

JRB TERRIGAL



Detailed Site Investigation

72-88 Water Street, Strathfield South, NSW

DOCUMENT CONTROL

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EXECUTIVE SUMMARY

JRB Terrigal ('the client') engaged EI Australia (EI) to complete a Detailed Site Investigation (DSI) of the property located at 72-88 Water Street, Strathfield South, NSW 2191 ('the site').

The site is located within the local government area (LGA) of Strathfield Council (**Figure 1, Appendix A**). It comprises nine cadastral lot allotments, identified as the following:

- Lot Z in Deposited Plan (DP) 402256 (72 Water Street);
- Lot A in DP 319354 (74 Water Street);
- Lot S in DP 394194 (76 Water Street);
- Lot C in DP 319354 (78 Water Street);
- Lot 6 in DP 253882 (80 Water Street);
- Lot 5 in DP 253882 (82 Water Street);
- Lot 4 in Deposited Plan 253882 (84 Water Street);
- Lot 3 in Deposited Plan 253882 (86 Water Street); and
- Lot 2 in Deposited Plan 253882 (88 Water Street).

The site covers a total area of approximately 5,088 m², as shown in **Figure 2, Appendix A** and, at the time of the investigation, was comprised of residential buildings.

The site was designated for redevelopment and environmental (contamination) investigation was required in support of the corresponding development application. This report enables the developer to meet its obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*.

Findings

The key findings of this DSI were as follows:

- Excluding any surface hardstand, the sub-surface of the site was observed to be comprised of a layer of clay filling (down to a maximum depth of 0.5 mBGL), overlying natural (residual) sandy clay, overlying (weathered) siltstone bedrock, the latter occurring from as shallow as 0.4 mBGL. The potential for the presence of acid sulfate soils was deemed very low.
- Groundwater was encountered from as shallow as 5.1 mBGL in the clay layer. The hydraulic gradient was inferred to be to a north easterly direction, towards Cooks Creek (approximately 320 m north), which eventually drains into the Botany Bay (approximately 5 km south-east). Based on the architectural plans provided, the development is expected to intersect groundwater.
- All laboratory analytical results for the selected (representative) soil samples were found to comply with the adopted criteria applicable for medium to high density residential land use.
- All laboratory analytical results for the groundwater samples were found to comply with the human health adopted criteria.
- The ecological adopted criteria were exceeded for aluminium, copper, nickel, zinc, manganese and toluene (**Section 8.3**).
- The reported concentrations of metals are considered to be indicative of background conditions, rather than site-specific impacts. In addition, local soils were not considered to be the source of metal impacts given the low levels reported in the analysed fill and natural soil samples.

- The exceedance in toluene was observed to be localised (BH5M), immediately before the downgradient boundary of the site and could be a result of cars historically being parked around that area.

Based on the findings of this DSI, and with consideration of the *Statement of Limitations* presented in **Section 11**, EI concludes that the site is suitable for the proposed mixed commercial / residential (apartment) use, subject to the implementation of the recommendations described in **Section 10**, in accordance with the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*.

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1. INTRODUCTION

1.1. Background and Purpose

JRB Terrigal ('the client') engaged EI Australia (EI) to complete a Detailed Site Investigation (DSI) of the property located at 72-88 Water Street, Strathfield South, NSW 2191 ('the site').

The site is located within the local government area (LGA) of Strathfield Council (**Figure 1, Appendix A**). It comprises of nine cadastral lot allotments, identified as the following:

- Lot Z in Deposited Plan (DP) 402256 (72 Water Street);
- Lot A in DP 319354 (74 Water Street);
- Lot S in DP 394194 (76 Water Street);
- Lot C in DP 319354 (78 Water Street);
- Lot 6 in DP 253882 (80 Water Street);
- Lot 5 in DP 253882 (82 Water Street);
- Lot 4 in Deposited Plan 253882 (84 Water Street);
- Lot 3 in Deposited Plan 253882 (86 Water Street); and
- Lot 2 in Deposited Plan 253882 (88 Water Street).

The site covers a total area of approximately 5,088 m², as shown in **Figure 2, Appendix A**) and, at the time of the investigation, was comprised of residential buildings.

The purpose of this investigation was to determine the environmental conditions (contamination status) of the site, in support of a planning proposal to NSW Department of Planning, Housing and Infrastructure. This DSI enables the developer to meet obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021* for the assessment and management of contaminated soil and/or groundwater, should these be identified.

This DSI was prepared in support of a State Significant Development Application (SSDA) for the construction and operation of proposed mixed-use development, reference SSD-85617958.

This report addresses the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, notably:

SEARs Requirement	Section of Report where response is provided
13. Contamination and Remediation 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.	Sections 4, 6, 7, 8, 9 and 10

1.2. Proposed Development

Based on the supplied plans (**Appendix C**), the proposed site development will involve the demolition of the existing structures, followed by the construction of a multi storey, mixed commercial / residential (apartment) building, overlying five levels of basement car park. Deep soil zones are proposed (setback areas), as follows:

- 4.5 m to the northern façade;
- 3 m to the eastern façade;
- 3 m to the southern façade; and
- 3 m to the western façade.

The ground floor elevations will range from 19.8 metres Australian Height Datum (mAHD) in the south-western corner to 14.1 mAHD in the north-eastern corner. The proposed Finished Floor Level (FFL) of 0.00 mAHD will require a Bulk Excavation Level (BEL) of -0.30 mAHD (approximately 15 to 20 mBGL). Deeper, localised excavations are expected for footings, service trenches, crane pads and lift over-run pits.

1.3. Project Objectives

The primary objectives of this detailed site investigation (DSI) were to:

- Quantitatively characterise any contamination by means of intrusive sampling and laboratory analysis for the contaminants of potential concern (COPCs);
- Provide a conclusion about the suitability of the site for its proposed land use; and
- Provide recommendations for the appropriate management of any contamination, if identified.

1.4. Scope of Works

To achieve the above objectives, the following scope of works was completed:

- A review of relevant (hydro)geological and soil landscape maps for the project area;
- A search for groundwater bores and its uses;
- A detailed site walkover inspection;
- A review of all previous reports issued for the site;
- Multiple level (fill and natural) soil sampling at thirteen borehole locations (HA1 – HA8, BH1M, BH2M, BH3, BH4 and BH5M), located in accessible parts of the site, in order to characterise *in situ* materials;
- Installation of three groundwater monitoring wells (BH1M, BH2M and BH5M) positioned up and downgradient of the site;
- Completion of a single groundwater monitoring event (GME), at the three newly installed monitoring wells to characterise local groundwater conditions; and
- Laboratory analysis of soil and groundwater samples for the COPCs identified in **Section 4.4.**

This report documents the desk study findings, the conceptual site model (CSM), data quality objectives, sampling methodologies and laboratory analytical results. It also provides a record of observations made during the site walkover inspections, borehole logs and a discussion of the results in regards to potential risks to human health and the environment. It concludes with a statement concerning the suitability of the site for the proposed (mixed use) development.

1.5. Regulatory Framework

The following regulatory framework and guidelines were considered during this investigation:

- *Contaminated Land Management Act 1997* (the CLM Act 1997);
- *Protection of the Environment Operations Act 1997* (the POEO Act 1997);

- *Environmental Planning and Assessment Act 1979* (the EP&A Act 1979);
- *State Environment Protection Policy (Resilience and Hazards) 2021*;
- *Strathfield Local Environmental Plan 2012*;
- NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme*;
- NSW EPA (2020) *Guidelines for Consultants Reporting on Contaminated Land*; and
- NEPC (2013) *National Environmental Protection (Assessment of Site Contamination) Amendment Measure 1999*;

2. SITE DESCRIPTION

2.1. Property Identification, Location and Physical Setting

The site identification details and associated information are presented in **Table 2-1**. The site locality and layout are illustrated in **Figures 1 and 2, Appendix A**.

Table 2-1 Site Identification, Location and Zoning

Attribute	Description
Street Address	72-88 Water Street, Belfield, NSW 2191.
Location	Site located 12km west of the Sydney CBD, within the local government area (LGA) of Strathfield Council. The site is comprised of nine detached properties, bound by residential properties (north and west), and mixed residential / commercial properties (south and east).
Geographical Coordinates	Northern-eastern corner of site (GDA2020-MGA56): ▪ Easting: 322823.761; ▪ Northing: 6247240.155. (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
Lot / DP and Site Area	▪ Lot Z in DP 402256: 72 Water Street ▸ Area approx. 636 m² ▪ Lot A in DP 319354: 74 Water Street ▸ Area approx. 544 m² ▪ Lot S in DP 394194: 76 Water Street ▸ Area approx. 513 m² ▪ Lot C in DP 319354: 78 Water Street ▸ Area approx. 509 m² ▪ Lot 6 in DP 253882: 80 Water Street ▸ Area approx. 605 m² ▪ Lot 5 in DP 253882: 82 Water Street ▸ Area approx. 593 m² ▪ Lot 4 in DP 253882: 84 Water Street ▸ Area approx. 561 m² ▪ Lot 3 in DP 253882: 86 Water Street ▸ Area approx. 562m² ▪ Lot 2 in DP 253882: 88 Water Street ▸ Area approx. 565 m² Total Area approx: 5,088 m ² (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
State Survey Marks	Four state survey marks are situated within close proximity to the site: ▪ SS64371 F: on the corner of Chatfield Avenue and Water Street (42 m north-east); ▪ SS206138 and PM43708 D: on the corner of Punchbowl Road and Burwood Road (82 m south) ▪ SS131360: on the corner of Punchbowl Road and Scott Street (129 m east) (Source: https://portal.spatial.nsw.gov.au/explorer/index.html)
Zoning	R3: Medium Density Residential (Strathfield Local Environmental Plan 2012)
Land Use	Residential
LGA	Strathfield Council

2.2. Local Land Use

The site is situated within an area of mixed (commercial / residential) uses. The local sensitive receptors within close proximity (<250 m) to the site are identified in **Table 2-2**.

Table 2-2 Local Land Use

Direction	Land Use Description	Sensitive Receptor
North	Pathway followed by residential properties, Bark Huts Reserve and Cooke Park	Building occupants / residents
South	Commercial and residential properties	Building occupants / residents
East	Residential properties	Building occupants / residents
West	Water Street followed by residential properties	Building occupants / residents

2.3. Regional Setting

Regional topography, geology and landscape information (EI, 2025b) is summarised in **Table 2-3**.

Table 2-3 Regional Setting Information

Attribute	Description
Topography	The site slopes slightly down towards the north. The topography of the area was gently undulating with low rounded hills and slopes of up to 5°. Site elevations range approximately between 15 and 20 mAHD. (Ref. https://www.mecone.com.au/mosaic/).
Drainage	Likely to be consistent with the general slope of the site. Stormwater expected to be collected in pits and piped to the municipal collection system.
Regional Geology (Source: MinView)	Reference to the <i>NSW Seamless Geology</i> by the Geological Survey of New South Wales, version 2.5 indicates the site is underlain by Ashfield Shale (Green shading) which typically consists of black to dark grey shale, siltstone and laminite. Approximately 100 m to the north of the site there is the Cooks River alluvial channel (Yellow shading) comprising Quaternary Alluvial soil deposits.
Soil Landscape	The Soil Conservation Service of NSW Soil Landscapes of the Sydney 1:100,000 Sheet (Chapman and Murphy, 1989) indicates that the site overlies the Blacktown (bt) residual landscape. According to Chapman and Murphy, this landscape type is characterised by local relief to 30 m and slopes usually <5%, broad rounded crests and ridges with gently inclined slopes. Soils are shallow to moderately deep (<100 cm) hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines.
Acid Sulfate Soil (ASS) Risk	The <i>Strathfield Local Environmental Plan 2012 - Acid Sulfate Soils Map</i> shows the site to be within a <i>Class 5</i> area with respect to ASS, with a <i>Class 4</i> area 35 m to the north. With reference to the <i>Botany Bay Acid Sulfate Soil Risk Map</i> (1:25,000 scale; Murphy, 1997), the site lies within the class description of 'Extremely Low' probability of occurrence. Based on the above, the potential for ASS presence on-site was considered to be low and further consideration, unwarranted.
Nearest Surface Water Feature	Cooks River is located approximately 320 m north and 345 m north-east of the site. This part of the river is a man-made stormwater channel, which flows to the south-east, draining into Botany Bay.
Groundwater Flow Direction	Inferred to be in a north-easterly direction, towards Cooks River.

2.4. Groundwater Bore Records and Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted in 22 August, 2025 through <https://realtime.data.watersnsw.com.au/water.stm>. The search revealed nine registered bores within a 500 m radius of the site (**Table 2-4**).

Table 2-4 Registered Groundwater Bores

Bore ID	Licence Status	Intended Purpose	Distance and Direction from the site
GW115026	Cancelled	Monitoring Bore	285m - South-west
GW115025	Cancelled	Monitoring Bore	275m - South-west
GW115027	Cancelled	Monitoring Bore	270m - South-west
GW115028	Cancelled	Monitoring Bore	255m - South-west
GW115056	Cancelled	Monitoring Bore	200m - South
GW115057	Cancelled	Monitoring Bore	200m - South
GW115058	Cancelled	Monitoring Bore	195m - South
GW115059	Cancelled	Monitoring Bore	170m - South
GW115060	Cancelled	Monitoring Bore	165 m - South

Based on the above information, cancelled licences indicate that the monitoring bores are not in operation and are not expected to be used for ongoing groundwater monitoring or extraction. It is likely these groundwater monitoring bores were used for short term investigations.

2.5. Site Walkover Inspection

Observations recorded during a site inspection are summarised below.

- The site is located in a mixed-use, residential and commercial area;
- At the time of the inspection, the site was comprised of nine individual residential units. The building structures of properties 72 and 84 were in good condition, the remainder of the property structures were in fair condition (i.e. not showing extreme signs of deterioration);
- Some sheds and stockpiles were observed, all of them situated upon hard standing;
- No visual signs of contamination were identified;
- There was no evidence that underground petroleum storage services (UPSS) or above ground tanks (ASTs) were ever present on the site; and
- There was no evidence of distress to the existing vegetation, suggesting that phytotoxicity is not a concern for the local soils.

3. PREVIOUS REPORTS

Previous investigations of the site were documented under the following reports:

- EI (2025) *Preliminary Site Investigation; 72-88 Water Street, Strathfield South, NSW*, EI Australia Report E26573.E01_Rev0, dated 2 September 2025;
- EI (2025a) *Hazardous Materials Survey; 72-88 Water Street, Strathfield South, NSW*, EI Australia Report E26573.E10.002_Rev1, dated 2 September 2025; and
- EI (2025b) *Geotechnical investigation; 72-88 Water Street, Strathfield South, NSW*, EI Australia Report E26573.G03_Rev1, dated 10 November 2025.

The information reported in EI (2025, 2025a, 2025b) relevant to this DSI is summarised in **Table 3-1**.

Table 3-1 Summary of Previous Investigations

Project Task	Description
EI (2025) Preliminary Site Investigation	
Objective	To evaluate the potential for site contamination.
Scope of Works	A desktop study (review of historical information) and walkover inspection.
Findings	• The review of Acid sulfate soil risk maps indicates that the potential for ASS presence on-site was considered to be low and further consideration was unwarranted. • During the site inspection on 14 November 2024, the site was comprised of nine residential properties. Two of the properties were in good condition, with the remaining seven in fair condition. These properties had bare ground in the front garden, pavements in poor condition (cracks) and noticeable weathering of exposed building fabrics. • No unusual odours were detected on the site at the time of the inspection. No visual signs of contamination were identified. • No evidence of an underground petroleum storage system (UPSS) was encountered on the site. • The site was free of statutory notices and licensing agreements issued under the Contaminated Land Management Act 1997 and Protection of the Environment Operations Act 1997. It was not included on the List of NSW Contaminated Sites Notified to the EPA. • The history review indicated that the site has been occupied by current structures at least since 1943, with the exception of 84 Water Street which in the 1990s had been demolished and replaced with an access road to neighbouring facilities. The surrounding areas have been used as a mix of residential, commercial and light industrial purposes at least since 1951. • The historical business activities search indicates that five sites located upgradient of the site (within a 250 m radius) have been historically used as either dry cleaners or service stations. • A Conceptual Site Model (CSM) prepared for the site established that there is a moderate potential for contamination to be present within the site area and that the risks posed to human and environmental receptors by the identified contaminant sources warrant further investigation.
EI (2025a) Hazardous Materials Survey	
Objective	This report presents the findings of a qualitative risk assessment of the hazardous

Project Task	Description
	materials detected within the buildings.
Findings	Identified hazardous building materials were ranked Priority 3 or Priority 4 (i.e. stable and posing low to negligible health risk under present conditions), excluding the corrugated ACM roofing and the potential fibrous residue within the gutter and down-pipe systems of the detached garage at 76 Water Street, which is ranked Priority 2 - Elevated Risk.
Additional comments	Numerous air conditioner units were attached to external walls of the site buildings. All casing and working components were metal, plastic and rubber. No fibrous lagging was observed. SMF insulation was expected to be associated with the flexible, metal foil ducts, however. All electrical wiring within the buildings appeared to be insulated by plastic or rubber materials / conduits (i.e. no asbestos-containing insulation materials were detected).
Recommendations	Adopting the precautionary principle, and in the absence of a more comprehensive sampling and analytical program, EI recommends that where there is doubt over the type of any building material, it should be assumed as containing a hazardous substance.
EI (2025b) Geotechnical Investigation	
Objective	This GI report has been prepared to provide geotechnical advice and recommendations to assist in the planning and preparation of designs for the proposed development.
Scope of Works	Drilling of five (5) boreholes across the site to depths between 20 m to 30 m Below Ground Levels (BGL). When auger drilling in soils, Standard Penetration Tests (SPT) were carried out at regular intervals to assess in-situ soil strengths/relative densities.
Findings	- Fill was observed from 0.4 to 0.6 mBGL consisting of garden and disturbed soils typically comprising silty, sandy and gravelly Clays of low plasticity, and often with roots and roof fibres. At BH5M there was a 90 mm thick concrete pavement overlying the fill. - Residual soils were observed from as shallow as 0.4 – 0.6 mBGL with a thickness of 4.7 – 6.6 m consisting of silty clay: Initially of high plasticity and firm to stiff consistency grading with increasing depth into a medium plasticity clay of very stiff to hard consistency, with then some bands of extremely weathered siltstone towards the bottom of the unit. - Extremely weathered to highly weathered siltstone bedrock from as shallow as 5.2 – 7.1 mBGL with a thickness of 1.2 – 3.4 m consisting of siltstone: Extremely to highly weathered, of variable strength ranging from very low to medium strength. In BH1M this unit included a 1.3 m thick band of extremely weathered siltstone/hard clay. - Slightly weathered and fresh siltstone and laminite bedrock from as shallow as 7.4 – 9.3 mBGL consisting of siltstone and laminate: Slightly Weathered and Fresh, with sandstone laminae and occasional thin sandstone bands. The Siltstone was assessed to be typically of medium strength, the Laminite was assessed to be typically of high strength. - Groundwater was encountered at varying depths ▶ BH1M: 10.5 mBGL ▶ BH2M: 5.7 mBGL ▶ BH5M: 5.1 mBGL

4. CONCEPTUAL SITE MODEL

In accordance with NEPC (2013) *Schedule B2 - Guideline on Site Characterisation*, EI developed a CSM assessing plausible linkages between potential contamination sources, migration pathways and receptors. The CSM enables the identification of data gaps in the existing site characterisation and thus requirements for future assessments. Potential contamination sources, exposure pathways and receptors that were considered relevant for this site are summarised below, along with a qualitative assessment of the potential risks posed by exposure pathways.

4.1. Summary of Site History

Based on the available historical information (**Section 3**), as well as the observations made during the walkover inspection (**Section 2.5**) and previous investigations (EI, 2025), the site has continuously been used for residential purposes since 1943 (at least), with the exception of 84 Water Street, which has been used for a mix of light commercial and residential purposes. The local surroundings also consisted of low density, residential and commercial properties during the surveyed period.

4.2. Subsurface Conditions

Beneath the surface (concrete) paving, the sub-surface consisted of sandy clay filling materials (<0.5 m thickness), overlying natural, silty clays and weathered siltstone bedrock. The potential presence of ASS was considered to be very low.

Groundwater was encountered from as shallow as 5.1 mBGL (EI, 2025b), within the clay layer. The hydraulic gradient was inferred to be to a north easterly direction, towards Cooks Creek (approximately 320 m north and 345 m north east of the site), which eventually drains into the Botany Bay (approximately 5 km south-east).

4.3. Potential Contamination Sources

The potential contamination sources for this site were considered to be:

- Imported fill materials of unknown origin and quality, used to grade and level the site;
- Previous on-site commercial activities (partially used for light commercial businesses);
- Weathering of hazardous building materials from site structures (including asbestos-containing materials (ACMs), lead-based paints and metallic objects);
- Leakage from vehicles in the parking (driveway) areas;
- Application of pesticides around building (footing) perimeters; and
- Migration of mobile contaminants from nearby commercial properties (e.g. the service station and dry cleaners within 250m distance from the site).

4.4. Contaminants of Potential Concern

Based on the sources listed in **Section 4.3**, the COPCs for the site were considered to be:

- Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
- Total Recoverable Hydrocarbons (TRH);
- Chlorinated Hydrocarbons (CHC);

- Monocyclic Aromatic Hydrocarbons Benzene, Toluene, Ethylbenzene, Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAH);
- Organochlorine and Organophosphorus Pesticides (OCP / OPP);
- Polychlorinated Biphenyls (PCB);
- Per- and Poly- Fluoroalkyl Substances (PFAS); and
- Asbestos.

Note: The potential for any other emerging chemical of concern to be present on-site, such as dioxins and organotin compounds, was considered to be very low (EI, 2025).

4.5. Potential Receptors

The following potential receptors of any site contamination were considered to be:

- Current site users / occupiers;
- On-site demolition, excavation and construction workers (during future redevelopment);
- Users of the adjacent land during the demolition, excavation and construction works;
- Future site users;
- Ecological receptors in areas of exposed soil / landscaping; and
- Local groundwater.

Conclusion

Refer to **Table 4-1** for an overview of the CSM (updated with the results of this DSI), identifying the potential contamination sources, exposure pathways and human and environmental receptors.

Table 4-1 Summary of the Conceptual Site Model

Potential Sources	Impacted Media	Contaminants of Potential Concern	Transport mechanisms	Exposure pathways	Potential receptors	Source-Pathway-Receptor (SPR) Linkages
Imported fill of unknown origin and quality	Soil	PM, TRH, BTEX, PAH, PCB, OCP, OPP and asbestos	Disturbance of surface and subsurface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact Inhalation of particulates	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	No. All samples collected during this DSI reported results below adopted criteria.
Previous on-site commercial activities			Atmospheric dispersion from soil to outdoor and indoor air spaces			
Hazardous building materials						
Application of pesticides		TRH, BTEX, PAH and PCB	Volatilisation of contamination from soil and diffusion to indoor air spaces.	Inhalation of vapours		
Leakage from cars in the car parking areas		PM, TRH, BTEX, PAH, PCB, OCP and OPP	Roots absorption of bioavailable compounds from impacted soils.	Biota uptake	Ecological receptors in areas of exposed soil/landscaping	
Migration of contaminants from upgradient sources	Groundwater	TRH, BTEX, PAH and CHC	Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite)	Inhalation of vapours	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	No. All samples collected during this DSI reported results below the human health adopted criteria.
		PM, TRH, BTEX, PAH, CHC, OCP, OPP and PFAS	Disturbance of surface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact	Demolition / construction workers Future intrusive workers	
			Migration of dissolved phase impacts in groundwater via diffusion and advection	Biota uptake	Cooks River	
						Potentially complete. Cooks River is a man-made canal located approximately 320 m downgradient of the site. Metal and toluene ecological exceedances were reported during this DSI.

5. METHODOLOGY

5.1. Sampling, Analytical and Quality Plan

A sampling, analytical and quality plan (SAQP) was prepared before the start of this investigation, to ensure that the data collected during this DSI were representative, providing a robust basis for land suitability decisions. The SAQP for this investigation included description of the following:

- Data quality objectives (DQOs), restating the objective of the investigation, then articulating the perceived goals of the sampling and analysis components, as well as the rationale behind their conception and means of their attainment;
- A quality assurance / quality control (QA/QC) program specific for the data set; defining the
- Data quality indicators (DQIs), corresponding to the QC measures integrated into the sampling and analysis components of the investigation phase;
- Sampling methodology, including description of the (intended) sampling points, the media sampled at each point and details of any in-field screening;
- Procedures for sample handling, preservation and storage; and
- Identification of the required laboratory analyses.

5.2. Data Quality Objectives

In accordance with the NEPC (2013) *Schedule B2 Guideline on Site Characterisation*, the USEPA (2006) *Data Quality Assessment* and NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, DQOs were developed by the EI investigation team, following the seven step process endorsed by NEPC (2013) (**Table 5-1**). The appropriate levels of data quantity and quality needed for the specific requirements of the project were thereby established.

Table 5-1 Summary of Project Data Quality Objectives

DQO Step	Details
1. State the Problem Summarise the contamination problem that required environmental data.	The site was designated for redevelopment, involving the demolition of the existing structures construction of a six-storey, mixed commercial / residential (apartment) building, overlying five levels of basement. (Section 1.2). Based on the previous reporting (Section 3), soil characterisation was deemed required, in support of the development application to Strathfield Council and enable the developer to meet its obligations under <i>State Environmental Planning Policy 2021</i> and the <i>Contaminated Land Management Act 1997</i>.
2. Identify the Goal of the Study (Identify the decisions) Identify the decisions that needed to be made on the contamination problem and the collated data.	Based on the objectives outlined in Section 1.3, the decisions for this DSI concerned the following questions: - Has the nature, extent and source of any soil and/or groundwater impacts onsite been defined? - What impact do the local (hydro) geological conditions have on the fate and transport of any contaminants that may be present? - Does the level of impact coupled with the fate and transport of potential contaminants represent an unacceptable risk to identified human and/or environmental receptors on- or off- site? - Does the collected data provide sufficient information to allow the selection and design of an appropriate remedial strategy, if necessary? - If the data does not provide sufficient information, what data gaps require closure to enable the suitability of the site to be determined, or selection and design of an appropriate remedial strategy?
3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision relating to the contamination status of the site.	Inputs to the decision making process included: - The proposed development plans and land use; - Previous investigations (Section 3); - National and NSW EPA guidelines endorsed under the <i>NSW Contaminated Land Management Act 1997</i>; - Observations obtained from an intrusive investigation in locations and to depths deemed appropriate for assessment purposes; and - Laboratory analysis of selected samples for the COPCs. At completion of the end of this DSI, a decision had to be made regarding whether the environmental conditions were suitable for the proposed development, or if additional assessment / remedial works were required to make the site suitable.
4. Define the Boundaries of the Study Specify the spatial and temporal limits to the investigation.	Lateral – The cadastral boundaries of the site. Vertical – From the ground surface, down to 30.50 mBGL of the western portion of the site. Temporal – Results can be considered valid on the day of data / sample collection and remain valid as long as no changes occur on site or contamination (if present) does not migrate on site or on to the site from off-site sources.
5. Develop the Analytic Approach (Develop a decision rule) Specify the decision rule, in the form of a simple statement that determined a logical basis for the conclusion of the investigation.	Laboratory analytical results were assessed against the adopted investigation and waste criteria. Laboratory analytical results were accepted if: - All contracted laboratories were accredited by NATA for the analyses undertaken; and - Laboratory QA/QC protocols and results complied with NEPC (2013) requirements.

DQO Step	Details
6. Specify Acceptance Criteria (Specify limits on decision errors) Specify the acceptable limits on decision errors, which were established (defined) by the inherent uncertainties in the data.	Specific limits for this project were in accordance with NEPC and NSW EPA guidance, as well as appropriate indicators of data quality and standard procedures for field sampling and handling. This included the following points to quantify tolerable limits: ▪ Acceptance of site suitability was based on the probability that: › The 95% upper confidence limit (UCL) of the arithmetic average of the data set satisfied the given site criterion (thus, a limit on the decision error was 5% that a conclusive statement may be incorrect); › The standard deviation of the data set was less than 50% of the corresponding criterion; and › No single result exceeded the criterion by 250% or more. ▪ Soil concentrations for chemicals of concern that were below the criteria were treated as acceptable and indicative of suitability for the proposed land use(s).
7. Develop the Plan for Obtaining Data (Optimise the study design) Identify the most resource-effective sampling and analysis design, to satisfy the DQOs of the investigation.	In order to identify the most resource-effective sampling and analysis design and satisfy the DQOs: ▪ The SAQP was devised prior to commencement of the field work; ▪ Instructions were provided to guide personnel in the required fieldwork activities; ▪ Advancing 13 boreholes (HA1 – HA8 and BH1M, BH2M, BH3, BH4 and BH5M) at accessible areas of the site; ▪ Multiple level soil sampling within fill and natural soils; ▪ Sampling of groundwater wells from 3 newly installed wells; ▪ Laboratory analysis of selected soil and groundwater samples for the COPCs, and ▪ Assessment of the results against applicable guidelines. All field works were performed in accordance with relevant NSW EPA guidelines and EI standard operating procedures (SOPs).

5.3. QA/QC Program

A QA/QC program was integrated into this DSI, the goal being to validate that the sample data were usable for the risk assessment and confirmation of site suitability. This program, with all applicable data quality indicators (DQIs), is summarised in **Table 5-2**. An assessment of the QA/QC program is presented in **Section 6** and **Appendix H**.

Table 5-2 Summary of DQIs

QA/QC Component	Description and DQIs
Precision A quantitative measure of the variability (or reproducibility) of data	Data precision was assessed by reviewing the performance of blind field and laboratory duplicate sample sets, through calculation of relative percentage differences (RPDs). Data precision was deemed acceptable if RPDs were less than 30%. RPDs exceeding this range were considered acceptable if: - Results were less than 10 times the LOR; - Results were less than 20 times the LOR and RPD was less than 50%; or - Heterogeneous materials or volatile compounds were encountered.
Accuracy A quantitative measure of the closeness of reported data to the "true" value	Data accuracy was assessed through the analysis of: - Split field duplicate sample sets (ideally <30% RPD); - Equipment rinsate, field trip and laboratory method blanks, analysed for the identified contaminants of concern (ideally <LOR); - Trip and matrix spikes (70-130% recovery); and - Laboratory control samples (ideally <30% RPD; 70-130% recovery).
Representativeness The confidence that data are representative of each medium sampled	To ensure the data were representative of conditions encountered in the field: - Blank samples were run in parallel with field samples, to confirm no unacceptable instances of contamination or laboratory artefacts; - Review of RPDs for field and laboratory duplicates provided an indication that the samples were generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities; and - Standard techniques for sample collection, handling and preservation were adopted, to ensure minimal opportunity for interference or degradation (e.g. volatile loss due to incorrect preservation / transport methods).
Completeness The amount of useable data from a data collection activity	Analytical data acquired during the investigation were deemed complete upon confirmation that: - SOPs for sampling were adhered to; - All chain-of-custody (COC) documentation was properly completed; and - Laboratory analytical reports were final and with results for all analyses prescribed on the corresponding COC form(s).
Comparability The confidence that data are equivalent for each sampling event	Issues of comparability were reduced by adherence to SOPs, which were based on NSW EPA-endorsed guidelines, and the employment of experienced field personnel and NATA-accredited laboratories.

5.4. Sampling Rationale

With reference to the CSM (**Section 4**) and DQOs (**Section 5.2**), the field works were planned in accordance with the following rationale:

- Multiple level (fill and natural) soil sampling at thirteen borehole locations (HA1 – HA8, BH1M, BH2M, BH3, BH4 and BH5M), located in accessible parts of the site, in order to characterise *in situ* materials;
- Installation of three groundwater monitoring wells (BH1M, BH2M and BH5M) positioned hydraulically up and down gradient at the site;
- Completion of a single GME, at the three newly installed monitoring wells to characterise local groundwater conditions; and

- Laboratory analysis of soil and groundwater samples for the COPCs identified in **Section 4.4**.

The selection of the sampling points was constrained by the existing buildings (all actively tenanted), which limited the access to all areas of the site.

5.5. Assessment Criteria

The criteria adopted for this DSI were selected from available published guidelines that are endorsed by national or state regulatory authorities, with due consideration of the exposure scenario that is expected for the site, the likely exposure pathways, and the identified potential receptors. The adopted criteria, based on the proposed land use (**Section 1.2**), are defined in **Table 5-3**.

For the purposes of this DSI, the adopted soil criteria are referred to as the *Soil Investigation Levels* (SILs) and the adopted groundwater criteria are referred to as *Groundwater Investigation Levels* (GILs). SILs and GILs are presented alongside the analytical results in the corresponding summary tables (**Table 1** and **Table 2, Appendix B**).

Table 5-3 Adopted Investigation Levels

Medium	Adopted Guidelines	Rationale
Soil	NEPC (2013) HILs, HSLs, EILs, ESLs and Management Limits for TRHs	Soil Health-based Investigation Levels (HILs) NEPC (2013) <i>HIL-B</i> thresholds for residential settings with minimal opportunities for soil access. Soil Health-based Screening Levels (HSLs) NEPC (2013) <i>HSL-A&B</i> thresholds for vapour intrusion at low to high density residential sites. Coarse grained criteria were applied, being the most conservative of the material types. Asbestos: For asbestos in soil, the following criteria were applicable: ▪ No visible asbestos on surfaces in all areas of the site; ▪ No asbestos detected in any soil samples. Ecological Investigation / Screening Levels (EILs / ESLs) NEPC (2013) EILs/ESLs for urban residential and public open space settings were adopted, to assess the potential impact to proposed landscaping areas, where plants could be exposed to soils and where precipitation may result in subsurface infiltration and resulting leaching of soil impacts to groundwater. Management Limits for Petroleum Hydrocarbons Sample results were assessed against the NEPC (2013) <i>Management Limits</i> for the F1-F4 TRH fractions, to assess propensity for phase-separated hydrocarbons, fire and explosive hazards and adverse effects on buried infrastructure.
	CRC CARE (2017) high reliability ecological criteria	High reliability ecological criterion for benzo(α)pyrene The CRC Care (2017) high reliability ecological guideline for benzo(α)pyrene in urban residential and public open space settings was adopted to assess protection of terrestrial ecosystems.

Medium	Adopted Guidelines	Rationale
Groundwater	ANZG (2018) GILs for Fresh Waters and NEPC (2013) Groundwater HSLs	Groundwater Investigation Levels (GILs) for Fresh Waters ANZG (2018) provides GILs for typical, slightly-moderately disturbed aquatic ecosystems, including Trigger Values for 95% level of protection of aquatic ecosystems; however, the 99% values were applied for the bio-accumulative analytes (cadmium and mercury). Due to the ANZG (2018) criteria for petroleum hydrocarbons being below the laboratory limit of reporting, the PQL for each TRH fraction was adopted as the GIL for aquatic ecosystems, as per the guidance provided in DEC (2007) <i>Guidelines for the Assessment and Management of Groundwater Contamination</i>. Health-based Screening Levels (HSLs) The NEPC (2013) groundwater HSLs for vapour intrusion were used to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene impacts. The <i>HSL-A&B</i> thresholds for low to high density residential settings were applied. Fill is predominantly sand. Coarse Grained soil criteria were applied, being the most conservative of the material types.
	NHMRC (2008) Recreational Criteria	Recreational Criteria NHMRC (2008) Recreational Criteria were adopted, equivalent to the lowest NHMRC (2025) Drinking Water threshold, multiplied by a factor of 10.
	PFAS National Environmental Management Plan (HEPA, 2025) Freshwater Criteria	Freshwater criteria HEPA (2025) Freshwater criteria for PFAS was adopted at 95% protection level for slightly to moderately disturbed systems.

5.6. Soil Sampling Methodology

The soil sampling methodology used during this DSI is described in **Table 5-4**. Sampling locations are illustrated in **Figure 2, Appendix A**.

Table 5-4 Summary of Soil Sampling Methodology

Activity/Item	Details
Fieldwork	Conducted on 30 June 2025 and 8 July 2025, comprising thirteen borehole locations across accessible parts of the site. Prior to drilling, locations were screened by a contracted service locator, with assistance from Before-You-Dig-Australia (BYDA) plans.
Drilling Method	Boreholes BH1M, BH2M, BH3, BH4 and BH105M were drilled using a mechanical rig, fitted with solid stem augers. Boreholes HA1 – HA8 were constructed using hand auger, to a maximum depth of 0.8 mBGL. Borehole logs are presented in Appendix D.
Soil Logging	Drilled / examined soils were logged in the field in accordance with Australian Standard AS1726-2017. Soil was evaluated on a qualitative basis for visual and olfactory signs of contamination. Soil descriptions are included in the borehole logs (Appendix D).
Soil Sampling	Soil samples were collected by dry grab method from the auger flights / bucket (the sampler wearing dedicated nitrile gloves) and placed into laboratory-supplied, glass jars and zip-lock, plastic bags (the latter for asbestos samples). Empty zip lock bags were used to measure the presence of VOCs using a Photoionization Detector (PID), as a QAQC procedure. Blind and split field duplicates for QC assessment were prepared by collecting a bulk amount of soil and dividing (post mixing) into three separate glass jars. At each location, aliquots of soil were placed into separate zip-lock bags for laboratory asbestos analysis.
Decontamination	Nitrile sampling gloves were replaced between each sampling location.

Activity/Item	Details
	The augers were cleaned of all residual soil between each borehole location by washing with a mixture of Alconox and potable water (1/20) until free of all residual materials, then rinsed with water.
Sample Preservation and Transport	Sealed sample containers were stored in an insulated chilled chest (with frozen ice packs), whilst on-site and in transit to the contracted laboratories. Chilled sample chests were transported to the primary laboratory (SGS Australia Pty Ltd (SGS)) using COC procedures. Signed COC certificates and sample receipt advice (SRA) were provided by SGS for confirmation purposes (Appendix F). Split (inter-laboratory) soil field duplicates were submitted to Envirolab Services Pty Ltd (Envirolab; the secondary laboratory) under strict COC conditions. Signed COC certificates and SRA were provided by Envirolab for confirmation purposes (Appendix F).
Laboratory Analysis and Quality Control	Soil samples were analysed by SGS and Envirolab for the COPCs. All samples were analysed within the required holding period, as documented in the corresponding laboratory reports (Appendix G). In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC analyses comprised one blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared trip spike soil sample and a laboratory-prepared trip blank soil sample, all analysed by SGS.

5.7. Groundwater Sampling Methodology

The groundwater sampling methodology used during this DSI is described in **Table 5-5**. The sampling location is illustrated in **Figure 2, Appendix A**.

Table 5-5 Summary of Groundwater Sampling Methodology

Activity/Item	Details
Fieldwork	Three groundwater monitoring wells (BH1M, BH2M and BH5M) were installed on 08 July 2025. The newly installed wells were subsequently developed to remove any additional water and/or seepage present after well construction. A single GME, involving water level gauging, well purging, measurement of physiochemical parameters and groundwater sampling was conducted on 25 July 2025 (7 days following well construction and development).
Well Construction	Drilled by GeoSense Drilling Pty Ltd using a mechanical solid flight auger drilling rig, three bores were converted to groundwater monitoring wells as follows: ▪ BH1M: constructed to 17.3 mBGL ; ▪ BH2M: constructed to 17.9 mBGL ; and ▪ BH5M: constructed to 18.1 mBGL . Well construction details are presented in the detailed log attached in Appendix D.
Well Construction Standards	Well construction was in general accordance with the standards described in NUDLC (2020) and involved the following: ▪ Ø 50 mm, Class 18 uPVC, threaded, machine-slotted screen and casing, with slotted intervals in shallow wells set to screen to at least 500 mm above the standing water level to allow sampling of phase-separated hydrocarbon product, if present; ▪ Base and top of each well was sealed with a uPVC cap; ▪ Annular, graded sand filter was used to approximately 300 mm above top of screen interval; ▪ Granular bentonite was applied above annular filter to seal the screened interval; ▪ Drill cuttings were used to backfill the bore annulus to just below ground level; and Surface completion comprised of a stick-up section of pipe, a plastic J-cap closing the well and a gatic cover at ground level.
Well Development	Well development was conducted immediately after installation. The development process involved the removal of water and accumulated sediment within dull length of the water column using a dedicated, High Density Polyethylene (HDPE) disposable

Activity/Item	Details
	bailer. Bailing was continued until no further reduction in suspended sediment was observed (i.e. after removal of several well volumes of water).
Well Gauging	Monitoring wells were gauged to determine standing water levels (SWL) prior to groundwater sampling. Gauging was conducted with a water/oil interface probe. At the commencement of the GME and immediately following the removal of the well cap at each well location, well headspaces were checked for the presence of accumulated VOCs using a calibrated PID.
Well Purging, Physiochemical Parameter Measurements and Sampling	Groundwater was purged and sampled by a low-flow / minimal draw-down method, using a peristaltic pump and micropurge with dedicated tubing. During the purging process, water was continuously measured for field parameters (temperature (T), electrical conductivity (EC), reduction-oxidation potential (Redox), dissolved oxygen (DO) and pH) using a Hanna Multi Parameter 9829 positioned within an open flow-through cell. Once water quality parameters stabilised (i.e. within $\pm 10\%$ for DO, $\pm 3\%$ for EC, ± 0.05 for pH, $\pm 0.2^\circ$ for temperature and $\pm 20\text{mV}$ for redox), groundwater sampling was undertaken, by diverting the outlet of the sampling pump (immediately before the flow cell) to the sampling vials and bottles. Refer to Appendix E for all field data sheets
Decontamination Procedure	Sampling equipment (interface probe and water quality kit probes) were decontaminated between uses by washing in a solution of potable water and <i>Alconox</i> ®, then rinsed with potable water. Decontamination was not required for the sampling pump, as dedicated disposal bladders and tubing were used for sampling at each individual well. Dedicated gloves were used for the collection of each sample.
Sample Preservation and Transport	Sample containers were supplied by the laboratory with the following preservatives: - One, 500 ml amber glass, acid-washed and solvent-rinsed bottle; - Two, 40ml glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; - One, 250 mL, HDPE bottle, pre-preserved with dilute nitric acid (1 mL); and Samples for metals analysis were field-filtered using 0.45 μm pore-size filters. All containers were filled with sample to the brim then capped and stored in ice-filled chests, until completion of the fieldwork and during sample transit to the laboratory
Quality Control and Laboratory Analysis	Groundwater samples were analysed by SGS and Envirolab for the COPCs. All samples were analysed within the required holding period, as documented in the corresponding laboratory reports (Appendix G). In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC analyses comprised a blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared, trip spike water sample and a laboratory-prepared, trip blank water sample, all analysed by SGS. (Appendix I).

6. DATA QUALITY ASSESSMENT

The assessment of data quality is defined as the scientific and statistical evaluation of environmental results to determine if they meet the objectives of the project (USEPA, 2006). For this DSI, data quality assessment involved an evaluation of the compliance of the field (sampling) and laboratory procedures with established protocols, as well as the accuracy and precision of the associated results from the quality control measures. The findings are summarised in **Table 6-1** and discussed in detail in **Appendix H**.

In summary, the overall quality of the analytical data from this DSI was considered to be of an acceptable standard for interpretive use and evaluate site suitability.

Table 6-1 Quality Control Process

Stage	Control	Conformance [Yes, Part, No]	Report Section(s)
Preliminaries	DQOs and DQIs established	Yes	Sections 5.2 and 5.3
Field Work	Suitable documentation of fieldwork, including borehole logs and field notes.	Yes	Appendices D and E
Sampling Plan	Use of relevant and appropriate sampling plan	Yes	Section 5.4
	All media sampled and duplicates collected	Yes	Appendices D-H
	Use of appropriate sampling methods	Yes	Sections 5.6 and 5.7
	Selection of soil samples according to field PID readings (where VOCs are present)	Yes	Section 5.6 and 7.1
	Preservation and storage of samples upon collection and during transport to laboratory	Yes	Sections 5.6 and 5.7
	Appropriate field rinsate and trip blanks taken	Yes	Appendices F-H
	Completed field and analytical laboratory sample COC procedures and documentation	Yes	Appendices F-H
Laboratory	Sample holding times within acceptable limits	Yes	Appendices G-I
	Use of appropriate analytical procedures and NATA-accredited laboratories	Yes	Appendices G-I
	LOR low enough to meet adopted criteria	Yes	Appendices G-I
	Laboratory blanks	Yes	Appendices G-I
	Laboratory duplicates	Part	Appendices G-I
	Matrix spikes	Part	Appendices G-I
	Surrogates	Yes	Appendices G-I
	Analytical results for replicates, including field and laboratory duplicates, expressed as RPD	Yes	Appendices G-I
Reporting	Checking for the occurrence of apparently unusual or anomalous results (e.g. laboratory results that appear to be inconsistent with field observations or measurements)	Yes	Appendices B, D, E
	Report reviewed by senior staff to confirm project meets objective, SAQP and NSW EPA guidelines	Yes	Document Control

7. RESULTS

7.1. Soil

Subsurface Conditions

Based on current borehole logs (and excluding any hardstand), the sub-surface of the site was comprised of a layer of clay filling (down to a maximum depth of 0.5mBGL), overlying natural (residual) sandy clay, overlying (weathered) siltstone bedrock, the latter occurring from as shallow as 0.4 mBGL. The potential for the presence of ASS on the site was deemed very low. More description details are provided in **Table 7-1** and borehole logs are presented in **Appendix D**.

Table 7-1 Generalised Subsurface Profile

Layer	Description	Minimum - Maximum Depth (mBGL)
Fill	Silty CLAY, low plasticity, brown, with rootlets, dry, no odour; Silty CLAY, low plasticity, brown, with rootlets, angular to sub angular gravels, dry, no odour; Sandy CLAY, low plasticity, dark grey, fine to medium grained sand, trace of root fibres; Sandy CLAY, low plasticity, dark grey to brown, fine to medium grained sand, trace of fine to medium grained sub rounded ironstone and igneous gravel; Gravelly CLAY, low plasticity, dark grey to brown, fine to medium grained ironstone gravel, trace of root fibres	0 – 0.6
Natural (Residual) Soil	Silty CLAY, medium to high plasticity, brown and red to brown, with traces of fine to medium grained sub rounded ironstone gravels and root fibres Silty CLAY, high plasticity, light gray CLAY, low plasticity, orange, dry, no odour	0.3 – 7.1
Bedrock	SILTSTONE: dark grey with iron indurated bands, distinctly weathered, very low strength	7.1 – 30+

Field Observations

Soil samples were collected from the boreholes at various depths ranging between 0.2 and 0.8 mBGL. All examined soils were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, asbestos fragments, ash, and charcoal), with the following observations noted:

- No suspicious odour was detected in any of the examined soils.
- No staining was observed on any of the examined soils.
- No visible fragments of potential ACM were observed in any of the examined soils.
- No ash was observed in any of the examined soils.
- No visible evidence of potential or actual ASS (such as pale yellow deposits/coatings of jarosite) was observed during the drilling and sampling works.

- Groundwater inflow was encountered at a minimum depth of 2 mBGL at BH2M
- Photo-ionisation Detector (PID) analysis of soil samples did not exceed 0.8 ppm.

Groundwater field results

Three groundwater monitoring wells (BH1M, BH2M and BH3M) were installed on 4 July 2025. Construction details for the installed groundwater monitoring are summarised in **Table 7-2**.

Table 7-2 Monitoring Well Construction Details

Well ID	Well Depth (mBGL)	Well Stick-Up (mBGL)	Screen Interval (mBGL)	Lithology Screened
BH1M	16.30	-0.1	11.28 - 17.28	Siltstone
BH2M	12.80	-0.1	11.90 - 17.90	Siltstone
BH5M	13.12	-0.1	18.10 - 12.10	Siltstone

A GME was conducted on 25 July 2025. Field data were recorded before sampling, as presented in **Table 7-3**. Field data sheets are attached in **Appendix E**. Samples were evaluated on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater was found to be slightly grey in colour, with low to medium turbidity;
- No suspicious odours were detected in any of the groundwater wells;
- No sheen was observed on the sampled groundwater; and
- Groundwater conditions were reported as slightly acidic (pH: 4.93 to 6.49), well oxygenated (DO > 4.12 mg/L), oxidising (ORP > 0 mV) and brackish (EC > 1,600 µS/cm).

Table 7-3 Groundwater Field Data

Well	SWL (mBTOC ¹)	DO (mg/L)	pH*	EC (µS/cm)	Temperature (°C)	ORP ² (mV)
BH1M	10.49	6.33	5.31	6,238	16.52	350.2
BH2M	5.86	4.12	6.49	8,501	16.32	780.0
BH5M	5.27	7.87	4.93	5,723	18.33	406.5

¹ mBTOC – meters below top of casing.

² ORP readings were adjusted to Standard Hydrogen Electrode by adding field electrode potential (205 mV).

Laboratory Analytical Results

A summary of the laboratory analytical results for the analysed (representative) soil samples is presented in **Table 7-4**. More detailed tabulation is presented in **Table 1, Appendix B**.

All results were found to comply with the adopted SILs.

Table 7-4 Summary of Soil Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
Priority Metals				
20	Arsenic	2	7	None
20	Cadmium	<0.3	1.0	None
20	Chromium	5.6	28	None
20	Copper	<0.5	67	None

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
20	Lead	11	260	None
20	Mercury	<0.05	0.12	None
20	Nickel	<0.5	4.9	None
20	Zinc	4.2	970	None
PAHs				
20	Naphthalene	<0.3	0.6	None
20	Benzo(α)pyrene	<0.1	0.4	None
20	Carcinogenic PAHs (as B(α)P TEQ)	<0.3	0.4	None
20	Total PAHs	<0.8	2.9	None
BTEX and TRHs				
20	Benzene	<0.1	<0.1	None
20	Toluene	<0.1	<0.1	None
20	Ethyl benzene	<0.1	<0.1	None
20	Total Xylenes	<0.3	<0.3	None
20	F1 – TRHs	<25	<25	None
20	F2 – TRHs	<25	<25	None
20	F3 – TRHs	<90	130	None
20	F4 – TRHs	<120	<120	None
Pesticides				
13	Total OCPs	<0.1	0.2	None
13	Total OPPs	<1.7	<1.7	None
PCBs				
13	Total PCBs	<0.1	<0.1	None
Asbestos				
13	Asbestos	Not detected	Not detected	None

7.2. Groundwater

A summary of the groundwater analytical results is presented in **Table 7-5**. Detailed tabulation of the groundwater analytical results, showing the concentrations for individual samples alongside the adopted GILs, is presented in **Table 2, Appendix B**. Additional analytes not listed in **Section 4.4** were opportunistically included in this investigation, to inform future dewatering management works, as recommended by DPE (2022).

Table 7-5 Summary of Groundwater Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding SILs
Metals				
3	Aluminium	6	700	ANZG (2018): 5.5 µg/L (pH >6.5) BH1M (2,140µg/L) BH5M (700 µg/L)

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding SILs
3	Arsenic	<1	<1	None
3	Cadmium	<0.1	0.2	None
3	Chromium (Total)	<1	2	None
3	Copper	<1	7	ANZG (2018): 1.4 µg/L BH2M (2 µg/L) BH5M (7 µg/L)
3	Lead	<1	<1	None
3	Mercury	<0.1	<0.1	None
3	Nickel	27	100	ANZG (2018): 11 µg/L BH1M (32 µg/L) BH2M (100 µg/L) BH5M (27 µg/L)
3	Zinc	23	92	ANZG (2018): 8 µg/L BH1M (31 µg/L) BH2M (23 µg/L) BH5M (92 µg/L)
1	Antimony*	<1	<1	None
1	Barium*	100	100	None
1	Beryllium*	<1	<1	None
1	Boron*	35	35	None
1	Cobalt*	10	10	None
1	Iron*	18,000	18,000	None
1	Manganese*	2,000	2,000	ANZG (2018): 1,900 µg/L BH1M (2,000 µg/L)
1	Molybdenum*	2	2	None
1	Selenium*	<1	<1	None
1	Silver*	<1	<1	None
1	Strontium*	400	400	None
1	Uranium*	<1	<1	None
1	Vanadium*	<1	<1	None
PAH				
3	Naphthalene	<0.1	<0.1	None
3	Benzo(a)pyrene	<0.1	<0.1	None
3	Total PAH	<1	<1	None
BTEX				
3	Benzene	<0.5	<0.5	None
3	Toluene	<0.5	450	ANZG (2018): 8 µg/L BH1M (450 µg/L)
3	Ethyl benzene	<0.5	<0.5	None

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding SILs
3	o/p-Xylene	<1	<1	None
3	m-Xylene	<0.5	<0.5	None
TRH				
3	TRH - F1	<50	<50	None
3	TRH - F2	<60	~~120~~ <60~	None
3	TRH - F3	<500	<500	None
3	TRH - F4	<500	<500	None
PFAS				
1	PFOA	<0.01	<0.01	None
1	PFOS	<0.01	<0.01	None
Other VOCs				
2	Chloroform (THM)	<0.5	0.5	None
2	cis-1,4-dichloro-2-butene	<1	2	None
2	Carbon Disulfide	<2	2	None
2	1,2,4-trimethylbenzene	<0.5	<0.5	None
2	Trichloroethene (TCE)	<0.5	<0.5	None
2	cis-1,2-dichloroethene	<0.5	<0.5	None
2	Total VOC	<10	470	None
Other Parameters				
3	Total Phenols*	<50	<50	None
2	Total Cyanide*	<4	<4	None
1	Bicarbonate (mg/L)*	230	230	None
1	Total Alkalinity(mg/L)*	230	230	None
1	ORP*	387	387	None
1	Dissolved Oxygen (DO)*	2.7	2.7	None
1	Total Organic Carbon*	19	19	None
1	Sodium Absorption Ration (SAR)*	24.6	24.6	None
1	Fluoride*	0.4	0.4	None
1	Chloride (mg/L)*	2,100	2,100	None
1	Sulfate CO4 (mg/L)*	350	350	None
1	Bromide*	1.3	1.3	None
1	Calcium (mg/L)*	37	37	None
1	Magnesium (mg/L)*	91	91	None
1	Sodium (mg/L)*	1,200	1,200	None

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding SILs
1	Potassium (mg/L)*	16	16	None
1	Ammonia*	0.61	0.61	None
1	Total Nitrogen*	11	11	None
1	Total Phosphorous*	9.5	9.5	None
1	Ammonia Nitrogen, NH ₃ as N*	610	610	None

¹ Result – indicates values superseded by more recent analytical results

² ~ indicates result after silica gel clean up.

³ * indicates parameters analysed as part of DPE (2022).

8. SITE CHARACTERISATION

8.1. Subsurface Conditions

Based on current borehole logs (**Appendix D**), the sub-surface of the site (excluding any hardstand) was comprised of a layer of clay filling (down to a maximum depth of 0.5 mBGL), overlying natural (residual) sandy clay (down to a maximum depth of, overlying (weathered) siltstone bedrock, the latter occurring from as shallow as 0.4 mBGL. The potential for the presence of ASS on the site was deemed very low.

8.2. Soil Impacts

All laboratory analytical results for the selected (representative) soil samples were found to comply with the adopted criteria applicable for medium to high density residential land use.

It is noted that although there is one value exceeding the EIL and ESL criteria at BH2, the sample location is not located in the setback area where deep soil zones will be involved. As such, the EIL and ESL criteria do not apply to HA2.

8.3. Groundwater Impacts

Based on the GME conducted on 25 July 2025, the depth to groundwater was found to be ranging between 5.27 and 10.49 mBGL (36.92 and 47.38 mAHD), with the inferred hydraulic gradient being north-easterly, flowing towards Cooks River

Groundwater conditions were reported as slightly acidic (pH: 4.93 to 6.49), well oxygenated (DO > 4.12 mg/L), oxidising (ORP > 0 mV) and brackish (EC > 1,600 µS/cm).

A detection of TRH F2 (120 µg/L) was reported in groundwater sample BH5M. It is unclear whether caused by petroleum hydrocarbon or biogenic sources. A silica gel clean up was completed, as an additional analysis, to remove naturally occurring compounds that could be the cause of the TRH concentrations. Following the silica gel clean up, the TRH F2 in BH5M returned a result below the practical quantification limit, indicating that the reported TRH F2 detected is unlikely to be related to petroleum hydrocarbons sources.

Laboratory analytical results for the three representative groundwater samples were found to comply with the adopted GILs, except for the exceedances noted below:

Priority Metals

Priority metals (aluminium, nickel, zinc and manganese) were detected in groundwater at levels above the adopted criteria applicable for fresh waters.

- Aluminium: exceeds the criteria (55 µg/L) at BH1M (140 µg/L) and BH5M (700 µg/L);
- Copper: exceeds the criteria (1.4 µg/L) at BH2M (2 µg/L) and BH5M (7 µg/L)
- Nickel: exceeds the criteria (11 µg/L) at BH1M (32 µg/L), BH2M (100 µg/L) and BH5M (27 µg/L)
- Zinc: exceeds the criteria (8 µg/L) at BH1M (31 µg/L), BH2M (23 µg/L) and BH5M (93 µg/L)
- Manganese: exceeds the criteria (1,900 µg/L) at BH1M (2,000 µg/L)

The reported concentrations of metals are considered to be indicative of background conditions, rather than site-specific impacts. In addition, local soils were not considered to be the source of metal impacts given the low levels reported in the analysed fill and natural soil samples.

BTEX

Toluene was detected at BH5M (450 µg/L) above the adopted criteria applicable for fresh waters (180 µg/L).

Although the concentration at BH5M exceeds the criterion of 180 µg/L, all other locations reported results below the criteria, which suggest that the exceedance is localised around the downgradient boundary of the site.

8.4. Review of the CSM

The CSM presented in **Section 4** was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential on-site and off-site receptors. Based on the subsequent field and laboratory analytical data, the likelihood of contamination being present on the land was considered to be low.

9. CONCLUSION

The site identified as 72-88 Water Street, Belfield, NSW 2191 was the subject of this investigation, conducted in order to establish the degree of any contamination.

The key findings of this DSI were as follows:

- Excluding any surface hardstand, the sub-surface of the site was observed to be comprised of a layer of clay filling (down to a maximum depth of 0.5 mBGL), overlying natural (residual) sandy clay, overlying (weathered) siltstone bedrock, the latter occurring from as shallow as 0.4 mBGL.. The potential for the presence of acid sulfate soils was deemed very low.
- Groundwater was encountered from as shallow as 5.1 mBGL in the clay layer. The hydraulic gradient was inferred to be to a north easterly direction, towards Cooks Creek (approximately 320 m north), which eventually drains into the Botany Bay (approximately 5 km south-east). Based on the architectural plans provided, the development is expected to intersect groundwater.
- All laboratory analytical results for the selected (representative) soil samples were found to comply with the adopted criteria applicable for medium to high density residential land use.
- All laboratory analytical results for the groundwater samples were found to comply with the human health adopted criteria.
- The ecological adopted criteria were exceeded for aluminium, copper, nickel, zinc, manganese and toluene (**Section 8.3**).
- The reported concentrations of metals are considered to be indicative of background conditions, rather than site-specific impacts. In addition, local soils were not considered to be the source of metal impacts given the low levels reported in the analysed fill and natural soil samples.
- The exceedance in toluene was observed to be localised (BH5M), immediately before the downgradient boundary of the site and could be a result of cars historically being parked around that area.

Based on the findings of this DSI, and with consideration of the *Statement of Limitations* presented in **Section 11**, EI concludes that the site is suitable for the proposed mixed commercial / residential (apartment) use, subject to the implementation of the recommendations described in **Section 9**, in accordance with the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*.

10. RECOMMENDATIONS

EI provides the following recommendations in relation to the proposed redevelopment of the site:

- An additional groundwater monitoring event (GME) should be conducted after the demolition works around BH5M are complete. The purpose of this GME will be to confirm and delineate (if applicable) the toluene impacts identified during this DSI.
- If the potential for toluene impacts to migrate offsite is confirmed, the NSW EPA should be notified, as per NSW EPA (2015) Duty to Report procedures. Further actions will then be recommended by the NSW EPA, which typically involve further delineation and/or hydraulic containment of any impacted groundwater crossing that particular boundary of the site.
- All identified hazardous materials (EI, 2025a) must be appropriately managed during future demolition works, to maintain worker health and safety and prevent the spread of hazardous substances onto the site surface.
 - Following the demolition works, an asbestos clearance inspection and certificate should be completed by a suitably qualified professional (SafeWork NSW Licensed Asbestos Assessor) following the removal of all ACM.
 - Where clearance inspection indicates hazardous materials remain on the site, further removal and re-clearance inspection, must be undertaken.
- All demolition and excavation works must be managed in accordance with the *Strathfield Consolidated Development Control Plan 2005 (SCDCP 2005)*.
- All soil materials designated for off-site disposal as part of the proposed development, including any *virgin excavated natural material* (VENM), must be pre-classified in accordance the NSW EPA (2014) *Waste Classification Guidelines*. In designing the SAQP for waste classification, the NSW EPA (2022a) *Sampling Design Part 1 - Application* guidelines should be referred to and the analytical suite is to include the identified COPCs (**Section 4**). The analytical results obtained during this DSI could be utilised for this purpose.
- Any material imported to the site should be validated as suitable for the intended (residential) land use, in accordance with NSW EPA guidelines, prior to importation.

EI emphasise that these recommendations can be managed through the development application process, in accordance with *State Environmental Planning Policy (Resilience and Hazards) 2021*.

11. STATEMENT OF LIMITATIONS

This report has been prepared for the exclusive use of JRB Terrigal ('the client'), whom is the only intended beneficiary of EI's work. The scope of the investigation carried out for the purpose of this report was limited to that agreed with JRB Terrigal.

No other party should rely on this document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

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

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

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

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

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

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

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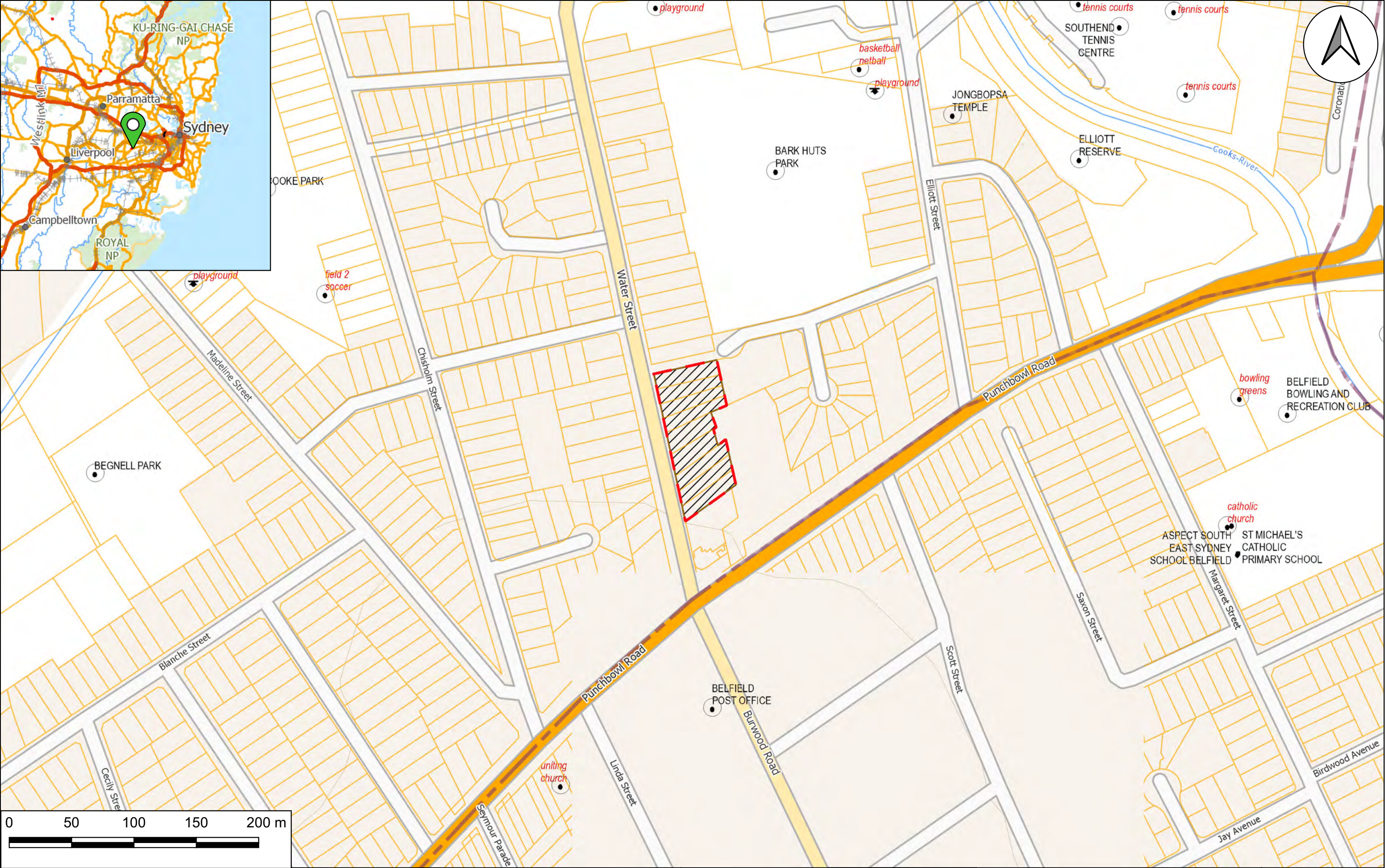
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Appendix A – Figures



LEGEND. Note: All locations are approximate Site Boundary	 Suite 6.01, 55 Miller Street, PYRMONT 2009 Ph (02) 9516 0722 Fax (02) 9518 5088	Drawn:	T.Y.	JRB Terrigal Detailed Site Investigation 72-88 Water Street, Strathfield South, NSW	Figure: 1
		Approved:			
				Date:	05/11/2024



LEGEND (All Locations are Approximate)

- Site boundary
- Basement boundary
- Borehole/monitoring well location
- Borehole location
- Borehole location (Hand auger)


Practical Solutions for Built Environments
Suite 6.01, 55 Miller Street, PYRMONT 2009
Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	A.L.
Approved:	S.R.
Date:	16-08-25

JRB Terrigal
Detailed Site Investigation
72-88 Water Street, Strathfield South, NSW
Borehole Location Plan

Figure:
2
Project: E26573.E03

Appendix B – Tables

Table 1 – Summary of Soil Investigation Results

E26753 - Belfield

Sample ID	Sampling Date	Priority Metals								PAHs				BTEX				TRHs				Pesticides		PCBs	Asbestos
		As	Cd	Cr [#]	Cu	Pb	Ni	Zn	Hg	Carcinogenic PAHs (as B(a)P TEQ)	Benzo(a)pyrene	Total PAHs	Naphthalene	Benzene	Toluene	Ethylbenzene	Total Xylenes	F1	F2	F3	F4	OCPs	OPPs		Presence / absence
EI DSI (2025)																									
HA1_0.2-0.3	30/06/2025	7	0.6	19	67	260	3.3	180	0.12	0.3	0.2	1.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	0.2	<1.7	<0.1	Absent
HA2_0.2-0.3		4	1	10	17	190	4.9	970	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
HA3_0.2-0.3		5	<0.3	11	10	48	2.2	57	<0.05	0.5	0.3	2.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	130	<120	<0.1	<1.7	<0.1	Absent
HA4_0.2-0.3		6	0.6	13	53	190	3.9	380	0.09	0.3	0.2	1.1	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
HA5_0.2-0.3		3	<0.3	17	3.4	25	1.4	15	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
HA6_0.2-0.3		4	<0.3	5.6	13	74	2.4	65	<0.05	<0.3	0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	110	<120	<0.1	<1.7	<0.1	Absent
HA7_0.2-0.3		6	<0.3	16	11	49	2.2	88	0.07	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
HA8_0.2-0.3		3	<0.3	6.3	7.2	39	1.3	31	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
BH1M_0.2-0.3		5	<0.3	13	13	85	2.5	62	0.05	0.6	0.4	2.9	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
BH1M_0.7-0.8		5	<0.3	28	<0.5	16	<0.5	5.8	0.06	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
HA3_0.7-0.8		2	<0.3	26	<0.5	14	1	6	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
HA6_0.7-0.8		2	<0.3	19	1.3	13	0.7	7.3	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
HA8_0.7-0.8		2	<0.3	22	<0.5	11	0.7	5.2	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
BH2M_0.2-0.3	8/07/2025	5	<0.3	18	6.8	22	1.2	27	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent	
BH3_0.2-0.3		4	<0.3	21	0.8	15	0.7	5.9	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
BH4_0.2-0.3		3	<0.3	15	3.3	13	0.8	25	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
BH5M_0.2-0.3		3	0.4	8.7	28	130	3.9	150	0.11	0.4	0.3	1.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<0.1	<1.7	<0.1	Absent
BH3_0.7-0.8		4	<0.3	15	2.4	11	0.8	6.8	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
BH4_0.7-0.8		4	<0.3	14	<0.5	11	<0.5	4.2	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
BH5M_0.7-0.8		4	<0.3	21	0.6	12	0.7	7	<0.05	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.
Statistical Analysis																									
Minimum Concentration		2	0.4	5.6	0.8	11	0.7	4.2	0.05	0.3	0.1	0.8	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	110	<PQL	0.2	<PQL	<PQL	Absent
Maximum concentration		7	1.0	28	67	260	4.9	970	0.12	0.6	0.4	2.9	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	<PQL	130	<PQL	0.2	<PQL	<PQL	Absent
NEPM (2013) Criteria																									
HIL B - Residential with minimal soil access		500	150	500 Cr(VI)	30000	1200	1200	60000	120	4		400										600		1	
HSL A & B - Low to high density residential Soil texture classification – SAND		Source depths (0 m to <1 m. BGL)											3	0.5	160	55	40	45	110					No visible asbestos for surface soil	
		Source depths (1 m to <2 m. BGL)											NL	0.5	220	NL	60	70	240						
		Source depths (2 m to <4 m. BGL)											NL	0.5	310	NL	95	110	440						
		Source depths (4 m + BGL)											NL	0.5	540	NL	170	200	NL						
EILs / ESLs - Urban residential and public open space ^{1 2}		100		410	150	1100	65	410			0.7		170	65	105	125	45	120	120	1300	5600	180			
Management Limits – Residential, parkland and public open space ¹																		700	1000	2500	10000				

Notes:

Highlighted values site reuse guideline (NEPM, HIL-B HSL A&B)

Highlighted values exceed Management Limit

Results are recorded in mg/kg

HIL A

NEPC 1999 Amendment 2013 'HIL A' - Health based Residential with garden / accessible soil, also includes children's day care centres, preschools and primary schools.

HIL B

NEPC 1999 Amendment 2013 'HIL B' - Health based Residential with minimal opportunities for soil access including dwellings with fully and permanenety paved yard space such as high-rise buildings and apartments.

HSL A & B

NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels applicable for vapour intrusion values applicable for low-high density residential settings.

EIL

Ecological Investigation Level for urban residential and public open space land use.

ESL

Ecology Screening Level for urban residential and public open space land use.

N.A.

Not Analysed

PQL

Practical quantification limit

1

Coarse grained soil assessment criteria values were appliedm as a conservative approach.

2

EIL criteria is derived from a site specific Added Contaminant Limit (ACL) with the Ambient Background Concentration (ABC) for a high traffic NSW suburb.

3

The ecological criteria for benzo(a)pyrene was sourced from CRC Care (2017) Technical Report No. 39 Risk-based management and remediation guidance for benzo(a)pyrene.

F1

To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.

F2

To obtain F2 subtract naphthalene from the >C10-C16 fraction.

F3

(>C16-C34)

F4

(>C34-C40)

Table 2 - Analytical Results for Groundwater and Dewatering

Table 2 - Analytical Results for Groundwater and Dewatering																																	E26573 - Belfield							
Sample Identification	Date	Metals																				BTEX					PAHs			TPHs				VOCs						
		Al	As	Cd	Total Cr	Cu	Pb	Ni	Zn	Sb	Ba	Be	B	Co	Fe	Mn	Mo	Se	Ag	Sr	U	V	Hg	Benzene	Toluene	Ethylbenzene	o-xylene	m + p-xylene	Benzo(a)pyrene	Naphthalene	Total PAHs	Volatile TRH (C ₁ -C ₆)	Semi-volatile (C ₇ -C ₉)	F1	F2	F3	F4	Carbon Disulfide	Chloroform	1,2,4-trimethylbenzene
Groundwater results																																								
BH1M	25/07/2025	140	<1	<0.1	<1	<1	<1	32	31	<1	100	<1	35	10	18000	2000	2	<1	<1	400	<1	<1	<0.1	<0.5	0.6	<0.5	<0.5	<1	<0.1	<0.1	<1	<50	<320	<50	<60	<500	<500	N.A.	N.A.	N.A.
BH2M	25/07/2025	6	<1	<0.1	<1	2	<1	100	23	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.1	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<1	<50	<320	<50	<60	<500	<500	<2	<0.5	<0.5		
BH5M	25/07/2025	700	<1	0.2	2	7	<1	27	92	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	<0.1	<0.5	450	1.2	2.5	5	<0.1	<0.1	<1	<50	330	<50	420 <60~	<500	<500	2	0.5	<0.5	
Guidelines																																								
HSL A & B - Low to high density residential Soil texture classification – Clay		2m to <4m																				5,000	NL	NL	NL	NL		NL					NL	NL						
		4m to <8m																				5,000	NL	NL	NL	NL		NL					NL	NL						
		8m+																				5,000	NL	NL	NL	NL		NL					NL	NL						
GILs	Fresh Waters ¹	0.8 ² (pH<6.5) 55 ³ (pH>6.5)	24 (AsIII) 13 (AsV)	0.2	3.3 ³ (Cr VI)	1.4	3.4	11	8 ³	9 ⁶	2000 ⁵	600 ⁵	940 ²	1.4 ²		1,900	34	11	0.05		0.5	6	0.06 ²	950	180 ⁴	80 ⁴	350	275 ⁴	16					50 ⁵	280 ⁵	500 ⁵	500 ⁵	20	770	
	Recreational Water ⁶		100	20		1,000 *	100	200	3,000*													10	10	25*	3*	20 *	20 *													
NJDEP - Screening Levels ⁷																														300										

Notes:
All values are µg/L unless stated otherwise
NA Not Analysed
ND indicates values superceded by more recent analytical results
~ indicates result after silica gel clean up
PQL Practical quantification limits
F1 F1 is obtained by subtracting the sum of BTEX concentrations from the C6-C10 fraction.
F2 F2 is obtained by subtracting naphthalene from the >C10-C16 fraction.
F3 (>C16-C34)
F4 (>C34-C40)
Note 1 Discharge water criteria are the ANZG (2018) 95% Default Guideline Values (DGVs) for the protection of slightly to moderately disturbed freshwater ecosystems, with the 99% DGVs applied for the bio-accumulative parameters benzo(a)pyrene, cadmium and mercury, unless otherwise indicated
Note 2 For the metals which are commonly present as regional background components in groundwater at concentrations above the ANZG 2018 95% Fresh DGVs, discharge water criteria are set at one order of magnitude higher than the ANZG 2018 DGV.
Note 3 The ANZG (2018) only provides freshwater criteria at an 'unknown' level (%) of species protection for antimony, chromium III, cobalt, molybdenum, uranium and vanadium; therefore, these DGVs are applied.
Note 4 NHMRC (2008) No Detectable Oil & Grease - OG test must find no visible film or sheen at the water surface and no detectable hydrocarbon odours, based on aesthetic aspects, as described in NHMRC (2008) Guidelines for managing risks in recreational water, Section 10.2.2.
Note 5 In the absence of ANZG (2018) criteria, alternative criteria from ANZECC / ARMCANZ (2000), Table 3.2.2 Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed ecosystems. Adopted pH range is that specified for Freshwater lakes & Reservoirs.
Note 6 In the absence of ANZG 2018 criteria in relation to Turbidity, the ANZECC & ARMCANZ 2000 Table 3.3.3 upper default trigger value for Lakes & reservoirs is applied.
Note 7 DWQ value is derived from the National Environmental Management Plan for PFAS (2020) - 95% species protection for slightly to moderately disturbed systems.
Note 8 In the absence of ANZG (2018) criteria, alternative criteria from ANZECC / ARMCANZ (2000), Table 3.2.2, Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed ecosystems. The Freshwater lakes & Reservoirs criteria were adopted for total oxidised nitrogen (NOx), total phosphorus (TP), reactive phosphorus (FRP) and total nitrogen (TN).

Value is above the adopted Criteria
Criteria exceeded



Table 2 - Analytical Results for Groundwater and Dewatering (cont.)

Sample Identification	Date	Total Cyanide	Total Phenols	PFAS		Alkalinity			Redox	Dissolved Oxygen (DO)	Total Organic Carbon	Sodium Absorption Ratio (SAR)	Major Anions					Major Cations				Ionic Balance (as percentage)	Nutrients							
				PFOS	PFOA	Bicarbonate (mg/L)	Carbonate (mg/L)	Total Alkalinity(mg/L)					Fluoride	Chloride (mg/L)	Sulfate CO ₃ (mg/L)	Bromide	Nitrate Nitrogen NO3-N	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)		NH ₃	NO ₃	Total Nitrogen	Oxidised Nitrogen	Total Phosphorus	Reactive Phosphorus	Ammonia Nitrogen, NH ₃ as N	
Dewatering trial period																														
BH1M	25/07/2025	N.A.	<50	<0.01	<0.01	230	<5	230	387	2.7	19	24.6	0.4	2100	350	1.3	<0.025	37	91	1200	16	-4.89	0.61	<0.025	11	<0.005	9.5	<0.005	610	
BH2M	25/07/2025	<4	<50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	140	230	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
BH5M	25/07/2025	<4	<50	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	5.9	80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Guidelines																														
Adopted Water Quality Criteria		7	320	0.13 ⁵	220 ⁵												29						900		350	10	10	5	900 (Ammonia)	
GILs	Fresh Waters ¹	7	320	0.13 ⁵	220 ⁵								1700				29						900							
	Recreational Water ⁶																													

Notes:
All values are µg/L unless stated otherwise
NA Not Analysed
ND indicates values superceded by more recent analytical results
~ indicates result after silica gel clean up
PQL Practical quantification limits
Note 1 Discharge water criteria are the ANZG (2018) 95% Default Guideline Values (DGVs) for the protection of slightly to moderately disturbed freshwater ecosystems, with the 99% DGVs applied for the bio-accumulative parameters benzo(a)pyrene, cadmium and mercury, unless otherwise indicated
Note 2 For the metals copper and zinc, which are commonly present as regional background components in groundwater at concentrations above the ANZG 2018 95% Fresh DGVs, discharge water criteria are set at one order of magnitude higher than the ANZG 2018 DGV.
Note 3 The ANZG (2018) only provides freshwater criteria at an 'unknown' level (%) of species protection for antimony, chromium III, cobalt, molybdenum, uranium and vanadium; therefore, these DGVs are applied.
Note 4 NHMRC (2008) No Detectable Oil & Grease - OG test must find no visible film or sheen at the water surface and no detectable hydrocarbon odours, based on aesthetic aspects, as described in NHMRC (2008) Guidelines for managing risks in recreational water, Section 10.2.2.
Note 5 Value dervied from the PFAS National Environmental Management Plan (HEPA, 2025)PNEMP) (2020) Freshwater Criteria
Note 6 In the absence of ANZG 2018 criteria in relation to Turbidity, the ANZECC & ARMCANZ 2000 Table 3.3.3 upper default trigger value for Lakes & reservoirs is applied.
Note 7 DWC value is derived from the National Environmental Management Plan for PFAS (2020) - 95% species protection for slightly to moderately disturbed systems.
Note 8 In the absence of ANZG (2018) criteria, alternative criteria from ANZECC / ARMCANZ (2000), Table 3.2.2, Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed ecosystems. The Freshwater lakes & Reservoirs criteria were adopted for total oxidised nitrogen (NOx), total phosphorus (TP), reactive phosphorus (FRP) and total nitrogen (TN).
Note 9 - Department of Planning and Environment - Microbiological indicators Beachwatch Partnership Program (BPP).
Note 9 - Values as listed apply to nitrate in hard water (> 150 mg/L CaCO3).

Value is above the adopted Criteria

Table 2 - Analytical Results for Groundwater and Dewatering (cont.)

Sample Identification	Date	Microbiological Organisms	
		Escherichia coli (or J-toms)	Intestinal Enterococci
Dewatering trial period			
BH1M	25/07/2025	<1	<1
BH2M	25/07/2025	N/A	N/A
BH5M	25/07/2025	N/A	N/A
Guidelines			
*BPP - microbial risks in recreational water 2004-2005			35
*BPP - microbial risks in recreational water 2008-2009			<40
95th Percentile of enterococci			

Notes:

NA Not Analysed
ND Not Detected
PQL Practical quantification limits
Note 1 Discharge water criteria are the ANZG (2018) 95% Default Guideline Values (DGVs) for the protection of slightly to moderately disturbed freshwater ecosystems, with the 99% DGVs applied for the bio-accumulative parameters benzo(a)pyrene, cadmium and mercury, unless otherwise indicated
Note 2 For the metals copper and zinc, which are commonly present as regional background components in groundwater at concentrations above the ANZG 2018 95% Fresh DGVs, discharge water criteria are set at one order of magnitude higher than the ANZG 2018 DGV.
Note 3 The ANZG (2018) only provides freshwater criteria at an 'unknown' level (%) of species protection for antimony, chromium III, cobalt, molybdenum, uranium and vanadium; therefore, these DGVs are applied.
Note 4 NHMRC (2008) No Detectable Oil & Grease - OG test must find no visible film or sheen at the water surface and no detectable hydrocarbon odours, based on aesthetic aspects, as described in NHMRC (2008) Guidelines for managing risks in recreational water, Section 10.2.2.
Note 5 In the absence of ANZG (2018) criteria, alternative criteria from ANZECC / ARMCANZ (2000), Table 3.2.2 Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed ecosystems. Adopted pH range is that specified for Freshwater lakes & Reservoirs.
Note 6 In the absence of ANZG 2018 criteria in relation to Turbidity, the ANZECC & ARMCANZ 2000 Table 3.3.3 upper default trigger value for Lakes & reservoirs is applied.
Note 7 DWC value is derived from the National Environmental Management Plan for PFAS (2020) - 95% species protection for slightly to moderately disturbed systems.
Note 8 In the absence of ANZG (2018) criteria, alternative criteria from ANZECC / ARMCANZ (2000), Table 3.2.2, Default trigger values for physical and chemical stressors for south-east Australia for slightly disturbed ecosystems. The Freshwater lakes & Reservoirs criteria were adopted for total oxidised nitrogen (NOx), total phosphorus (TP), reactive phosphorus (FRP) and total nitrogen (TN).
Note 9 - Department of Planning and Environment - Microbiological indicators Beachwatch Partnership Program (BPP), used for indicative purposes only.
Eastlakes is the closest downgradient water body and is approx. 2km south of the site. Due to the distance, this water body is not considered a potential receptor.
The nearest general use or domestic bore was located approximately 95m to the north and therefore upgradient of the site.
Value is above the adopted Criteria



Table 3 Summary of Results for the Field QA/QC samples

E26573 - Belfield

Sample identification	Sampled Date	Description	TRH				BTEX				Metals							
			F1*	F2**	F3 (>C ₁₆ - C ₃₄)	F4 (>C ₃₄ - C ₄₀)	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
BH1M_0.2-0.3	30/6/2025	FILL	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	13	13	85	<0.05	2.5	62
QD30/6		Duplicate of BH1M_0.2-0.3	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	13	17	94	<0.05	4.4	83
RPD (%)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	10.1	0.0	55.1	29.0
BH1M	25/7/2025	Groundwater	<50	<60	<500	<500	0.6	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	32	31
QD25/7		Duplicate of BH118M	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	1	<1	<0.1	31	35
RPD (%)			0.0	0.0	0.0	0.0	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.1
Inter-laboratory Duplicate																		
BH1M_0.2-0.3	30/6/2025	FILL	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	5	<0.3	13	13	85	<0.05	2.5	62
QT30/6		Duplicate of BH1M_0.2-0.3	<25	<50	<100	<100	<0.2	<0.5	<1	<3	13	<0.4	32	4	32	<0.1	2	16
RPD (%)			0.0	NA	NA	NA	NA	NA	NA	NA	88.9	NA	84.4	105.9	90.6	NA	22.2	117.9
BH1M	25/7/2025	Groundwater	<50	<60	<500	<500	0.6	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	32	31
QD25/7		Duplicate of BH118M	<10	<50	<100	<100	<1	<1	<1	<3	<1	<0.1	<1	1	<1	<0.05	28	27
RPD (%)			NA	NA	NA	NA	72.7	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	NA	13.3	13.8
TB	30/06/2025	Trip blank	-	-	-	-	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-	-	-
TS		Trip spike	-	-	-	-	[104%]	[103%]	[104%]	-	-	-	-	-	-	-	-	-
QR1		Rinsate	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	6
TS 25/7	25/07/2025	Trip blank	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-
TB 25/7		Trip spike	-	-	-	-	[111%]	[114%]	[101%]	[102%]	-	-	-	-	-	-	-	-
QR 25/7		Rinsate	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	<5

Indicates values where a single result is found to be less than detection, with the duplicate sample found to be over the detection limit.

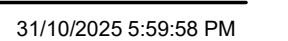
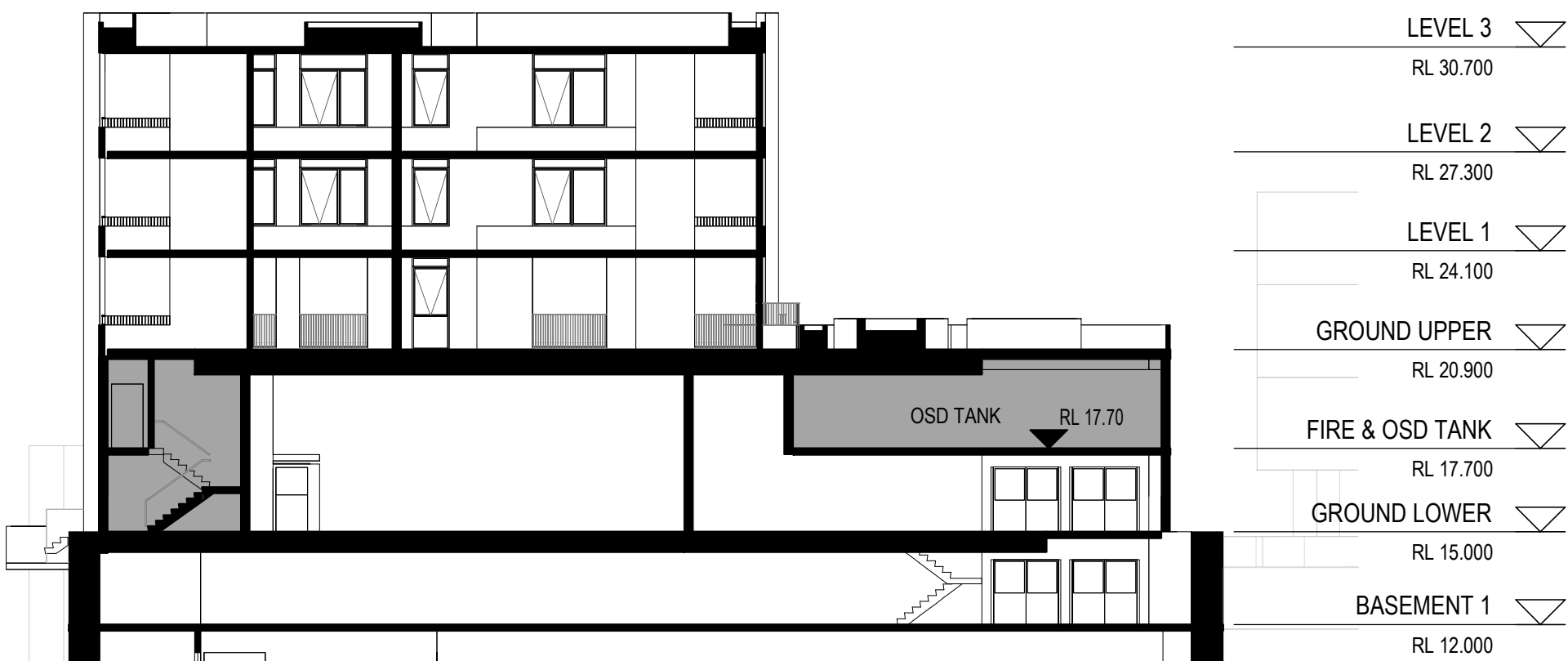
RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE:

All soil results are reported in mg/kg . All water results are reported in µg/L.

* - F1 is obtained by subtracting the sum of BTEX concentrations from the C₆-C₁₀ fraction** - F2 is obtained by subtracting naphthalene from the > C₁₀-C₁₆ fraction

Appendix C – Proposed Development Plans



Appendix D – Borehole Logs



BOREHOLE LOG

BH ID: HA8

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
		Date	30 June 2025

Drilling Contractor	EI Australia	Surface RL	-	Latitude	-
Plant	Hand auger	Inclination	90°	Longitude	-

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA8_0.20-0.30 PID = 0.3 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets, No odour			FILL
		HA8_0.70-0.80 PID = 0 PPM		0.40			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA7

Location 72-88 Water Street, Belfield NSW
Client JRB Terrigal
Job No. E26573
Sheets 1 of 1

Started 30 June 2025
Completed 30 June 2025
Logged By AL
Review By SR **Date** 30 June 2025

Drilling Contractor El Australia

Plant Hand auger

Inclination 90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA7_0.20-0.30 PID = 0 PPM		0.00 0.10			FILL: Sandy CLAY: low plasticity, brown, with rootlets, No odour FILL: CLAY: low plasticity, brown to red mottled white with rootlets, No odour Terminated at 0.40m. Refusal on Hard Surface.	M > PL		FILL
				1						
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with El Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA6

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
		Date	30 June 2025

Drilling Contractor	El Australia
Plant	Hand auger
Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA6_0.20-0.30 PID = 0.1 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets, No odour			FILL
		HA6_0.70-0.80 PID = 0 PPM		0.40			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with El Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA5

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
		Date	30 June 2025

Drilling Contractor	El Australia
Plant	Hand auger
Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA5_0.20-0.30 PID = 0 PPM		0.00			FILL: Sandy CLAY: low plasticity, brown, with rootlets, No odour			FILL
		HA5_0.70-0.80 PID = 0 PPM		0.40			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with El Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA4

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
Drilling Contractor		Date	30 June 2025

Plant	Hand auger	Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA4_0.20-0.30 PID = 0.8 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets, No odour	M > PL		FILL
		HA4_0.70-0.80 PID = 0.2 PPM		0.60			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour			RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA3

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
		Date	30 June 2025

Drilling Contractor	El Australia
Plant	Hand auger
Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA3_0.20-0.30 PID = 0.3 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets and angular to sub angular gravels, No odour			FILL
		HA3_0.70-0.80 PID = 0 PPM		0.40			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with El Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA2

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
		Date	30 June 2025

Drilling Contractor	El Australia
Plant	Hand auger
Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA2_0.20-0.30 PID = 0.4 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets, No odour			FILL
		HA2_0.70-0.80 PID = 0 PPM		0.30			Silty CLAY: high plasticity, red brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with El Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: HA1

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025
Client	JRB Terrigal	Completed	30 June 2025
Job No.	E26573	Logged By	AL
Sheets	1 of 1	Review By	SR
Drilling Contractor		Date	30 June 2025

Plant	Hand auger	Inclination	90°

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	HA1_0.20-0.30 PID = 0.4 PPM		0.00			FILL: Silty CLAY: low plasticity, brown, with rootlets, No odour			FILL
		HA1_0.70-0.80 PID = 0 PPM		0.40			Silty CLAY: high plasticity, Orange brown mottled light grey, No odour	M > PL		RESIDUAL SOIL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	08 July 2025	
Job No.	E26573			Logged By	JF	Date 08 July 2025
Sheets	1 of 5			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247220.4 (MGA 2020 Zone 56)	
				Easting	322779.2 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	3/5/07/2025 11:58 AM 3/5/07/2025 02:58 PM 3/4/07/2025 04:46 PM	BH5M _0.20-0.30 PID = 0.3 PPM		0.00		15.10	CONCRETE: 90mm thick	-	-	CONCRETE
		SPT 0.50-0.95 2,4,8 N=12		0.09		15.01	FILL: Gravelly CLAY: low plasticity, dark grey, fine to medium grained igneous gravel	M > PL	-	FILL
		BH5M _0.60-0.95 BH5M _0.70-0.80 PID = 0 PPM		0.60		14.50	Silty CLAY: medium to high plasticity, light grey and red brown, trace of fine to medium grained ironstone gravel	M > PL	VSt	RESIDUAL SOIL
		BH5M _1.50-1.95 SPT 1.50-1.95 5,6,8 N=14		1.40		13.70	Silty CLAY: medium plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel	M > PL	VSt	RESIDUAL SOIL
		BH5M _3.00-3.45 SPT 3.00-3.45 5,14,22 HB N=36		3.60		11.50	From 3.60m, As above, but grading into extremely weathered siltstone	M < PL	H	RESIDUAL SOIL
		BH5M _4.50-4.85 SPT 4.50-4.85 7,16,12/50 mm HB N=R		5.60		9.50	SILTSTONE: dark grey, inferred very low to low strength	-	-	WEATHERED ROCK
		BH5M _5.60-5.90		7.98		7.17	Log continued on next page.			
		BH5M _7.10-7.40								



BOREHOLE CORE LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	08 July 2025	
Job No.	E26573			Logged By	JF	Date 08 July 2025
Sheets	2 of 5			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247220.4 (MGA 2020 Zone 56)	
				Easting	322779.2 (MGA 2020 Zone 56)	

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL ₀₋₁ L ₀₋₃ M ₁ H ₃ VH ₁₀ EH		30 100 300 1000 3000
				1							
				2							
				3							
				4							
				5							
				6							
				7							
				8		7.10	NO CORE: 70mm thick	-			
				8.00		6.94	SILTSTONE: dark grey, laminated at 0°-5°	HW		8.16: BP 0° PR SM CLAY Infilled	
				8.16			SILTSTONE: dark grey	XW		8.17: BP 0° PR SM CLAY Infilled	
										8.33: JT 65° PR SM CN	
										8.36-8.43: XWS	
										8.57-8.63: XWS	
				8.64		6.46	SILTSTONE: dark grey, with grey laminae, laminated at 0°-5°	HW		8.71: BP 0° PR SM Clay VN	
				9						8.82: JT 70° PR SM CN	
										8.87-8.92: XWS	
										8.96: JT 30° PR SM SN	
										9.02: JT 30° ST SM CN	
										9.43: JT 40° PR SM CN	
				10				FR			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025		
Client	JRB Terrigal			Completed	08 July 2025		
Job No.	E26573			Logged By	JF	Date	08 July 2025
Sheets	3 of 5			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247220.4 (MGA 2020 Zone 56)		
				Easting	322779.2 (MGA 2020 Zone 56)		

METHOD	NMLC		Flush Return	TCR %	ROD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral						DISCONTINUITIES & ADDITIONAL DATA		FRACTURE SPACING																	
											VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH			30	100	300	1000	3000													
									SILTSTONE: dark grey, with grey laminae, laminated at 0°-5°																											
						11																														
				100	98	12												12.05: JT 75-90° CU SM CN 12.10: BP 0° PR SM Clay VN																		
						12.71		2.39	From 12.71m, As above, but with a trace of thin sandstone bands									12.74: JT 80° PR SM CN 12.86: JT 70° PR SM CN																		
						13																														
																		13.41: JT 35° PR SM CN																		
						14																														
				100	69	15				FR																										
						16												15.66: BP 0° PR SM Clay VN 15.69: BP 0° PR SM Clay VN 15.78: BP 0° IR SM OP 15.87: JT 30° PR SM CN 15.90: JT 30° PR SM CN 15.92: JT 70° PR SM CN 15.94: JT 70° PR SM CN 15.99: JT 80° PR SM CN 16.09: JT 70° PR SM CN 16.11: JT 80° PR SM CN 16.14: JT 60° PR SM CN 16.22: JT 25° PR SM CN 16.26: JT 80° PR SM CN 16.28: BP 5° PR SM Clay VN 16.34: JT 70° PR SM CN 16.36: JT 90° PR SM CN 16.37: JT 45° PR SM CN 16.39: JT 50° PR SM CN 16.42: JT 70° PR SM CN 16.45: BP 5° PR SM Clay VN 16.51: BP 0° PR SM Clay VN 16.61: BP 0° PR SM Clay VN 16.70: BP 5° PR SM Clay VN 16.90-16.93: CS 17.85: JT 60° PR SM CN 18.10: JT 30° PR SM CN																		
						17																														
				100	100	18																														
						19																														
						20												19.33-19.34: FS 19.49: JT 15° PR SM CN																		

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	08 July 2025	
Job No.	E26573			Logged By	JF	Date 08 July 2025
Sheets	4 of 5			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247220.4 (MGA 2020 Zone 56)	
				Easting	322779.2 (MGA 2020 Zone 56)	

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	90% Water	100	99	20.84		-5.84	From 12.71m, As above, but with a trace of thin sandstone bands		VL 0-1 L 0-3 M 1 H 3 VH 10 EH	20.08: JT 25° PR SM CN	30 100 300 1000 3000
		100	97	22			LAMINITE: 70% Siltstone, dark grey, and 30% sandstone, fine grained, light grey, laminated at 0°-5°			20.71: JT 45° PR SM CN 20.95: JT 35° PR RO CN 21.17: JT 50° PR RO CN 21.73-21.74: XWS	
		100	97	23							
		100	97	24							
		100	97	25						24.81: JT 40° PR SM CN 25.03: JT 70-80° PR SM CN	
		100	97	25.65		-10.55	From 25.65m, As above, but laminated at 0°-10°			25.63: JT 25° PR SM CN 25.90: JT 45° PR SM CN 25.99: JT 70° PR SM CN 26.15: JT 70° PR SM CN	
		100	97	26							
		100	97	27						26.92: JT 45° PR SM CN	
		100	97	27.21		-12.11	SILTSTONE: dark grey, with some grey laminae, laminated at 0°-10°				
		100	97	28						27.96: JT 70° PR SM CN	
		100	97	29						29.30: BP 5° IR RO CN 29.33-29.34: CS 29.50: JT 30° PR SM CN 29.80: JT 30° PR SM CN	
		100	97	30							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025		
Client	JRB Terrigal			Completed	08 July 2025		
Job No.	E26573			Logged By	JF	Date	08 July 2025
Sheets	5 of 5			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247220.4 (MGA 2020 Zone 56)		
				Easting	322779.2 (MGA 2020 Zone 56)		

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	90% Water					-15.39	SILTSTONE: dark grey, with some grey laminae, laminated at 0°-10°	FR	VL 0-1 L 0-3 M 1 H 3 VH 10 EH	30.14: BP 0° PR SM Clay VN 30.16: BP 0° PR RO Clay VN	30 100 300 1000 3000
				31			Terminated at 30.49m. Target Depth Reached.				
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH5M

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	08 July 2025	
Job No.	E26573			Logged By	JF	Date 08 July 2025
Sheets	1 of 1			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈15.10 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247220.4 (MGA 2020 Zone 56)	
				Easting	322779.2 (MGA 2020 Zone 56)	

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
	BH5M_0.20-0.30 PID = 0.3 PPM SPT 0.50-0.95 2,4,8 N=12 BH5M_0.60-0.95 BH5M_0.70-0.80 PID = 0 PPM BH5M_1.50-1.95 SPT 1.50-1.95 5,6,8 N=14 BH5M_3.00-3.45 SPT 3.00-3.45 5,14,22 HB N=36 BH5M_4.50-4.85 SPT 4.50-4.85 7,16,12/50 mm HB N=R BH5M_5.60-5.90 BH5M_7.10-7.40	0.00 0.09 0.60 1 1.40 2 3 3.60 4 5 5.60 6 7 7.83 8.00 8.16 8.64 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25.65 26 27 27.21 28 29 30 31		15.10 15.01 14.01 13.30 12.71 11.50 9.50 7.10 6.90 6.40 6 5.94 5.84 5.55 5.39	CONCRETE: 90mm thick FILL: Gravelly CLAY: low plasticity, dark grey, fine to medium grained igneous gravel Silty CLAY: medium to high plasticity, light grey and red brown, trace of fine to medium grained ironstone gravel Silty CLAY: medium plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel From 3.60m, As above, but grading into extremely weathered siltstone SILTSTONE: dark grey, inferred very low to low strength NO CORE: 70mm thick SILTSTONE: dark grey, laminated at 0°-5° SILTSTONE: dark grey SILTSTONE: dark grey, with grey laminae, laminated at 0°-5° From 12.71m, As above, but with a trace of thin sandstone bands LAMINITE: 70% Siltstone, dark grey, and 30% sandstone, fine grained, light grey, laminated at 0°-5° From 25.65m, As above, but laminated at 0°-10° SILTSTONE: dark grey, with some grey laminae, laminated at 0°-10° Terminated at 30.49m. Target Depth Reached.	M > PL M < PL -	Steel Cover at Surface Bentonite 0.10m - 18.10m Sand 11.90m - 18.10m Bentonite 18.10m - 18.50m Sand 18.50m - 30.49m	Well Stickup = -0.10m (RL 15.0m) 0.10m - 12.10m PVC casing (50mm Ø) 12.10m - 18.10m PVC screen (50mm Ø)

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE LOG

BH ID: BH4

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	04 July 2025	
Job No.	E26573			Logged By	JF	Date 04 July 2025
Sheets	1 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈14.70 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247210.0 (MGA 2020 Zone 56)	
				Easting	322816.4 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH4_0.20-0.30 PID = 0.8 PPM		0.00		14.70	FILL: Sandy CLAY: low to medium plasticity, dark grey, with fine to medium grained ironstone and igneous gravel and root fibres	M > PL	-	FILL
		BH4_0.50-0.95 SPT 0.50-0.95 2,4,6 N=10 BH4_0.70-0.80 PID = 0.2 PPM		0.50		14.20	Silty CLAY: high plasticity, orange brown and red brown, trace of fine to medium grained ironstone gravel	M > PL	F	RESIDUAL SOIL
				1.10		13.60	From 1.10m, As above, but light grey and red brown, trace of fine to medium grained ironstone gravel		VSt	
		BH4_1.50-1.95 SPT 1.50-1.95 5,12,15 N=27		2.30		12.40	Silty CLAY: medium plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel and some siltstone bands	M < PL	H	
		BH4_3.00-3.45 SPT 3.00-3.45 9,16,19 N=35		5.20		9.50	SILTSTONE: dark grey, with iron indurated bands, inferred very low strength			WEATHERED ROCK
		BH4_5.80-6.40		7.10		7.60	From 7.10m, As above, but inferred low to medium strength			
		BH4_7.10-7.40		7.41		7.29	Log continued on next page.			
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH4

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025		
Client	JRB Terrigal			Completed	04 July 2025		
Job No.	E26573			Logged By	JF	Date	04 July 2025
Sheets	2 of 4			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈14.70 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247210.0 (MGA 2020 Zone 56)		
				Easting	322816.4 (MGA 2020 Zone 56)		

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				1							
				2							
				3							
				4							
				5							
				6							
				7							
				8			SILTSTONE: dark grey, with grey and light grey laminae, laminated at 0°-5°	FR	▼	7.57: JT 90° PR SM CN 7.65: JT 70-90° CU SM CN	
NMLC	90% Water	100	97	9						8.92: BP 0° PR SM Clay VN 9.24: BP 0° PR SM Clay VN	
				10						9.68: BP 0° PR SM Clay VN	

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH4

Location	72-88 Water Street, Belfield NSW	Started	04 July 2025		
Client	JRB Terrigal	Completed	04 July 2025		
Job No.	E26573	Logged By	JF	Date	04 July 2025
Sheets	3 of 4	Review By	STP	Date	05 August 2025

Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈14.70 m (AHD)	Northing	6247210.0 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	322816.4 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	90% Water	100	100	11			SILTSTONE: dark grey, with grey and light grey laminae, laminated at 0°-5°	FR	VL 0-1 L 0-3 M 1 H 3 VH 10 EH	10.57: BP 0° PR SM SN 11.32: JT 90° PR SM CN 11.67: BP 0° PR SM SN 12.41: BP 0° PR SM SN 12.60: BP 0° PR SM SN 13.60: JT 70-80° UN SM CN 15.39: BP 0° PR SM Clay VN 15.41-15.42: CS 16.40: JT 75° PR SM CN 16.77: JT 30° PR SM CN 16.82: JT 60° PR SM CL 16.96: JT 20° PR SM CN 16.98: JT 45° PR SM CN 16.99: JT 70° PR SM CN 17.03: JT 60° PR SM CN 17.08: JT 60° PR SM CN 17.16: JT 45° PR SM CN 17.17: JT 75° PR SM CN 17.18: JT 35° PR SM CN 17.22: JT 30° PR SM CN 17.59: JT 80° PR SM CN 17.79: JT 70-90° CU SM CN 17.99: JT 70° PR SM CN 18.23: JT 15° PR SM CN 19.65: BP 0° PR RO CN	30 100 300 1000 3000
	70% Water	100	100	12							
				13							
				14							
				15							
				15.42		-0.72	NO CORE: 70mm thick				
				15.49		-0.79	SILTSTONE: dark grey, with grey and dark grey laminae, laminated at 0°-5°				
				16							
				17							
				18							
				19							
				19.87		-5.17	LAMINITE: 70% Siltstone, dark grey, and 30% sandstone, fine grained, light grey, laminated at 0°-5°				
				20							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH4

Location	72-88 Water Street, Belfield NSW			Started	04 July 2025	
Client	JRB Terrigal			Completed	04 July 2025	
Job No.	E26573			Logged By	JF	Date 04 July 2025
Sheets	4 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈14.70 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247210.0 (MGA 2020 Zone 56)	
				Easting	322816.4 (MGA 2020 Zone 56)	

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
NMLC	70% Water								VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
						-5.90	LAMINITE: 70% Siltstone, dark grey, and 30% sandstone, fine grained, light grey, laminated at 0°-5°	FR												
							Terminated at 20.60m. Target Depth Reached.													
				21																
				22																
				23																
				24																
				25																
				26																
				27																
				28																
				29																
				30																

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH3

Location	72-88 Water Street, Belfield NSW			Started	01 July 2025	
Client	JRB Terrigal			Completed	02 July 2025	
Job No.	E26573			Logged By	JF	Date 02 July 2025
Sheets	1 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.40 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247174.1 (MGA 2020 Zone 56)	
				Easting	322793.0 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH3_0.20-0.30 PID = 0.6 PPM		0.00		16.40	FILL: Sandy CLAY: low plasticity, dark grey brown, fine to medium grained sand, trace of fine to medium grained sub rounded ironstone and igneous gravel	M > PL	-	FILL
		BH3_0.50-0.95 SPT 0.50-0.95 2,3,4 N=7 BH3_0.70-0.80 PID = 0 PPM		0.50		15.90	Silty CLAY: medium to high plasticity, light grey and red brown, trace of fine to medium grained ironstone gravel	M > PL	St	RESIDUAL SOIL
		BH3_1.50-1.95 SPT 1.50-1.95 8,14,15 N=29		1.00						
		BH3_3.00-3.45 SPT 3.00-3.45 10,13,21 N=34		2.20		14.20	Silty CLAY: medium plasticity, light grey mottled red brown, with fine to medium grained ironstone gravel, and grading into extremely weathered siltstone			
WB		BH3_4.50-4.85 SPT 4.50-4.85 9,14,6/50 mm HB N=R		3.00				M < PL	H	
				4.00						
				6.00						
				6.90		9.50	SILTSTONE: dark grey, inferred very low to low strength			WEATHERED ROCK
				7.60		8.80	From 7.60m, As above, but inferred low to medium strength	-	-	
				8.00		8.40	Log continued on next page.			
				9.00						
				10.00						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH3

Location	72-88 Water Street, Belfield NSW			Started	01 July 2025		
Client	JRB Terrigal			Completed	02 July 2025		
Job No.	E26573			Logged By	JF	Date	02 July 2025
Sheets	2 of 4			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.40 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247174.1 (MGA 2020 Zone 56)		
				Easting	322793.0 (MGA 2020 Zone 56)		

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL ₀₋₁ L ₀₋₃ M ₁ H ₃ VH ₁₀ EH		30 100 300 1000 3000
				1							
				2							
				3							
				4							
				5							
				6							
				7							
				8			SILTSTONE: dark grey, with grey and light grey laminae, laminated at 0°-5°		▼	8.07: JT 90° PR SM CN 8.12: JT 50° PR SM CN	
NMLC	75% Water	100	92	9				FR	▼	9.26-9.28: CS	
				10					▼		

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH3

Location	72-88 Water Street, Belfield NSW			Started	01 July 2025	
Client	JRB Terrigal			Completed	02 July 2025	
Job No.	E26573			Logged By	JF	Date 02 July 2025
Sheets	3 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.40 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247174.1 (MGA 2020 Zone 56)	
				Easting	322793.0 (MGA 2020 Zone 56)	

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
									VL 0-1 L 0-3 M 1 H 3 VH 10 EH		
NMLC	75% Water			11		5.14	SILTSTONE: dark grey, with grey and light grey laminae, laminated at 0°-5°			10.41: BP 0° PR SM Clay Infilled 10.48-10.50: XWS Clay 10.58: BP 0° PR SM Clay VN	
		100	97	11.26			From 11.26m, As above, but with a trace of sandstone bands			11.31-11.32: CS 11.38: BP 0° PR RO CN	
				12						11.78: JT 60° PR SM SN	
				13							
				14						14.31: JT 70° PR RO CN	
	65% Water	100	100	15				FR		14.81: JT 20° PR SM CN 15.33: JT 70° PR SM CN	
				16						15.97: JT 70° PR SM CL	
				17						16.75: JT 50° PR SM CN 16.97: JT 65° PR SM CN 17.12: JT 60° PR SM CN	
		100	93	18						18.15: JT 50° PR SM CN 18.24: JT 75° PR SM CN 18.34-18.35: CS	
				19							
		100	100	20							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH3

Location	72-88 Water Street, Belfield NSW			Started	01 July 2025	
Client	JRB Terrigal			Completed	02 July 2025	
Job No.	E26573			Logged By	JF	Date 02 July 2025
Sheets	4 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.40 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247174.1 (MGA 2020 Zone 56)	
				Easting	322793.0 (MGA 2020 Zone 56)	

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
NMLC	65% Water								VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
						-4.15	From 11.26m, As above, but with a trace of sandstone bands	FR	▼		
							Terminated at 20.55m. Target Depth Reached.				
				21							
				22							
				23							
				24							
				25							
				26							
				27							
				28							
				29							
				30							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH2M

Location	72-88 Water Street, Belfield NSW			Started	03 July 2025	
Client	JRB Terrigal			Completed	04 July 2025	
Job No.	E26573			Logged By	JF	Date 04 July 2025
Sheets	1 of 3			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.30 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247169.0 (MGA 2020 Zone 56)	
				Easting	322820.8 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA		BH2M_0.20-0.30 PID = 0.1 PPM		0.00		16.30	FILL: Gravelly CLAY: low plasticity, dark grey brown, fine to medium grained ironstone gravel, trace of root fibres	M > PL	-	FILL
		BH2M_0.50-0.95 SPT 0.50-0.95 3,3,5 N=8 BH2M_0.70-0.80 PID = 0 PPM		0.40		15.90	Silty CLAY: high plasticity, orange brown mottled red brown, trace of fine to medium grained ironstone gravel	M > PL	F	RESIDUAL SOIL
				1.20		15.10	From 1.20m, As above, but light grey and red brown			
		BH2M_1.50-1.95 SPT 1.50-1.95 7,12,12 N=24		2.00					VSt	
		BH2M_3.00-3.25 SPT 3.00-3.25 12,9/100 mm N=R		3.00						
				3.80		12.50	Silty CLAY: medium plasticity, light grey mottled red brown, trace of fine to medium grained ironstone gravel, grading into extremely weathered Siltstone	M < PL		
		BH2M_4.20-4.50		4.00					H	
		BH2M_4.50-4.95 SPT 4.50-4.95 8,12,26 N=38		5.00						
				5.70		10.60	Silty CLAY: medium plasticity, dark grey mottled red brown, with fine to medium grained ironstone gravel		H	
		SPT 6.00-6.35 6,10,13/50 mm HB N=R BH2M_6.30-6.35		6.30		10.00	SILTSTONE: dark grey, with iron indurated bands, inferred low strength			WEATHERED ROCK
		BH2M_6.90-7.30		6.90		9.40	From 6.90m, As above, but inferred low to medium strength	-	-	
				8.09		8.21	Log continued on next page.			
				9.00						
				10.00						



BOREHOLE CORE LOG

BH ID: BH2M

Location	72-88 Water Street, Belfield NSW			Started	03 July 2025		
Client	JRB Terrigal			Completed	04 July 2025		
Job No.	E26573			Logged By	JF	Date	04 July 2025
Sheets	2 of 3			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.30 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247169.0 (MGA 2020 Zone 56)		
				Easting	322820.8 (MGA 2020 Zone 56)		

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			Log continued from previous page.		VL 0-1 L 0-3 M 1 H 3 VH 10 EH		30 100 300 1000 3000
				1							
				2							
				3							
				4							
				5							
				6							
				7							
				8							
NMLC	80% Water	100	89	9			SILTSTONE: dark grey, with iron indurated bands, laminated at 0°-5°	HW	▼	8.19-8.25: XWS 8.27: BP 0° PR SM Clay VN 8.33: JT 0° PR SM Clay VN 8.44: JT 40° PR SM Fe SN 8.69-8.70: XWS	
				9.66		6.64	SILTSTONE: dark grey, with sandstone laminae, laminated at 0°-5°	SW	▼	9.46: JT 60-70° PR SM CN 9.70: JT 90° PR SM CN	
				10							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

Review By STP **Date** 05 August 2025

Easting 322820.8 (MGA 2020 Zone 56)

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH2M

Location	72-88 Water Street, Belfield NSW			Started	03 July 2025	
Client	JRB Terrigal			Completed	04 July 2025	
Job No.	E26573			Logged By	JF	Date 04 July 2025
Sheets	2 of 2			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈16.30 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247169.0 (MGA 2020 Zone 56)	
				Easting	322820.8 (MGA 2020 Zone 56)	

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		21		3.60				
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						
		31						
		32						
		33						
		34						
		35						
		36						
		37						
		38						
		39						
		40						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH1M

Location	72-88 Water Street, Belfield NSW			Started	30 June 2025	
Client	JRB Terrigal			Completed	30 June 2025	
Job No.	E26573			Logged By	JF	Date 30 June 2025
Sheets	1 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈19.20 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247116.6 (MGA 2020 Zone 56)	
				Easting	322803.3 (MGA 2020 Zone 56)	

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH1M_0.20-0.30 PID = 0 PPM		0.00		19.20	FILL: Sandy CLAY: low plasticity, dark grey, fine to medium grained sand, trace of root fibres	M < PL		FILL
		BH1M_0.50-0.95 SPT 0.50-0.95 4,5,9 N=14 BH1M_0.70-0.80 PID = 0.2 PPM		0.50		18.70	Silty CLAY: high plasticity, brown and red brown, trace of fine to medium grained sub-rounded ironstone gravel	M > PL	St	RESIDUAL SOIL
				1.10		18.10	From 1.10m, As above, but light grey and red brown			
		BH1M_1.50-1.95 SPT 1.50-1.95 8,12,16 N=28		2.00						
		BH1M_3.00-3.45 SPT 3.00-3.45 7,10,11 N=21		3.00					VSt	
				4.00				M < PL		
		SPT 4.50-4.95 7,8,13 N=21 BH1M_4.60-4.95		4.60		14.60	Silty CLAY: medium plasticity, light grey			
				5.00						
				5.80		13.40	From 5.80m, As above, but trace of fine to medium grained ironstone gravel			
		BH1M_6.00-6.30 SPT 6.00-6.30 13,27/150 mm HB N=R		6.00					H	
				7.00		12.10	SILTSTONE: dark grey, with iron indurated bands, inferred very low strength	-	-	WEATHERED ROCK
				7.53		11.67	Log continued on next page.			
				8.00						
				9.00						
				10.00						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH1M

Location	72-88 Water Street, Belfield NSW			Started	30 June 2025		
Client	JRB Terrigal			Completed	30 June 2025		
Job No.	E26573			Logged By	JF	Date	30 June 2025
Sheets	2 of 4			Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈19.20 m (AHD)		
Plant	Comacchio Geo 205			Inclination	90°		
				Northing	6247116.6 (MGA 2020 Zone 56)		
				Easting	322803.3 (MGA 2020 Zone 56)		

METHOD				FLUSH RETURN				TCR %				ROD %				DEPTH (m)				GRAPHIC LOG				RL (m AHD)				MATERIAL DESCRIPTION				WEATHERING				ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral				DISCONTINUITIES & ADDITIONAL DATA				FRACTURE SPACING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
NMLC				95% Water				100				23				100				100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															



BOREHOLE CORE LOG

BH ID: BH1M

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025		
Client	JRB Terrigal	Completed	30 June 2025		
Job No.	E26573	Logged By	JF	Date	30 June 2025
Sheets	3 of 4	Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈19.20 m (AHD)	Northing	6247116.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	322803.3 (MGA 2020 Zone 56)

METHOD	FLUSH RETURN	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
									VL 0-1 L 0-3 M 1 H 3 VH 10 EH		
NMLC	95% Water	100	90	11			SILTSTONE: dark grey, laminated at 0°-5°				
		100	90	11.81		7.39	From 11.81m, with a trace of fine grained sandstone laminae			11.24: JT 30° PR SM CN 11.46: BP 0° PR SM CLAY Infilled 11.75-11.82: XWS CLAY 11.87: JT 70° PR RO Clay VN 11.88: JT 85° PR RO Clay VN 12.11: JT 45° PR SM CN 12.15: BP 0° PR SM SN 12.40: BP 0° PR SM Clay VN 13.47: JT 50° PR SM CN 13.54-13.56: CS 14.23-14.24: CS 14.29: JT 60° PR SM CN 14.37: JT 70° PR SM CN 14.40: JT 30° PR SM CN 14.42: JT 65° PR SM CN 14.59: JT 70° CU SM CN 15.26: JT 60° PR SM CN 16.12: JT 75° PR SM CN 16.30: JT 80-90° CU SM CN 16.34: JT 65° PR SM CN 16.38: JT 25° PR SM CN 16.44: JT 30° PR SM CN 16.49: JT 35° PR SM CN 16.51: BP 0° PR SM Clay VN 16.65: BP 0° PR SM CN 19.60-19.62: CS 19.75: BP 0° PR SM CN	
		100	89	17				FR			
		100	98	19							
				20							

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



BOREHOLE CORE LOG

BH ID: BH1M

Location	72-88 Water Street, Belfield NSW			Started	30 June 2025	
Client	JRB Terrigal			Completed	30 June 2025	
Job No.	E26573			Logged By	JF	Date 30 June 2025
Sheets	4 of 4			Review By	STP	Date 05 August 2025
Drilling Contractor	Geosense Drilling Engineers			Surface RL	≈19.20 m (AHD)	
Plant	Comacchio Geo 205			Inclination	90°	
				Northing	6247116.6 (MGA 2020 Zone 56)	
				Easting	322803.3 (MGA 2020 Zone 56)	

NMLC METHOD	95% Waterflush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
						0.98	From 11.81m, with a trace of fine grained sandstone laminae Terminated at 20.18m. Target Depth Reached.	FR												
				21																
				22																
				23																
				24																
				25																
				26																
				27																
				28																
				29																
				30																

This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH1M

Location	72-88 Water Street, Belfield NSW	Started	30 June 2025		
Client	JRB Terrigal	Completed	30 June 2025		
Job No.	E26573	Logged By	JF	Date	30 June 2025
Sheets	1 of 1	Review By	STP	Date	05 August 2025
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈19.20 m (AHD)	Northing	6247116.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	322803.3 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
GWNE	BH1M_0.20-0.30 PID = 0 PPM BH1M_0.50-0.95 SPT 0.50-0.95 4,5,9 N=14 BH1M_0.70-0.80 PID = 0.2 PPM BH1M_1.50-1.95 SPT 1.50-1.95 8,12,16 N=28	0.00		19.20	FILL: Sandy CLAY: low plasticity, dark grey, fine to medium grained sand, trace of root fibres	M < PL	Steel Cover at Surface	Well Stickup = -0.10m (RL 19.10m)
	BH1M_3.00-3.45 SPT 3.00-3.45 7,10,11 N=21	0.50		18.70	Silty CLAY: high plasticity, brown and red brown, trace of fine to medium grained sub-rounded ironstone gravel	M > PL		
	BH1M_4.60-4.95 SPT 4.50-4.95 7,8,13 N=21	1.10		18.10	From 1.10m, As above, but light grey and red brown			
	BH1M_6.00-6.30 SPT 6.00-6.30 13,27/150 mm HB N=R	2.00		17.20				
95% Water		3.00		16.30	Silty CLAY: medium plasticity, light grey	M < PL	Sand 0.10m - 7.40m	
		4.60		14.60	From 5.80m, As above, but trace of fine to medium grained ironstone gravel			0.10m - 11.28m PVC casing (50mm Ø)
		5.80		13.40	SILTSTONE: dark grey, with iron indurated bands, inferred very low strength	-		
		7.10		12.10	SILTSTONE: dark grey, with a trace of iron indurated bands, laminated at 0°-5°			
		7.53		11.67	Silty CLAY: medium plasticity, dark grey			
		7.93		11.27				
		9.25		9.95	SILTSTONE: dark grey, laminated at 0°-5°		Bentonite 7.40m - 10.90m	
		11.81		7.39	From 11.81m, with a trace of fine grained sandstone laminae			
		13.00						
		14.00						
		15.00					Sand 10.90m - 17.28m	11.28m - 17.28m PVC screen (50mm Ø)
		16.00						
		17.00						
		18.00					Bentonite 17.28m - 17.50m	
		19.00						
		20.00					Sand 17.50m - 20.18m	
		20.18			Terminated at 20.18m. Target Depth Reached.			
		21.00						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

Appendix E – Field Data Sheets

WATER SAMPLING FIELD SHEET



Belfield

Site Address: 72-88 Water Street		Job Number: E26573						
Client: SRR Terrigal		Date: 25/7/25						
Field Staff: AL		Sampling Location ID: BHF1M						
Well Location: See figure		Round No:						
MEDIUM ☒ Groundwater ☐ Surface Water ☐ Stormwater ☐ Other:								
SAMPLING POINT INFO								
Well Installation Date: See logs		Stick up / down (m): -0.05 (+ above ground - below ground)						
Initial Well Depth (mBTOC): See logs		Screen Interval (mBTOC): See logs						
Previous Sampling Date: See logs		Previous SWL (mBTOC):						
PID READINGS								
PID Headspace (ppm): 6.7		PID Background (ppm): 0						
PID Breathing Space (ppm): 0								
PRE PURGE								
Total Well Depth (mBTOC): 16.30		Well Head Condition: Good						
SWL (mBTOC): 10.49		Water Column (m): 5.81						
PHASE SEPARATED HYDROCARBONS (PSH)								
Depth to PSH (mBTOC): —		PSH Visually Confirmed (Bailer): —						
PSH Thickness (mm): —								
Field Filtered								
Yes (0.45 µm) ☒		No ☐ (Request lab 0.45 µm filter the sample)						
PURGE AND SAMPLE								
Sampling Method ☒ Bladder ☐ Peristaltic ☐ Submersible ☐ Other:								
Depth of Pump Inlet (mBTOC): 15.3		Fill Timer: 40						
Pump Pressure Regulator (psi): 25		Discharge Timer: 20						
Weather Conditions: Sunny		Cycle: 1						
Pump on time: 12:20		Pump off time: 14:02						
WATER QUALITY PARAMETERS								
Probe Make and Model:		Bump Test Date and Time:						
Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
12:25	0.5	10.52	16.52	6394	145.2	6.33	5.31	slightly grey, low-met, no, no
12:30	1	10.54	16.52	6294	139.7	6.33	5.31	
12:35	1.5	10.56	16.53	6237	138.6	6.31	5.31	
12:40	2	10.58	16.52	6232	138.7	6.32	5.31	
12:45	2.5	10.60	16.52	6238	138.4	6.33	5.31	
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	
OTHER COMMENTS/OBSERVATIONS:								
DPE sample QP25/7 QT25/7								
SIGNATURE:								

Belfield

Z:\11 - Templates\Field Forms Worksheets\Water Sampling Field Sheet 2015\Water Sampling Field Sheet Current June 2021

Appendix F – Chain of Custody and Sample Receipt Documentation



SAMPLE RECEIPT ADVICE

SE285865

CLIENT DETAILS

Contact Antony Lo
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Mon 30/6/2025
Report Due Tue 15/7/2025
SGS Reference **SE285865**

SUBMISSION DETAILS

This is to confirm that 24 samples were received on Monday 30/6/2025. Results are expected to be ready by COB Tuesday 15/7/2025. Please quote SGS reference SE285865 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	23 Soil, 1 Water	Type of documentation received	COC
Date documentation received	9/7/2025@10:02am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	23.3°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

COMMENTS

5 Soil and 1 Water samples have been placed on hold as no tests have been assigned for it. These samples will not be processed.
HA4_0.7-0.8 not received.
QT forwarded to Envirolab

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CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573 72-88 Water Street, Belfield**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	HA1_0.2-0.3	27	14	26	9	7	10	11	7
002	HA2_0.2-0.3	27	14	26	9	7	10	11	7
003	HA3_0.2-0.3	27	14	26	9	7	10	11	7
004	HA4_0.2-0.3	27	14	26	9	7	10	11	7
005	HA5_0.2-0.3	27	14	26	9	7	10	11	7
006	HA6_0.2-0.3	27	14	26	9	7	10	11	7
007	HA7_0.2-0.3	27	14	26	9	7	10	11	7
008	HA8_0.2-0.3	27	14	26	9	7	10	11	7
009	BH1M_0.2-0.3	27	14	26	9	7	10	11	7
010	BH1M_0.7-0.8	-	-	26	-	7	10	11	7
011	HA3_0.7-0.8	-	-	26	-	7	10	11	7
012	HA6_0.7-0.8	-	-	26	-	7	10	11	7
013	HA8_0.7-0.8	-	-	26	-	7	10	11	7
014	QD30/6	-	-	-	-	7	10	11	7
016	TS30/6	-	-	-	-	-	-	9	-
017	TB30/6	-	-	-	-	-	-	11	-
018	BH2M_0.2-0.3	27	14	26	9	7	10	11	7
019	BH3_0.2-0.3	27	14	26	9	7	10	11	7
020	BH4_0.2-0.3	27	14	26	9	7	10	11	7
021	BH5M_0.2-0.3	27	14	26	9	7	10	11	7
022	BH3_0.7-0.8	-	-	26	-	7	10	11	7
023	BH4_0.7-0.8	-	-	26	-	7	10	11	7
024	BH5M_0.7-0.8	-	-	26	-	7	10	11	7

CONTINUED OVERLEAF

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

CLIENT DETAILS

Client EIA AUSTRALIA

Project E26573 72-88 Water Street, Belfield

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	VOCs in Water
001	HA1_0.2-0.3	3	1	1	-
002	HA2_0.2-0.3	3	1	1	-
003	HA3_0.2-0.3	3	1	1	-
004	HA4_0.2-0.3	3	1	1	-
005	HA5_0.2-0.3	3	1	1	-
006	HA6_0.2-0.3	3	1	1	-
007	HA7_0.2-0.3	3	1	1	-
008	HA8_0.2-0.3	3	1	1	-
009	BH1M_0.2-0.3	3	1	1	-
010	BH1M_0.7-0.8	-	1	1	-
011	HA3_0.7-0.8	-	1	1	-
012	HA6_0.7-0.8	-	1	1	-
013	HA8_0.7-0.8	-	1	1	-
014	QD30/6	-	1	1	-
015	QR30/6	-	-	-	11
017	TB30/6	-	-	1	-
018	BH2M_0.2-0.3	3	1	1	-
019	BH3_0.2-0.3	3	1	1	-
020	BH4_0.2-0.3	3	1	1	-
021	BH5M_0.2-0.3	3	1	1	-
022	BH3_0.7-0.8	-	1	1	-
023	BH4_0.7-0.8	-	1	1	-
024	BH5M_0.7-0.8	-	1	1	-

CONTINUED OVERLEAF

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

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

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

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



SAMPLE RECEIPT ADVICE

SE285865

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573 72-88 Water Street, Belfield**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	Volatile Petroleum Hydrocarbons in Water
015	QR30/6	1	7	9	7

DRAFT

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 .

COC: 09/07/2025 1212

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis															Comments				
Site: 72-88 Water Street, Belfield			Project No: E26573		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM ^A /TRH/BTEX/PAHs	HM ^A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	Excavated Natural Material (ENM) Suite	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	TCLP HM ^B / PAH	HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory: Envirolab Services 12 Ashley Street, CHATSWOOD NSW 2067 P: 02 9910 6200		Sample ID	Laboratory ID	Container Type																						
					Date	Time																				
QT30/6	1	J	30/06/2025	AM	X						X														Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol Turbidity	
																									LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____	

Container Type:
 J = solvent washed, acid rinsed, Teflon sealed glass jar
 S = solvent washed, acid rinsed glass bottle
 P = natural HDPE plastic bottle
 VC = glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI):		Received by (Envirolab):	
Print	Antony Lo	Print	Envirolab
Signature		Signature	
Date	9/07/2025	Date	9/7/25

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

Report with EI Waste Classification Table ☐

Sampler's Comments:

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200

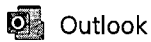
Job No: 385470

Date Received: 9/7/25
 Time Received: 1550
 Received By: CM
 Temp: Cool/Ambient
 Cooling: Ice/Icepack
 Security: Intact/Broken/None

Contamination & Remediation & Geotechnical

Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au

COC June 2021 FORM v.5 - Envirolab



Outlook

Re: E26573 - COC

From Antony Lo - ElAustralia <antony.lo@eiaustralia.com.au>

Date Wed 09/07/2025 18:14

To Grace Zhang <GZhang@envirolab.com.au>; Envirolab Sydney Sample Receipt <Samplereceipt@envirolab.com.au>; Customer Service <CustomerService@envirolab.com.au>

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi grace

This will be the correct sample

Thanks

Get [Outlook for Android](#)

From: Grace Zhang <GZhang@envirolab.com.au>

Sent: Wednesday, July 9, 2025 5:43:45 PM

To: Antony Lo - ElAustralia <antony.lo@eiaustralia.com.au>; Envirolab Sydney Sample Receipt <Samplereceipt@envirolab.com.au>; Customer Service <CustomerService@envirolab.com.au>

Subject: Re: E26573 - COC

ATTENTION: This email originated from outside your organization and might have suspicious subject or content. PLEASE DO NOT CLICK ANY LINKS AND/OR OPEN ANY ATTACHMENTS UNLESS YOU CAN CONFIRM THE SENDER.

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Antony,

We received a sample for E26573, however, the sample was labelled QT1.
Was the sample intended for this COC?

Thanks

Kind Regards,

Grace Zhang | Client Services Officer | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067

T 612 9910 6200

E GZhang@envirolab.com.au | W www.envirolab.com.au

Follow us on: [LinkedIn](#) | [Facebook](#) | [Twitter](#)

Samples will be analysed per our T&C's.

From: Grace Zhang <GZhang@envirolab.com.au>

Sent: Wednesday, 9 July 2025 12:50

To: Antony Lo - ElAustralia <antony.lo@eiaustralia.com.au>; Simon Song <SSong@envirolab.com.au>; Envirolab Sydney Sample Receipt <Samplereceipt@envirolab.com.au>; Customer Service <CustomerService@envirolab.com.au>

Subject: Re: E26573 - COC

Thanks Antony

Kind Regards,

Grace Zhang | Client Services Officer | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067

T 612 9910 6200

E GZhang@envirolab.com.au | W www.envirolab.com.au

385470
917125 1550
cm

cc: 16/8/25 1727

[illegible]

387001

SE286801



Sheet 1 of 1					Sample Matrix										Analysis										Comments							
Site: 72-88 <i>Water Site</i> <i>Belfield</i>					Project No: C26513																											
Laboratory: SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																																
Sample ID	Laboratory ID	Container Type	Sampling		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^A /TRH (including F1, F2, F3, F4)/BTEX/PAHs/OCPI/OP/PCBI/Asbestos	HM ^A /TRH (including F1, F2, F3, F4)/BTEX/PAHs	HM ^A /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500ml)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM ^A /pH / EC / Foreign Materials)	Dewatering Suite	<i>DPLE Suite (4.1)</i>	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM ^B / PAH	HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel		
			Date	Time																												
BH1M		51004	25/7	25 PM		X																									Dewatering Suite	
BH2M		51004	25/7	25 PM																												pH & EC
BH5M		51004	25/7	25 PM																												TDS / TOU
QR25/7		51004	25/7	25 PM																												Hardness
QR25/7		51004	25/7	25 PM																												Total Cyanide
TS25/7		51004	25/7	25 PM																												Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TR25/7		51004	25/7	25 PM																												TRH (F1, F2, F3, F4)
RR25/7		51004	25/7	25 PM																												BTEX
																																PAH
																																Total Phenol

12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 5250
 Job No: 137661
 Date Received: 25/7/25
 Time Received: 16:20
 Received By: [Signature]
 Temp: 20°C / Ambient
 Cooling: Ice/icepack
 Sample: [Signature]

Container Type:
 J = solvent washed, acid rinsed, Teflon sealed glass jar
 S = solvent washed, acid rinsed glass bottle
 P = natural HDPE plastic bottle
 VC = glass vial, Teflon Septum
 ZLB = Zip-Lock Bag BB = Bulk Bag

PF, PFA, BULK

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):		Received by (SGS):	
Print	<i>Anthony Lo</i>	Print	
Signature	[Signature]	Signature	
Date	25/7/25	Date	

Sampler's Comments:
 1) Please CC Sg's
 2) Please forward QR25/7e
 enw lab

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

Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au
 COC November 2024 FORM v.6 - SGS

Source: SE_Autoscan.pdf page: 1 SGS Ref: SE288801_COC



SAMPLE RECEIPT ADVICE

SE286801

CLIENT DETAILS

Contact Antony Lo
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573,72-88 Water Belfield**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Fri 25/7/2025
Report Due Mon 4/8/2025
SGS Reference **SE286801**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Friday 25/7/2025. Results are expected to be ready by COB Monday 4/8/2025. Please quote SGS reference SE286801 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	25/7/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

1 sample has been placed on hold as no tests have been assigned for it. This sample will not be processed.
QT25/7 forwarded to Envirolab.

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CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573,72-88 Water Belfield**

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	pH in water	Total Dissolved Solids (TDS) in water	Total Phenolics in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH1M	1	23	1	1	-	9	11	7
002	BH2M	1	23	1	1	1	9	78	7
003	BH5M	1	23	1	1	1	9	78	7
004	QD 25/7	-	-	-	-	-	9	11	7
005	QR 25/7	-	-	-	-	-	9	11	7
006	TS 25/7	-	-	-	-	-	-	11	-
007	TB 25/7	-	-	-	-	-	-	11	-

DRAFT

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

SE286801

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573,72-88 Water Belfield**

SUMMARY OF ANALYSIS

No.	Sample ID	Alkalinity	Ammonia Nitrogen by Discrete Analyser	Anions by Ion Chromatography in Water	Calculation of Anion-Cation Balance	Dissolved Oxygen by Membrane Electrode	Forms of Carbon	Nitrite in Water	Total and Volatile Suspended Solids (TSS /	Total Cyanide in water by Discrete Analyser	Turbidity
001	BH1M	10	1	5	4	3	1	2	1	-	1
002	BH2M	-	-	-	-	-	-	-	-	1	1
003	BH5M	-	-	-	-	-	-	-	-	1	1

DRAFT

CONTINUED OVERLEAF

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

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573,72-88 Water Belfield**

SUMMARY OF ANALYSIS

No.	Sample ID	E. coli and Thermotolerant coliforms in Water (CFU)	Enterococci in Water	Filterable Reactive Phosphorus (FRP)	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	Redox Potential (Eh) in water	TKN Kjeldahl Digestion by Discrete Analyser	Total Phosphorus by Kjeldahl Digestion DA in	Trace Metals (Dissolved) in Water by ICPMS
001	BH1M	3	3	1	1	9	2	2	1	21
002	BH2M	-	-	-	1	3	-	-	-	8
003	BH5M	-	-	-	1	3	-	-	-	8
004	QD 25/7	-	-	-	1	-	-	-	-	7
005	QR 25/7	-	-	-	1	-	-	-	-	7

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

Yin, Emily (Alexandria)

From: Antony Lo - ElAustralia <antony.lo@eiaustralia.com.au>
Sent: Tuesday, 5 August 2025 1:57 PM
To: AU.Environmental.Sydney, AU (Sydney); AU.SampleReceipt.Sydney, AU (Sydney)
Cc: Sergio Raposeira - ElAustralia
Subject: [EXTERNAL] RE: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS team,

Can you please test for PFAS for all samples.

For BH1M can you please perform the test on the outstanding analytes under "other" in the DPIE Table A2 as below. I believe these were missed

Other	Range of analytes relevant to site-specific contaminants of environmental concern — for example: - pesticides (OCPS, OPPs) - polychlorinated biphenyls (PCBs) - semivolatile chlorinated hydrocarbons (SVOCs) - volatile chlorinated hydrocarbons (VOCs) - chlorinated aliphatics - phenols - perfluoroalkyl and polyfluoroalkyl substances (PFAS)	As required by the NSW EPA or accredited site auditor (for properties regulated under the <i>Contaminated Land Management Act 1997</i>), on the advice of a specialist environmental consultant or as required by another regulatory body

All jobs to be on a standard TAT

Kind regards,

Antony Lo
BEnvMgmt
Environmental Scientist
T 02 9516 0722
E antony.lo@eiaustralia.com.au
Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009
www.eiaustralia.com.au



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SAMPLE RECEIPT ADVICE

SE286801B

CLIENT DETAILS

Contact Antony Lo
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573,72-88 Water Belfield - Additional**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Tue 5/8/2025
Report Due Mon 11/8/2025
SGS Reference **SE286801B**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Tuesday 5/8/2025. Results are expected to be ready by COB Monday 11/8/2025. Please quote SGS reference SE286801B when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	1 Water	Type of documentation received	Email
Date documentation received	5/8/2025@1:57pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

SE286801B

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573,72-88 Water Belfield - Additional**

SUMMARY OF ANALYSIS

No.	Sample ID	Full 8270 SVOC in Water	OC Pesticides in Water	OP Pesticides in Water	PCBs in Water	Per- and Polyfluoroalkyl Substances (PFAS) in	Total Phenolics in Water	VOCs in Water
001	BH1M	167	26	13	9	60	1	78

DRAFT

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 .

Yin, Emily (Alexandria)

From: AU.Environmental.Sydney, AU (Sydney)
Sent: Monday, 4 August 2025 1:54 PM
To: AU.SampleReceipt.Sydney, AU (Sydney)
Subject: FW: [EXTERNAL] RE: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

Hi SR,
Pls book an A job for TRH silica gel clean up. And RE job for Btex for sample BH5M .

Thanks

Rita Azzi

Industries and Environment
Client Services Representative

SGS Australia Pty Ltd

Unit 16, 33 Maddox Street

Alexandria, NSW, 2015

Phone: +61 (0)2 8594 0400

Direct: +61 (0)2 8594 3309

E-mail: Rita.azzi@sgs.com

General E-mail : au.environmental.sydney@sgs.com

Web: www.au.sgs.com

SGS EHS Alexandria Laboratory



SE286801A COC

Received: 04 - Aug - 2025

Working Monday to Friday : 10 to 6pm



From: Sergio Raposeira - EIAustralia <sergio.raposeira@eiaustralia.com.au>

Sent: Monday, 4 August 2025 1:49 PM

To: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@SGS.com>; Antony Lo - EIAustralia <antony.lo@eiaustralia.com.au>; Laboratory Results - EIAustralia <lab@eiaustralia.com.au>

Subject: [EXTERNAL] RE: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS,

Is it possible to run TRH silica gel cleanup at BH5M?
Please send the chromatograms along with the SGC.

Note: is it possible to rerun toluene (BH5M) for QA/QC purposes?

Many thanks Sergio

Best Regards

Sergio Raposeira
BSc (Env), MSc
Environmental Engineer
CEnvP Cert. No: 1959

T 02 9516 0722 M 04 8451 9661
E sergio.raposeira@eiaustralia.com.au

Suite 6.01, 55 Miller Street
Pyrmont, NSW 2009

www.eiaustralia.com.au



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From: AU.Environmental.Sydney@SGS.com [mailto:AU.Environmental.Sydney@SGS.com]

Sent: Monday, 4 August 2025 1:10 PM

To: Antony Lo - EIAustralia; Laboratory Results - EIAustralia; Sergio Raposeira - EIAustralia

Subject: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

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CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dear Valued Customer,

Please find attached the report for SGS job SE286801, your reference E26573,72-88 Water Belfield, order number E26573.

If you have any questions or concerns, please don't hesitate to contact your SGS Client Services representative.

Please provide any feedback you have on our service via this link

https://sgssurveys.qualtrics.com/jfe/form/SV_6fbPVjB8TRGUXKC?utm_source=Feedback&utm_medium=email&utm_campaign=Survey

Yin, Emily (Alexandria)

From: Sergio Raposeira - EIAustralia <sergio.raposeira@eiaustralia.com.au>
Sent: Monday, 4 August 2025 2:25 PM
To: AU.Environmental.Sydney, AU (Sydney); Antony Lo - EIAustralia; Laboratory Results - EIAustralia
Cc: AU.SampleReceipt.Sydney, AU (Sydney)
Subject: RE: book A and RE RE: [EXTERNAL] RE: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Standard TAT please.

Best Regards

Sergio Raposeira
BSc (Env), MSc
Environmental Engineer
CEnvP Cert. No: 1959
T 02 9516 0722 M 04 8451 9661
E sergio.raposeira@eiaustralia.com.au
Suite 6.01, 55 Miller Street
Pymont, NSW 2009
www.eiaustralia.com.au



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 Please consider the environment before printing this email.

From: AU.Environmental.Sydney, AU (Sydney) [mailto:AU.Environmental.Sydney@SGS.com]
Sent: Monday, 4 August 2025 2:22 PM
To: Sergio Raposeira - EIAustralia; Antony Lo - EIAustralia; Laboratory Results - EIAustralia
Cc: AU.SampleReceipt.Sydney, AU (Sydney)
Subject: book A and RE RE: [EXTERNAL] RE: Report Job SE286801, your reference E26573,72-88 Water Belfield, order number E26573

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SAMPLE RECEIPT ADVICE

SE286801A

CLIENT DETAILS

Contact Antony Lo
Client EIAUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573,72-88 Water Belfield - Additional**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

Samples Received Mon 4/8/2025
Report Due Mon 11/8/2025
SGS Reference **SE286801A**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Monday 4/8/2025. Results are expected to be ready by COB Monday 11/8/2025. Please quote SGS reference SE286801A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	1 Water	Type of documentation received	Email
Date documentation received	4/8/2025@1:49pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

SE286801A

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26573,72-88 Water Belfield - Additional**

SUMMARY OF ANALYSIS

No.	Sample ID	Technical Documents Appended for Water	TRH Silica Gel (Total Recoverable
003	BH5M	1	9

DRAFT

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

Appendix G – Laboratory Analytical Reports

CLIENT DETAILS

Contact Antony Lo
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE285865 R0**
Date Received 30/6/2025
Date Reported 15/7/2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Akheeqar BENIAMEN
Chemist



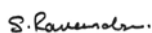
Dong LIANG
Metals/Inorganics Team Leader



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader



Shane MCDERMOTT
Laboratory Manager



ANALYTICAL RESULTS

SE285865 R0

VOC's in Soil [AN433] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	TS30/6
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	30/6/2025 SE285865.016
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[104%]
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[103%]
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[104%]
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	[110%]
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[111%]
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	-
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TB30/6	BH2M_0.2-0.3	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.017	8/7/2025 SE285865.018	8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
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



ANALYTICAL RESULTS

SE285865 R0

VOC's in Soil [AN433] Tested: 9/7/2025 (continued)

			BH3_0.7-0.8	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
			SE285865.022	SE285865.023	SE285865.024
PARAMETER	UOM	LOR			
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 9/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL - 30/6/2025 SE285865.001	SOIL - 30/6/2025 SE285865.002	SOIL - 30/6/2025 SE285865.003	SOIL - 30/6/2025 SE285865.004	SOIL - 30/6/2025 SE285865.005
PARAMETER	UOM	LOR					
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

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL - 30/6/2025 SE285865.006	SOIL - 30/6/2025 SE285865.007	SOIL - 30/6/2025 SE285865.008	SOIL - 30/6/2025 SE285865.009	SOIL - 30/6/2025 SE285865.010
PARAMETER	UOM	LOR					
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

			HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL - 30/6/2025 SE285865.011	SOIL - 30/6/2025 SE285865.012	SOIL - 30/6/2025 SE285865.013	SOIL - 30/6/2025 SE285865.014	SOIL - 8/7/2025 SE285865.018
PARAMETER	UOM	LOR					
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

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL - 8/7/2025 SE285865.019	SOIL - 8/7/2025 SE285865.020	SOIL - 8/7/2025 SE285865.021	SOIL - 8/7/2025 SE285865.022	SOIL - 8/7/2025 SE285865.023
PARAMETER	UOM	LOR					
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

			BH5M_0.7-0.8
			SOIL - 8/7/2025 SE285865.024
PARAMETER	UOM	LOR	
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	74	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	74	<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	130	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	150	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	81	<45	<45	56	<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	110	<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	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	8/7/2025 SE285865.018
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	48	<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



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 9/7/2025 (continued)

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025	8/7/2025	8/7/2025	8/7/2025	8/7/2025
			SE285865.019	SE285865.020	SE285865.021	SE285865.022	SE285865.023
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
			SE285865.024
PARAMETER	UOM	LOR	
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-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210



ANALYTICAL RESULTS

SE285865 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.2	<0.1	0.2	0.2	<0.1
Pyrene	mg/kg	0.1	0.2	<0.1	0.3	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	0.1	0.1	<0.1	0.2	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	<0.1	0.3	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.1	<0.1	0.2	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.2	<0.1	0.3	0.2	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	<0.1	0.2	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	0.2	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	0.4	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.3	<0.3	0.5	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.3	<0.2	0.4	0.3	<0.2
Total PAH (18)	mg/kg	0.8	1.1	<0.8	2.1	1.1	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	1.1	<0.8	2.1	1.1	<0.8

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	0.5	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	0.6	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.2	<0.2	<0.2	0.6	<0.2
Total PAH (18)	mg/kg	0.8	0.8	<0.8	<0.8	2.9	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	0.8	<0.8	<0.8	2.9	<0.8



ANALYTICAL RESULTS

SE285865 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 9/7/2025 (continued)

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	BH2M_0.2-0.3	BH3_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 30/6/2025 SE285865.011	- 30/6/2025 SE285865.012	- 30/6/2025 SE285865.013	- 8/7/2025 SE285865.018	- 8/7/2025 SE285865.019
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	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 8/7/2025 SE285865.020	- 8/7/2025 SE285865.021	- 8/7/2025 SE285865.022	- 8/7/2025 SE285865.023	- 8/7/2025 SE285865.024
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	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	0.2	<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	0.2	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	0.3	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.2	<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	0.2	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	0.3	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	0.4	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	0.4	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	1.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	1.8	<0.8	<0.8	<0.8



ANALYTICAL RESULTS

SE285865 R0

OP Pesticides in Soil [AN420] Tested: 9/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
PARAMETER	UOM	LOR	SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.019	SE285865.020	SE285865.021
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
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	0.2	<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	0.2	<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



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025 (continued)

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
			SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
PARAMETER	UOM	LOR					
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



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025 (continued)

PARAMETER	UOM	LOR	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

PCBs in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	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	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	8/7/2025 SE285865.018
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	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	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 30/6/2025 SE285865.001	- 30/6/2025 SE285865.002	- 30/6/2025 SE285865.003	- 30/6/2025 SE285865.004	- 30/6/2025 SE285865.005
Arsenic, As	mg/kg	1	7	4	5	6	3
Cadmium, Cd	mg/kg	0.3	0.6	1.0	<0.3	0.6	<0.3
Chromium, Cr	mg/kg	0.5	19	10	11	13	17
Copper, Cu	mg/kg	0.5	67	17	10	53	3.4
Lead, Pb	mg/kg	1	260	190	48	190	25
Nickel, Ni	mg/kg	0.5	3.3	4.9	2.2	3.9	1.4
Zinc, Zn	mg/kg	2	180	970	57	380	15

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 30/6/2025 SE285865.006	- 30/6/2025 SE285865.007	- 30/6/2025 SE285865.008	- 30/6/2025 SE285865.009	- 30/6/2025 SE285865.010
Arsenic, As	mg/kg	1	4	6	3	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	5.6	16	6.3	13	28
Copper, Cu	mg/kg	0.5	13	11	7.2	13	<0.5
Lead, Pb	mg/kg	1	74	49	39	85	16
Nickel, Ni	mg/kg	0.5	2.4	2.2	1.3	2.5	<0.5
Zinc, Zn	mg/kg	2	65	88	31	62	5.8

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 30/6/2025 SE285865.011	- 30/6/2025 SE285865.012	- 30/6/2025 SE285865.013	- 30/6/2025 SE285865.014	- 8/7/2025 SE285865.018
Arsenic, As	mg/kg	1	2	2	2	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	26	19	22	13	18
Copper, Cu	mg/kg	0.5	<0.5	1.3	<0.5	17	6.8
Lead, Pb	mg/kg	1	14	13	11	94	22
Nickel, Ni	mg/kg	0.5	1.0	0.7	0.7	4.4	1.2
Zinc, Zn	mg/kg	2	6.0	7.3	5.2	83	27

PARAMETER	UOM	LOR	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 8/7/2025 SE285865.019	- 8/7/2025 SE285865.020	- 8/7/2025 SE285865.021	- 8/7/2025 SE285865.022	- 8/7/2025 SE285865.023
Arsenic, As	mg/kg	1	4	3	3	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	21	15	8.7	15	14
Copper, Cu	mg/kg	0.5	0.8	3.3	28	2.4	<0.5
Lead, Pb	mg/kg	1	15	13	130	11	11
Nickel, Ni	mg/kg	0.5	0.7	0.8	3.9	0.8	<0.5
Zinc, Zn	mg/kg	2	5.9	25	150	6.8	4.2



ANALYTICAL RESULTS

SE285865 R0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 9/7/2025

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
			SE285865.024
PARAMETER	UOM	LOR	
Arsenic, As	mg/kg	1	4
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	21
Copper, Cu	mg/kg	0.5	0.6
Lead, Pb	mg/kg	1	12
Nickel, Ni	mg/kg	0.5	0.7
Zinc, Zn	mg/kg	2	7.0



ANALYTICAL RESULTS

SE285865 R0

Mercury in Soil [AN312] Tested: 9/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
PARAMETER	UOM	LOR	SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
Mercury	mg/kg	0.05	0.12	<0.05	<0.05	0.09	<0.05

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
PARAMETER	UOM	LOR	SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.010
Mercury	mg/kg	0.05	<0.05	0.07	<0.05	0.05	0.06

			HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.011	SE285865.012	SE285865.013	SE285865.014	SE285865.018
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025	8/7/2025	8/7/2025	8/7/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.019	SE285865.020	SE285865.021	SE285865.022	SE285865.023
Mercury	mg/kg	0.05	<0.05	<0.05	0.11	<0.05	<0.05

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
PARAMETER	UOM	LOR	SE285865.024
Mercury	mg/kg	0.05	<0.05



ANALYTICAL RESULTS

SE285865 R0

Moisture Content [AN002] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
% Moisture	%w/w	1	11.0	7.6	8.3	15.3	5.7

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
% Moisture	%w/w	1	13.0	17.0	8.9	11.7	23.5

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	TB30/6
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	30/6/2025 SE285865.017
% Moisture	%w/w	1	21.2	11.6	17.7	10.7	<1.0

PARAMETER	UOM	LOR	BH2M_0.2-0.3	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025 SE285865.018	8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021	8/7/2025 SE285865.022
% Moisture	%w/w	1	13.1	10.1	14.9	14.6	2.9

PARAMETER	UOM	LOR	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL
			-	-
			8/7/2025 SE285865.023	8/7/2025 SE285865.024
% Moisture	%w/w	1	22.2	22.6



ANALYTICAL RESULTS

SE285865 R0

Fibre Identification in soil [AS4964/AN602] Tested: 10/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
			SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
PARAMETER	UOM	LOR					
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 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

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
			SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
PARAMETER	UOM	LOR					
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 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

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
			SE285865.019	SE285865.020	SE285865.021
PARAMETER	UOM	LOR			
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE285865 R0

VOCs in Water [AN433] Tested: 9/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
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



ANALYTICAL RESULTS

SE285865 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 9/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320



ANALYTICAL RESULTS

SE285865 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
			SE285865.015
PARAMETER	UOM	LOR	
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



ANALYTICAL RESULTS

SE285865 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
			SE285865.015
PARAMETER	UOM	LOR	
Mercury	mg/L	0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). 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 unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	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-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	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



Accreditation No. 2562

CLIENT DETAILS

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Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 13

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SGS Reference **SE285865 R0**
Date Received 30 Jun 2025
Date Reported 15 Jul 2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Ravee SIVASUBRAMANIAM
Hygiene Team Leader



ANALYTICAL REPORT

SE285865 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Date Analysed	Fibre Identification	Est.%w/w*
SE285865.001	HA1_0.2-0.3	Soil	164g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE285865.002	HA2_0.2-0.3	Soil	128g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.003	HA3_0.2-0.3	Soil	221g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.004	HA4_0.2-0.3	Soil	162g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.005	HA5_0.2-0.3	Soil	127g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.006	HA6_0.2-0.3	Soil	179g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.007	HA7_0.2-0.3	Soil	186g Clay, Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.008	HA8_0.2-0.3	Soil	210g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.009	BH1M_0.2-0.3	Soil	200g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.018	BH2M_0.2-0.3	Soil	172g Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.019	BH3_0.2-0.3	Soil	176g Clay, Sand, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.020	BH4_0.2-0.3	Soil	201g Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.021	BH5M_0.2-0.3	Soil	203g Clay, Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD

METHODOLOGY SUMMARY

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 unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	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- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres); (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

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

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

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

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

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

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

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

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

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Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

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SGS Reference **SE285865A R0**
Date Received 17/7/2025
Date Reported 24/7/2025

COMMENTS

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

SIGNATORIES



Dong LIANG
 Metals/Inorganics Team Leader



ANALYTICAL RESULTS

SE285865A R0

TCLP (Toxicity Characteristic Leaching Procedure) for Metals [AN006] Tested: 23/7/2025

			HA1_0.2-0.3
			SOIL
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865A.001
pH 1:20	pH Units	-	6.9
pH 1:20 plus HCL	pH Units	-	1.6
Extraction Solution Used	No unit	-	1
Mass of Sample Used*	g	-	13
Volume of ExtractionSolution Used*	mL	-	250
pH TCLP after 18 hours	pH Units	-	5.0



ANALYTICAL RESULTS

SE285865A R0

Metals in TCLP Extract by ICPOES [AN320] Tested: 24/7/2025

			HA1_0.2-0.3
			SOIL
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865A.001
Lead, Pb	mg/L	0.02	0.26

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.

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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CERTIFICATE OF ANALYSIS 385470

Client Details

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

Sample Details

Your Reference	<u>E26573 72-88 Water Street, Belfield</u>
Number of Samples	1 Soil
Date samples received	09/07/2025
Date completed instructions received	09/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	16/07/2025
Date of Issue	11/07/2025
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Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Jack Wallis, Senior Chemist
 Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date extracted	-	10/07/2025
Date analysed	-	11/07/2025
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	113

svTRH (C10-C40) in Soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date extracted	-	10/07/2025
Date analysed	-	11/07/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	72

Acid Extractable metals in soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date prepared	-	10/07/2025
Date analysed	-	10/07/2025
Arsenic	mg/kg	13
Cadmium	mg/kg	<0.4
Chromium	mg/kg	32
Copper	mg/kg	4
Lead	mg/kg	32
Mercury	mg/kg	<0.1
Nickel	mg/kg	2
Zinc	mg/kg	16

Moisture		
Our Reference	UNITS	385470-1
Your Reference		QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date prepared	-	10/07/2025
Date analysed	-	11/07/2025
Moisture	%	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			11/07/2025	[NT]	[NT]	[NT]	[NT]	11/07/2025	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	125	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	125	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	122	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	122	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	128	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	116	[NT]	[NT]	[NT]	[NT]	126	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	72	[NT]	[NT]	[NT]	[NT]	74	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

Result Definitions

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

Quality Control Definitions

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CLIENT DETAILS

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Project **E26573,72-88 Water Belfield**
 Order Number **E26573**
 Samples 7

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SGS Reference **SE286801 R0**
 Date Received 25/7/2025
 Date Reported 4/8/2025

COMMENTS

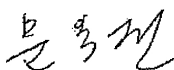
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Ion Chromatography - The Limit of Reporting (LOR) has been raised due to high conductivity of the sample requiring dilution.

SIGNATORIES



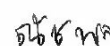
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ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025

PARAMETER	UOM	LOR	BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			25/7/2025 SE286801.001	25/7/2025 SE286801.002	25/7/2025 SE286801.003	25/7/2025 SE286801.004	25/7/2025 SE286801.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	0.6	<0.5	450	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	1.2	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	5	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	2.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	0.6	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	7.9	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	460	<3	<3
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	-	-
MIBE (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	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	<1	2	-	-
Total VOC	µg/L	10	-	<10	470	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

PARAMETER	UOM	LOR	TS 25/7	TB 25/7
			WATER - 25/7/2025 SE286801.006	WATER - 25/7/2025 SE286801.007
Benzene	µg/L	0.5	[98%]	<0.5
Toluene	µg/L	0.5	[99%]	<0.5
Ethylbenzene	µg/L	0.5	[97%]	<0.5
m/p-xylene	µg/L	1	[94%]	<1
o-xylene	µg/L	0.5	[94%]	<0.5
Naphthalene (VOC)*	µg/L	0.5	[82%]	<0.5
Total Xylenes	µg/L	1.5	-	<1.5
Total BTEX	µg/L	3	-	<3
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	-	-
MIBE (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	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

			TS 25/7	TB 25/7
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
			SE286801.006	SE286801.007
PARAMETER	UOM	LOR		
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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-
Total VOC	µg/L	10	-	-



ANALYTICAL RESULTS

SE286801 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 25/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
TRH C6-C9	µg/L	40	<40	<40	96	<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	480	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50	<50



ANALYTICAL RESULTS

SE286801 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 28/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
TRH C10-C14	µg/L	50	<50	<50	110	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	120	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	120	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	<320	330	<320	<320



ANALYTICAL RESULTS

SE286801 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1



ANALYTICAL RESULTS

SE286801 R0

Total Phenolics in Water [AN295] Tested: 28/7/2025

			BH2M	BH5M
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
			SE286801.002	SE286801.003
PARAMETER	UOM	LOR		
Total Phenols	mg/L	0.05	<0.05	<0.05



ANALYTICAL RESULTS

SE286801 R0

pH in water [AN101] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003
pH**	pH Units	0.1	5.6	6.6	5.2



ANALYTICAL RESULTS

SE286801 R0

Conductivity and TDS by Calculation - Water [AN106] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Conductivity @ 25 C	µS/cm	2	6200	11000	5400



ANALYTICAL RESULTS

SE286801 R0

Total Dissolved Solids (TDS) in water [AN113] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Total Dissolved Solids Dried at 175-185°C	mg/L	10	3800	7300	3400



ANALYTICAL RESULTS

SE286801 R0

Turbidity [AN119] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Turbidity	NTU	0.5	17000	31	210



ANALYTICAL RESULTS

SE286801 R0

Total Cyanide in water by Discrete Analyser [AN077/AN287] Tested: 31/7/2025

			BH2M	BH5M
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
			SE286801.002	SE286801.003
PARAMETER	UOM	LOR		
Total Cyanide	mg/L	0.004	<0.004	<0.004



ANALYTICAL RESULTS

SE286801 R0

Anions by Ion Chromatography in Water [AN245] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Chloride	mg/L	0.05	2100
Fluoride	mg/L	0.1	0.40
Sulfate, SO4	mg/L	1	350
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.025†
Bromide	mg/L	0.05	1.3



ANALYTICAL RESULTS

SE286801 R0

Alkalinity [AN135] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Bicarbonate Alkalinity as CaCO3	mg/L	5	230
Bicarbonate Alkalinity as HCO3	mg/L	5	280
Carbonate Alkalinity as CaCO3	mg/L	5	<5
Carbonate Alkalinity as CO3	mg/L	5	<5
Hydroxide Alkalinity as CaCO3	mg/L	5	<5
Hydroxide Alkalinity as OH	mg/L	5	<5
Total Alkalinity as CaCO3	mg/L	5	230
Carbonate Hardness as CaCO3*	mg CaCO3/L	2	229.826666666667
Non-Carbonate Hardness as CaCO3*	mg CaCO3/L	2	-
Negative Hardness as CaCO3*	mg CaCO3/L	-100	-



ANALYTICAL RESULTS

SE286801 R0

Dissolved Oxygen by Membrane Electrode [AN176] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Temperature*	°C	-	18.5
Dissolved Oxygen**	mg/L	0.5	2.7
Dissolved Oxygen (percent saturation)**	%	1	28.7



ANALYTICAL RESULTS

SE286801 R0

Total and Volatile Suspended Solids (TSS / VSS) [AN114] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Total Suspended Solids Dried at 103-105°C	mg/L	5	13000



ANALYTICAL RESULTS

SE286801 R0

Forms of Carbon [AN190] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Total Organic Carbon as NPOC	mg/L	0.2	19



ANALYTICAL RESULTS

SE286801 R0

Ammonia Nitrogen by Discrete Analyser [AN291] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.61



ANALYTICAL RESULTS

SE286801 R0

Calculation of Anion-Cation Balance (SAR Calc) [AN121] Tested: 31/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Sum of Ions*	mg/L	10	4030
Anion-Cation Balance	%	-100	-4.89
TFSS*	mg/L	10	4030
Sodium Adsorption Ratio*	No unit	0.1	24.6



ANALYTICAL RESULTS

SE286801 R0

Nitrite in Water [AN277] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005
Total Oxidised Nitrogen, NOx-N	mg/L	0.005	<0.005



ANALYTICAL RESULTS

SE286801 R0

TKN Kjeldahl Digestion by Discrete Analyser [AN281/292] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Total Kjeldahl Nitrogen	mg/L	0.05	11
Total Nitrogen (calc)	mg/L	0.05	11



ANALYTICAL RESULTS

SE286801 R0

Total Phosphorus by Kjeldahl Digestion DA in Water [AN279/AN293] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	9.5



ANALYTICAL RESULTS

SE286801 R0

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005



ANALYTICAL RESULTS

SE286801 R0

Redox Potential (Eh) in water [AN240] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Eh of Sample Relative to Standard H+ Electrode***	mV	-500	387
Temperature of Sample*	°C	0.1	20.0



ANALYTICAL RESULTS

SE286801 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 30/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Chromium	µg/L	1	<1	<1	2	<1	<1
Copper	µg/L	1	<1	2	7	1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	32	100	27	31	<1
Zinc	µg/L	5	31	23	92	35	<5
Aluminium	µg/L	5	140	6	700	-	-
Silver	µg/L	1	<1	-	-	-	-
Antimony	µg/L	1	<1	-	-	-	-
Barium	µg/L	1	100	-	-	-	-
Beryllium	µg/L	1	<1	-	-	-	-
Boron	µg/L	5	35	-	-	-	-
Cobalt	µg/L	1	10	-	-	-	-
Iron	µg/L	5	18000	-	-	-	-
Manganese	µg/L	1	2000	-	-	-	-
Molybdenum	µg/L	1	2	-	-	-	-
Selenium	µg/L	1	<1	-	-	-	-
Strontium	µg/L	1	400	-	-	-	-
Uranium	µg/L	1	<1	-	-	-	-
Vanadium	µg/L	1	<1	-	-	-	-



ANALYTICAL RESULTS

SE286801 R0

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Calcium, Ca	mg/L	0.2	37	140	5.9
Magnesium, Mg	mg/L	0.1	91	230	80
Total Hardness by Calculation	mg CaCO3/L	1	470	1300	340
Sodium Adsorption Ratio	No unit	0.2	25	-	-
Sodium, Na	mg/L	0.5	1200	-	-
Potassium, K	mg/L	0.1	16	-	-
Lithium, Li	mg/L	0.005	0.20	-	-
Silicon, Si*	mg/L	0.05	14	-	-
Soluble Silicon as Silica, SiO2*	mg/L	0.1	29	-	-



ANALYTICAL RESULTS

SE286801 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 28/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



ANALYTICAL RESULTS

SE286801 R0

Enterococci in Water [AN705] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Date & Time Processed*	No unit	-	2025-07-28 15:59
Intestinal Enterococci*	CFU/100mL	1	<1
Notes*	No unit	-	-



ANALYTICAL RESULTS

SE286801 R0

E. coli and Thermotolerant coliforms in Water (CFU) [AN703] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Date & Time Processed*	No unit	-	2025-07-28 15:59
E. coli	CFU/100mL	1	<1
Thermotolerant Coliforms	CFU/100mL	1	<1

METHOD

METHODOLOGY SUMMARY

AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN077	Hydrogen cyanide is liberated from an acidified sample by distillation and purging with air. The hydrogen cyanide gas is then collected by passing it through a sodium hydroxide scrubbing solution. The scrubbing solution will then be analysed for cyanide by the appropriate method.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos/cm or µS/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.
AN106	Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.
AN113	Total Dissolved Solids: A well-mixed filtered sample of known volume is evaporated to dryness at 180°C and the residue weighed. Approximate methods for correlating chemical analysis with dissolved solids are available. Reference APHA 2540 C.
AN113	The Total Dissolved Solids residue may also be ignited at 550 C and volatile TDS (Organic TDS) and non-volatile TDS (Inorganic) can be determined.
AN114	Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
AN119	Turbidity by Nephelometry: Small particles in a light beam scatter light at a range of angles. A turbidimeter measures this scatter and reports results compared to turbidity standards, in NTU. This procedure is not suitable for very dark coloured liquids or samples with high solids because light absorption causes artificially low light scatter and low turbidity. Reference APHA 2130B.
AN121	This method is used to calculate the balance of major Anions and Cations in water samples and converts major ion concentration to milliequivalents and then summed. Anions sum and Cation sum is calculated as a difference and expressed as a percentage.
AN135	Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
AN176	Dissolved Oxygen: DO can also be measured directly using an oxygen permeable membrane electrode and meter. Under steady state conditions the current is directly proportional to the DO conc. DO can also be measured via Luminescent dissolved oxygen probes (LDO) which also operates using an oxygen permeable membrane with an oxygen sensitive luminescent dye making up the second probe layer. The presence of oxygen causes changes in the lifetime and intensity of luminescence, which are then quantified. Zero headspace is required for sample analysis, if headspace is observed report comment will be recorded. Reference APHA 4500-C, G & O.
AN190	TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO ₂ is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result. Reference APHA 5310 B.
AN190	Chemical oxygen demand can be calculated/estimated based on the O ₂ /C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.
AN240	Oxidation-Reduction Potential (Eh): Electrometric measurements are made by potentiometric determination of electron activity (or intensity) with an inert indicator electrode and a suitable reference electrode. At redox equilibrium, the potential difference between the two electrodes equals the redox potential of the system. This measurement is then corrected for the difference between the potential of the reference electrode and that of the standard hydrogen electrode.

AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO ₂ , NO ₃ and SO ₄ are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN277	Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.
AN278	Filterable Reactive Phosphorus by DA (determined on filtered sample): Orthophosphate reacts with ammonium molybdate (Mo VI) and potassium antimonyl tartrate (Sb III) in acid medium to form an antimony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue colour and the absorbance is read at 880 nm. The sensitivity of the automated method is 10-20 times that of the macro method. Reference APHA 4500-P F
AN279/AN293(Sydney)	The sample is digested with Sulphuric acid, K ₂ SO ₄ and CuSO ₄ . All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.
AN281	An unfiltered water or soil sample is first digested in a block digester with sulfuric acid, K ₂ SO ₄ and CuSO ₄ . The ammonia produced following digestion is then measured colourimetrically using the Discrete Analyser. A portion of the digested sample is buffered to an alkaline pH, and interfering cations are complexed. The ammonia then reacts with salicylate and hypochlorite to give a blue colour whose absorbance is measured at 660nm and compared with calibration standards. This is proportional to the concentration of Total Kjeldahl Nitrogen in the original sample.
AN287	A buffered distillate or water sample is treated with chloramine/barbituric acid reagents and the intensity of the colour developed is proportional to the cyanide concentration by DA.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 660 nm by Discrete Analyser.
AN295	The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pyrazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.
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 Recoverable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken . This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
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.
AN703	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS4276.5.
AN705	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS/NZS4276.9 (ISO 7899-2:2000 MOD).
Calculation	Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported . APHA4500CO2 D.

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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

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

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

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

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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Order Number **E26573**
Samples 7

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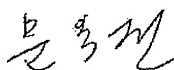
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SGS Reference **SE286801B R0**
Date Received 5/8/2025
Date Reported 11/8/2025

COMMENTS

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

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ANALYTICAL RESULTS

SE286801B R0

VOCs in Water [AN433] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
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
Naphthalene (VOC)*	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
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
Acetone (2-propanone)	µg/L	10	<10
Iodomethane	µg/L	5	<5
1,1-dichloroethene	µg/L	0.5	<0.5
Acrylonitrile	µg/L	0.5	<0.5
Dichloromethane (Methylene chloride)	µg/L	5	<5
Allyl chloride	µg/L	2	<2
Carbon disulfide	µg/L	2	<2
trans-1,2-dichloroethene	µg/L	0.5	<0.5
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5
1,1-dichloroethane	µg/L	0.5	<0.5
Vinyl acetate*	µg/L	10	<10
MEK (2-butanone)	µg/L	10	<10
cis-1,2-dichloroethene	µg/L	0.5	<0.5
Bromochloromethane	µg/L	0.5	<0.5
Chloroform (THM)	µg/L	0.5	1.7
2,2-dichloropropane	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
1,2-dichloropropane	µg/L	0.5	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
2-nitropropane	µg/L	100	<100
Bromodichloromethane (THM)	µg/L	0.5	<0.5
MIBK (4-methyl-2-pentanone)	µg/L	5	<5
cis-1,3-dichloropropene	µg/L	0.5	<0.5
trans-1,3-dichloropropene	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
Dibromochloromethane (THM)	µg/L	0.5	<0.5
2-hexanone (MBK)	µg/L	5	<5
1,2-dibromoethane (EDB)	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
Chlorobenzene	µg/L	0.5	<0.5
Bromoform (THM)	µg/L	0.5	<0.5
Styrene (Vinyl benzene)	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
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5



ANALYTICAL RESULTS

SE286801B R0

VOCs in Water [AN433] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Bromobenzene	µg/L	0.5	<0.5
n-propylbenzene	µg/L	0.5	<0.5
2-chlorotoluene	µg/L	0.5	<0.5
4-chlorotoluene	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
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.3	<0.3
p-isopropyltoluene	µg/L	0.5	<0.5
1,2-dichlorobenzene	µg/L	0.5	<0.5
n-butylbenzene	µg/L	0.5	<0.5
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
1,2,3-trichlorobenzene	µg/L	0.5	<0.5
cis-1,4-dichloro-2-butene	µg/L	1	<1
Total VOC	µg/L	10	<10



ANALYTICAL RESULTS

SE286801B R0

OC Pesticides in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.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
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1
Total Other OC VIC EPA	µg/L	1	<1



ANALYTICAL RESULTS

SE286801B R0

OP Pesticides in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Azinphos-methyl	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Ethion	µg/L	0.2	<0.2
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE286801B R0

PCBs in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801B.001
PARAMETER	UOM	LOR	
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
Total Arochlors*	µg/L	5	<5



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
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(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Benzo(a)pyrene	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
1-methylnaphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	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
2-acetylaminofluorene	µg/L	0.5	<0.5
7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
3-methylcholanthrene	µg/L	0.5	<0.5
Aldrin	µg/L	0.1	<0.1
Alpha-BHC	µg/L	0.1	<0.1
Beta-BHC	µg/L	0.1	<0.1
Delta-BHC	µg/L	0.1	<0.1
Gamma-BHC (Lindane)	µg/L	0.1	<0.1
p,p-DDD	µg/L	0.1	<0.1
p,p-DDE	µg/L	0.1	<0.1
p,p-DDT	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Alpha-endosulfan	µg/L	0.1	<0.1
Beta-endosulfan	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Alpha-chlordane	µg/L	0.1	<0.1
Gamma-chlordane	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
Bromophos ethyl	µg/L	0.2	<0.2
Carbophenothion	µg/L	0.5	<0.5
Chlorfenvinphos-cis	µg/L	5	<5
Chlorfenvinphos-trans	µg/L	0.5	<0.5
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Chlorpyrifos-methyl	µg/L	0.5	<0.5
Co-Ral (Coumaphos)	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Demeton-S-methyl	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Disulfoton (Di-syston)	µg/L	0.5	<0.5
EPN*	µg/L	0.5	<0.5



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Ethion	µg/L	0.2	<0.2
Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
Famphur (Famophos)	µg/L	0.5	<0.5
Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
Fenchlorophos (Ronne)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Fenthion	µg/L	0.5	<0.5
Malathion (Maldison)	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Mevinphos-cis/trans	µg/L	1	<1
o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
Parathion ethyl (Parathion)	µg/L	0.2	<0.2
Parathion methyl	µg/L	0.5	<0.5
Phorate	µg/L	0.5	<0.5
Pirimiphos-ethyl	µg/L	0.5	<0.5
Pirimiphos-methyl	µg/L	0.5	<0.5
Profenofos	µg/L	0.5	<0.5
Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
Sulfotepp	µg/L	0.5	<0.5
Tetrachlorvinphos (Stiophos)*	µg/L	0.5	<0.5
PCB Congener C28	µg/L	0.1	<0.1
PCB Congener C52	µg/L	0.1	<0.1
PCB Congener C101	µg/L	0.1	<0.1
PCB Congener C118	µg/L	0.1	<0.1
PCB Congener C138	µg/L	0.1	<0.1
PCB Congener C153	µg/L	0.1	<0.1
PCB Congener C180	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
1,2-dichlorobenzene	µg/L	0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
Hexachlorocyclopentadiene	µg/L	2	<2
Hexachloroethane	µg/L	0.5	<0.5
Hexachloropropene	µg/L	0.5	<0.5
Pentachlorobenzene	µg/L	0.5	<0.5
Pentachloroethane	µg/L	0.5	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
1/2-Chloronaphthalene	µg/L	1	<1
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Bis(2-ethylhexyl)phthalate	µg/L	10	<10
Bis(2-ethylhexyl)adipate	µg/L	1	<1
Butyl benzyl phthalate	µg/L	1	<1
Di-n-butyl phthalate	µg/L	10	<10
Diethyl phthalate	µg/L	5	<5
Dimethyl phthalate	µg/L	1	<1
Di-n-octyl phthalate	µg/L	1	<1
Carbofuran	µg/L	0.5	<0.5
Carbaryl	µg/L	0.5	<0.5
Trifluralin	µg/L	0.5	<0.5
N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
N-nitroso-diethylamine (NDEA)	µg/L	1	<1
N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
N-nitroso-morpholine (NMOR)	µg/L	1	<1
N-nitroso-piperidine (NPIP)	µg/L	1	<1



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
4-amino biphenyl	µg/L	1	<1
Acetophenone	µg/L	1	<1
1,3-dinitrobenzene	µg/L	1	<1
2,4-dinitrotoluene	µg/L	1	<1
2,6-dinitrotoluene	µg/L	1	<1
Isophorone	µg/L	1	<1
Nitrobenzene	µg/L	1	<1
p-(dimethylamino) azobenzene	µg/L	1	<1
Phenacetin	µg/L	1	<1
Pentachloronitrobenzene (quintozene)	µg/L	1	<1
Aniline	µg/L	5	<5
4-chloroaniline	µg/L	1	<1
2-nitroaniline	µg/L	1	<1
3-nitroaniline	µg/L	1	<1
4-nitroaniline	µg/L	1	<1
Diphenylamine	µg/L	1	<1
o-toluidine	µg/L	1	<1
5-nitro-o-toluidine	µg/L	1	<1
1-naphthylamine	µg/L	2	<2
2-naphthylamine	µg/L	2	<2
Bis(2-chloroethoxy) methane	µg/L	1	<1
Bis(2-chloroethyl) ether	µg/L	1	<1
Bis(2-chloroisopropyl) ether	µg/L	1	<1
4-chlorophenyl phenyl ether	µg/L	1	<1
4-bromophenyl phenyl ether	µg/L	1	<1
Methyl methanesulfonate	µg/L	1	<1
Ethyl methanesulfonate	µg/L	1	<1
Dibenzofuran	µg/L	1	<1
Benzyl alcohol	µg/L	1	<1
Safrole	µg/L	1	<1
Isosafrole Isomer 1	µg/L	1	<1
Isosafrole Isomer 2	µg/L	1	<1
1,4-naphthoquinone	µg/L	1	<1
Thionazin	µg/L	1	<1
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5
2,3,4,6-tetrachlorophenol	µg/L	0.5	<0.5
2,4,5-trichlorophenol	µg/L	0.5	<0.5
4-chloro-3-methylphenol	µg/L	2	<2
2-chlorophenol	µg/L	0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5
Phenol	µg/L	0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5
Pentachlorophenol	µg/L	0.5	<0.5
4-nitrophenol	µg/L	1	<1
Total Endosulfan (alpha+beta+sulfate)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE286801B R0

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 5/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
Perfluorotridecanoic acid (PFTTrDA)	µg/L	0.01	<0.01
Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
Sum of PFOS and PFHxS	µg/L	0.01	<0.01
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01
Sum of PFAS A	µg/L	0.01	<0.01
Sum of PFAS B	µg/L	0.01	<0.01
Sum of PFAS C	µg/L	0.01	<0.01
Sum of Positive PFAS	µg/L	0.01	<0.01



ANALYTICAL RESULTS

SE286801B R0

Total Phenolics in Water [AN295] Tested: 8/8/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801B.001
PARAMETER	UOM	LOR	
Total Phenols	mg/L	0.05	<0.05

METHOD

METHODOLOGY SUMMARY

AN295

The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pyrazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.

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

SVOC Compounds: Semi-Volatile Organic Compounds (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)
Total PAH calculated from individual analyte detections at or above the limit of reporting .

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

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

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

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

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

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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ANALYTICAL REPORT



Accreditation No. 2562

CLIENT DETAILS

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PYRMONT NSW 2009

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Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573,72-88 Water Belfield - Additional**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

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Alexandria NSW 2015

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SGS Reference **SE286801A R0**
Date Received 4/8/2025
Date Reported 6/8/2025

COMMENTS

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

SIGNATORIES

Ly Kim HA
Organic Section Head



ANALYTICAL RESULTS

SE286801A R0

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water [AN403] Tested: 5/8/2025

			BH5M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801A.003
TRH C10-C14-Silica	µg/L	50	<50
TRH C15-C28-Silica	µg/L	200	<200
TRH C29-C36-Silica	µg/L	200	<200
TRH C37-C40-Silica	µg/L	200	<200
TRH >C10-C16-Silica	µg/L	60	<60
TRH >C16-C34-Silica	µg/L	500	<500
TRH >C34-C40-Silica	µg/L	500	<500
TRH Sum C10-C36-Silica	µg/L	225	<225
TRH Sum C10-C40-Silica	µg/L	320	<320

METHOD

METHODOLOGY SUMMARY

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.

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 (TRHisilica) 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.

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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	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.

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Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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CERTIFICATE OF ANALYSIS 387001

Client Details

Client	El Australia
Attention	Antony Lo
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E26573, 72-88 Water Street, Bellfield</u>
Number of Samples	1 Water
Date samples received	28/07/2025
Date completed instructions received	18/08/2025

Analysis Details

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

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

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

Report Details

Date results requested by	25/08/2025
Date of Issue	20/08/2025

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Results Approved By

Tabitha Roberts, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date extracted	-	19/08/2025
Date analysed	-	20/08/2025
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	103

svTRH (C10-C40) in Water		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date extracted	-	19/08/2025
Date analysed	-	19/08/2025
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	100

HM in water - dissolved		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date prepared	-	19/08/2025
Date analysed	-	19/08/2025
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	1
Copper-Dissolved	µg/L	5
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	31
Zinc-Dissolved	µg/L	33

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			20/08/2025	[NT]	[NT]	[NT]	[NT]	20/08/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	79	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	96	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

Result Definitions

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

Quality Control Definitions

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

Appendix G – Laboratory Analytical Reports

CLIENT DETAILS

Contact Antony Lo
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email antony.lo@eiaustralia.com.au

Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

LABORATORY DETAILS

Manager Shane McDermott
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

Telephone +61 2 8594 0400
Facsimile +61 2 8594 0499
Email au.environmental.sydney@sgs.com

SGS Reference **SE285865 R0**
Date Received 30/6/2025
Date Reported 15/7/2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Akheeque BENIAMEEN
Chemist



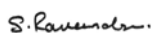
Dong LIANG
Metals/Inorganics Team Leader



Kamrul AHSAN
Senior Chemist



Ly Kim HA
Organic Section Head



Ravee SIVASUBRAMANIAM
Hygiene Team Leader



Shane MCDERMOTT
Laboratory Manager



ANALYTICAL RESULTS

SE285865 R0

VOC's in Soil [AN433] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	TS30/6
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	30/6/2025 SE285865.016
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[104%]
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[103%]
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[104%]
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	[110%]
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[111%]
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	-
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TB30/6	BH2M_0.2-0.3	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.017	8/7/2025 SE285865.018	8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
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



ANALYTICAL RESULTS

SE285865 R0

VOC's in Soil [AN433] Tested: 9/7/2025 (continued)

			BH3_0.7-0.8	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
			SE285865.022	SE285865.023	SE285865.024
PARAMETER	UOM	LOR			
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
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	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	8/7/2025 SE285865.018
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	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021	8/7/2025 SE285865.022	8/7/2025 SE285865.023
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	BH5M_0.7-0.8
			SOIL
			-
			8/7/2025 SE285865.024
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	74	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	74	<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	130	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	150	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	81	<45	<45	56	<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	110	<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	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	8/7/2025 SE285865.018
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	48	<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



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 9/7/2025 (continued)

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025	8/7/2025	8/7/2025	8/7/2025	8/7/2025
			SE285865.019	SE285865.020	SE285865.021	SE285865.022	SE285865.023
PARAMETER	UOM	LOR					
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
			SE285865.024
PARAMETER	UOM	LOR	
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-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210



ANALYTICAL RESULTS

SE285865 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.2	<0.1	0.2	0.2	<0.1
Pyrene	mg/kg	0.1	0.2	<0.1	0.3	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Chrysene	mg/kg	0.1	0.1	<0.1	0.2	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	<0.1	0.3	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.1	<0.1	0.2	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.2	<0.1	0.3	0.2	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	<0.1	0.2	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	0.2	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	0.4	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.3	<0.3	0.5	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.3	<0.2	0.4	0.3	<0.2
Total PAH (18)	mg/kg	0.8	1.1	<0.8	2.1	1.1	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	1.1	<0.8	2.1	1.1	<0.8

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.4	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.1	<0.1	<0.1	0.3	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	0.5	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	0.6	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.2	<0.2	<0.2	0.6	<0.2
Total PAH (18)	mg/kg	0.8	0.8	<0.8	<0.8	2.9	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	0.8	<0.8	<0.8	2.9	<0.8



ANALYTICAL RESULTS

SE285865 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 9/7/2025 (continued)

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	BH2M_0.2-0.3	BH3_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 30/6/2025 SE285865.011	- 30/6/2025 SE285865.012	- 30/6/2025 SE285865.013	- 8/7/2025 SE285865.018	- 8/7/2025 SE285865.019
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	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			- 8/7/2025 SE285865.020	- 8/7/2025 SE285865.021	- 8/7/2025 SE285865.022	- 8/7/2025 SE285865.023	- 8/7/2025 SE285865.024
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	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	0.2	<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	0.2	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	0.3	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.2	<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	0.2	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	0.3	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	0.4	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	0.4	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	1.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	1.8	<0.8	<0.8	<0.8



ANALYTICAL RESULTS

SE285865 R0

OP Pesticides in Soil [AN420] Tested: 9/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
			SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
PARAMETER	UOM	LOR					
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
			SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
PARAMETER	UOM	LOR					
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
			SE285865.019	SE285865.020	SE285865.021
PARAMETER	UOM	LOR			
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
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	0.2	<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	0.2	<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



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025 (continued)

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
			SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
PARAMETER	UOM	LOR					
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



ANALYTICAL RESULTS

SE285865 R0

OC Pesticides in Soil [AN420] Tested: 9/7/2025 (continued)

PARAMETER	UOM	LOR	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

PCBs in Soil [AN420] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	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	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	8/7/2025 SE285865.018
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	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	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1



ANALYTICAL RESULTS

SE285865 R0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
Arsenic, As	mg/kg	1	7	4	5	6	3
Cadmium, Cd	mg/kg	0.3	0.6	1.0	<0.3	0.6	<0.3
Chromium, Cr	mg/kg	0.5	19	10	11	13	17
Copper, Cu	mg/kg	0.5	67	17	10	53	3.4
Lead, Pb	mg/kg	1	260	190	48	190	25
Nickel, Ni	mg/kg	0.5	3.3	4.9	2.2	3.9	1.4
Zinc, Zn	mg/kg	2	180	970	57	380	15

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
Arsenic, As	mg/kg	1	4	6	3	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	5.6	16	6.3	13	28
Copper, Cu	mg/kg	0.5	13	11	7.2	13	<0.5
Lead, Pb	mg/kg	1	74	49	39	85	16
Nickel, Ni	mg/kg	0.5	2.4	2.2	1.3	2.5	<0.5
Zinc, Zn	mg/kg	2	65	88	31	62	5.8

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	8/7/2025 SE285865.018
Arsenic, As	mg/kg	1	2	2	2	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	26	19	22	13	18
Copper, Cu	mg/kg	0.5	<0.5	1.3	<0.5	17	6.8
Lead, Pb	mg/kg	1	14	13	11	94	22
Nickel, Ni	mg/kg	0.5	1.0	0.7	0.7	4.4	1.2
Zinc, Zn	mg/kg	2	6.0	7.3	5.2	83	27

PARAMETER	UOM	LOR	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021	8/7/2025 SE285865.022	8/7/2025 SE285865.023
Arsenic, As	mg/kg	1	4	3	3	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	21	15	8.7	15	14
Copper, Cu	mg/kg	0.5	0.8	3.3	28	2.4	<0.5
Lead, Pb	mg/kg	1	15	13	130	11	11
Nickel, Ni	mg/kg	0.5	0.7	0.8	3.9	0.8	<0.5
Zinc, Zn	mg/kg	2	5.9	25	150	6.8	4.2



ANALYTICAL RESULTS

SE285865 R0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 9/7/2025

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
PARAMETER	UOM	LOR	SE285865.024
Arsenic, As	mg/kg	1	4
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	21
Copper, Cu	mg/kg	0.5	0.6
Lead, Pb	mg/kg	1	12
Nickel, Ni	mg/kg	0.5	0.7
Zinc, Zn	mg/kg	2	7.0



ANALYTICAL RESULTS

SE285865 R0

Mercury in Soil [AN312] Tested: 9/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
PARAMETER	UOM	LOR	SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
Mercury	mg/kg	0.05	0.12	<0.05	<0.05	0.09	<0.05

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
PARAMETER	UOM	LOR	SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.010
Mercury	mg/kg	0.05	<0.05	0.07	<0.05	0.05	0.06

			HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.011	SE285865.012	SE285865.013	SE285865.014	SE285865.018
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8	BH4_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025	8/7/2025	8/7/2025	8/7/2025	8/7/2025
PARAMETER	UOM	LOR	SE285865.019	SE285865.020	SE285865.021	SE285865.022	SE285865.023
Mercury	mg/kg	0.05	<0.05	<0.05	0.11	<0.05	<0.05

			BH5M_0.7-0.8
			SOIL
			-
			8/7/2025
PARAMETER	UOM	LOR	SE285865.024
Mercury	mg/kg	0.05	<0.05



ANALYTICAL RESULTS

SE285865 R0

Moisture Content [AN002] Tested: 9/7/2025

PARAMETER	UOM	LOR	HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.001	30/6/2025 SE285865.002	30/6/2025 SE285865.003	30/6/2025 SE285865.004	30/6/2025 SE285865.005
% Moisture	%w/w	1	11.0	7.6	8.3	15.3	5.7

PARAMETER	UOM	LOR	HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH1M_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.006	30/6/2025 SE285865.007	30/6/2025 SE285865.008	30/6/2025 SE285865.009	30/6/2025 SE285865.010
% Moisture	%w/w	1	13.0	17.0	8.9	11.7	23.5

PARAMETER	UOM	LOR	HA3_0.7-0.8	HA6_0.7-0.8	HA8_0.7-0.8	QD30/6	TB30/6
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025 SE285865.011	30/6/2025 SE285865.012	30/6/2025 SE285865.013	30/6/2025 SE285865.014	30/6/2025 SE285865.017
% Moisture	%w/w	1	21.2	11.6	17.7	10.7	<1.0

PARAMETER	UOM	LOR	BH2M_0.2-0.3	BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3	BH3_0.7-0.8
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			8/7/2025 SE285865.018	8/7/2025 SE285865.019	8/7/2025 SE285865.020	8/7/2025 SE285865.021	8/7/2025 SE285865.022
% Moisture	%w/w	1	13.1	10.1	14.9	14.6	2.9

PARAMETER	UOM	LOR	BH4_0.7-0.8	BH5M_0.7-0.8
			SOIL	SOIL
			-	-
			8/7/2025 SE285865.023	8/7/2025 SE285865.024
% Moisture	%w/w	1	22.2	22.6



ANALYTICAL RESULTS

SE285865 R0

Fibre Identification in soil [AS4964/AN602] Tested: 10/7/2025

			HA1_0.2-0.3	HA2_0.2-0.3	HA3_0.2-0.3	HA4_0.2-0.3	HA5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	30/6/2025
			SE285865.001	SE285865.002	SE285865.003	SE285865.004	SE285865.005
PARAMETER	UOM	LOR					
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 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

			HA6_0.2-0.3	HA7_0.2-0.3	HA8_0.2-0.3	BH1M_0.2-0.3	BH2M_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			30/6/2025	30/6/2025	30/6/2025	30/6/2025	8/7/2025
			SE285865.006	SE285865.007	SE285865.008	SE285865.009	SE285865.018
PARAMETER	UOM	LOR					
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 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

			BH3_0.2-0.3	BH4_0.2-0.3	BH5M_0.2-0.3
			SOIL	SOIL	SOIL
			-	-	-
			8/7/2025	8/7/2025	8/7/2025
			SE285865.019	SE285865.020	SE285865.021
PARAMETER	UOM	LOR			
Date Analysed*	No unit	-	14/07/2025 00:00	14/07/2025 00:00	14/07/2025 00:00
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01



ANALYTICAL RESULTS

SE285865 R0

VOCs in Water [AN433] Tested: 9/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
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



ANALYTICAL RESULTS

SE285865 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 9/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50



ANALYTICAL RESULTS

SE285865 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865.015
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320



ANALYTICAL RESULTS

SE285865 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
			SE285865.015
PARAMETER	UOM	LOR	
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



ANALYTICAL RESULTS

SE285865 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 10/7/2025

			QR30/6
			WATER
			-
			30/6/2025
			SE285865.015
PARAMETER	UOM	LOR	
Mercury	mg/L	0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). 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 unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	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-

- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);
- (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and
- (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	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



Accreditation No. 2562

CLIENT DETAILS

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Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 13

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SGS Reference **SE285865 R0**
Date Received 30 Jun 2025
Date Reported 15 Jul 2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Ravee SIVASUBRAMANIAM
Hygiene Team Leader



ANALYTICAL REPORT

SE285865 R0

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Date Analysed	Fibre Identification	Est.%w/w*
SE285865.001	HA1_0.2-0.3	Soil	164g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE285865.002	HA2_0.2-0.3	Soil	128g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.003	HA3_0.2-0.3	Soil	221g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.004	HA4_0.2-0.3	Soil	162g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.005	HA5_0.2-0.3	Soil	127g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.006	HA6_0.2-0.3	Soil	179g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.007	HA7_0.2-0.3	Soil	186g Clay, Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.008	HA8_0.2-0.3	Soil	210g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.009	BH1M_0.2-0.3	Soil	200g Sand, Soil, Rocks	30 Jun 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.018	BH2M_0.2-0.3	Soil	172g Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.019	BH3_0.2-0.3	Soil	176g Clay, Sand, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.020	BH4_0.2-0.3	Soil	201g Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285865.021	BH5M_0.2-0.3	Soil	203g Clay, Sand, Soil, Rocks	08 Jul 2025	14 Jul 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD

METHODOLOGY SUMMARY

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 unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	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- (a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres); (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

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

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

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

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

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

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

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

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

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Order Number **E26573**
Samples 24

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SGS Reference **SE285865A R0**
Date Received 17/7/2025
Date Reported 24/7/2025

COMMENTS

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

SIGNATORIES



Dong LIANG
 Metals/Inorganics Team Leader



ANALYTICAL RESULTS

SE285865A R0

TCLP (Toxicity Characteristic Leaching Procedure) for Metals [AN006] Tested: 23/7/2025

			HA1_0.2-0.3
			SOIL
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865A.001
pH 1:20	pH Units	-	6.9
pH 1:20 plus HCL	pH Units	-	1.6
Extraction Solution Used	No unit	-	1
Mass of Sample Used*	g	-	13
Volume of ExtractionSolution Used*	mL	-	250
pH TCLP after 18 hours	pH Units	-	5.0



ANALYTICAL RESULTS

SE285865A R0

Metals in TCLP Extract by ICPOES [AN320] Tested: 24/7/2025

			HA1_0.2-0.3
			SOIL
			-
			30/6/2025
PARAMETER	UOM	LOR	SE285865A.001
Lead, Pb	mg/L	0.02	0.26

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.

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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CERTIFICATE OF ANALYSIS 385470

Client Details

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

Sample Details

Your Reference	<u>E26573 72-88 Water Street, Belfield</u>
Number of Samples	1 Soil
Date samples received	09/07/2025
Date completed instructions received	09/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	16/07/2025
Date of Issue	11/07/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Jack Wallis, Senior Chemist
 Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date extracted	-	10/07/2025
Date analysed	-	11/07/2025
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	113

svTRH (C10-C40) in Soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date extracted	-	10/07/2025
Date analysed	-	11/07/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	72

Acid Extractable metals in soil		
Our Reference		385470-1
Your Reference	UNITS	QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date prepared	-	10/07/2025
Date analysed	-	10/07/2025
Arsenic	mg/kg	13
Cadmium	mg/kg	<0.4
Chromium	mg/kg	32
Copper	mg/kg	4
Lead	mg/kg	32
Mercury	mg/kg	<0.1
Nickel	mg/kg	2
Zinc	mg/kg	16

Moisture		
Our Reference	UNITS	385470-1
Your Reference		QT30/6
Date Sampled		30/06/2025
Type of sample		Soil
Date prepared	-	10/07/2025
Date analysed	-	11/07/2025
Moisture	%	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			11/07/2025	[NT]	[NT]	[NT]	[NT]	11/07/2025	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	125	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	125	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	122	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	122	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	128	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	116	[NT]	[NT]	[NT]	[NT]	126	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	72	[NT]	[NT]	[NT]	[NT]	74	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Date analysed	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	95	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

Result Definitions

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

Quality Control Definitions

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CLIENT DETAILS

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Project **E26573,72-88 Water Belfield**
 Order Number **E26573**
 Samples 7

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SGS Reference **SE286801 R0**
 Date Received 25/7/2025
 Date Reported 4/8/2025

COMMENTS

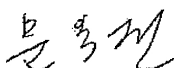
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Ion Chromatography - The Limit of Reporting (LOR) has been raised due to high conductivity of the sample requiring dilution.

SIGNATORIES



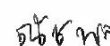
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ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025

PARAMETER	UOM	LOR	BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER - 25/7/2025 SE286801.001	WATER - 25/7/2025 SE286801.002	WATER - 25/7/2025 SE286801.003	WATER - 25/7/2025 SE286801.004	WATER - 25/7/2025 SE286801.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	0.6	<0.5	450	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	1.2	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	5	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	2.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	0.6	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	7.9	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	460	<3	<3
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	-	-
MIBE (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	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	<1	2	-	-
Total VOC	µg/L	10	-	<10	470	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

PARAMETER	UOM	LOR	TS 25/7	TB 25/7
			WATER - 25/7/2025 SE286801.006	WATER - 25/7/2025 SE286801.007
Benzene	µg/L	0.5	[98%]	<0.5
Toluene	µg/L	0.5	[99%]	<0.5
Ethylbenzene	µg/L	0.5	[97%]	<0.5
m/p-xylene	µg/L	1	[94%]	<1
o-xylene	µg/L	0.5	[94%]	<0.5
Naphthalene (VOC)*	µg/L	0.5	[82%]	<0.5
Total Xylenes	µg/L	1.5	-	<1.5
Total BTEX	µg/L	3	-	<3
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	-	-
MIBE (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	-	-



ANALYTICAL RESULTS

SE286801 R0

VOCs in Water [AN433] Tested: 25/7/2025 (continued)

			TS 25/7	TB 25/7
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.006	SE286801.007
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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-
Total VOC	µg/L	10	-	-



ANALYTICAL RESULTS

SE286801 R0

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 25/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
TRH C6-C9	µg/L	40	<40	<40	96	<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	480	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50	<50



ANALYTICAL RESULTS

SE286801 R0

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 28/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
TRH C10-C14	µg/L	50	<50	<50	110	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	120	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	120	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	<320	330	<320	<320



ANALYTICAL RESULTS

SE286801 R0

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1



ANALYTICAL RESULTS

SE286801 R0

Total Phenolics in Water [AN295] Tested: 28/7/2025

			BH2M	BH5M
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
			SE286801.002	SE286801.003
PARAMETER	UOM	LOR		
Total Phenols	mg/L	0.05	<0.05	<0.05



ANALYTICAL RESULTS

SE286801 R0

pH in water [AN101] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003
pH**	pH Units	0.1	5.6	6.6	5.2



ANALYTICAL RESULTS

SE286801 R0

Conductivity and TDS by Calculation - Water [AN106] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Conductivity @ 25 C	µS/cm	2	6200	11000	5400



ANALYTICAL RESULTS

SE286801 R0

Total Dissolved Solids (TDS) in water [AN113] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Total Dissolved Solids Dried at 175-185°C	mg/L	10	3800	7300	3400



ANALYTICAL RESULTS

SE286801 R0

Turbidity [AN119] Tested: 25/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Turbidity	NTU	0.5	17000	31	210



ANALYTICAL RESULTS

SE286801 R0

Total Cyanide in water by Discrete Analyser [AN077/AN287] Tested: 31/7/2025

			BH2M	BH5M
			WATER	WATER
			-	-
			25/7/2025	25/7/2025
			SE286801.002	SE286801.003
PARAMETER	UOM	LOR		
Total Cyanide	mg/L	0.004	<0.004	<0.004



ANALYTICAL RESULTS

SE286801 R0

Anions by Ion Chromatography in Water [AN245] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Chloride	mg/L	0.05	2100
Fluoride	mg/L	0.1	0.40
Sulfate, SO4	mg/L	1	350
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.025†
Bromide	mg/L	0.05	1.3



ANALYTICAL RESULTS

SE286801 R0

Alkalinity [AN135] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Bicarbonate Alkalinity as CaCO3	mg/L	5	230
Bicarbonate Alkalinity as HCO3	mg/L	5	280
Carbonate Alkalinity as CaCO3	mg/L	5	<5
Carbonate Alkalinity as CO3	mg/L	5	<5
Hydroxide Alkalinity as CaCO3	mg/L	5	<5
Hydroxide Alkalinity as OH	mg/L	5	<5
Total Alkalinity as CaCO3	mg/L	5	230
Carbonate Hardness as CaCO3*	mg CaCO3/L	2	229.826666666667
Non-Carbonate Hardness as CaCO3*	mg CaCO3/L	2	-
Negative Hardness as CaCO3*	mg CaCO3/L	-100	-



ANALYTICAL RESULTS

SE286801 R0

Dissolved Oxygen by Membrane Electrode [AN176] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Temperature*	°C	-	18.5
Dissolved Oxygen**	mg/L	0.5	2.7
Dissolved Oxygen (percent saturation)**	%	1	28.7



ANALYTICAL RESULTS

SE286801 R0

Total and Volatile Suspended Solids (TSS / VSS) [AN114] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Total Suspended Solids Dried at 103-105°C	mg/L	5	13000



ANALYTICAL RESULTS

SE286801 R0

Forms of Carbon [AN190] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Total Organic Carbon as NPOC	mg/L	0.2	19



ANALYTICAL RESULTS

SE286801 R0

Ammonia Nitrogen by Discrete Analyser [AN291] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.61



ANALYTICAL RESULTS

SE286801 R0

Calculation of Anion-Cation Balance (SAR Calc) [AN121] Tested: 31/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Sum of Ions*	mg/L	10	4030
Anion-Cation Balance	%	-100	-4.89
TFSS*	mg/L	10	4030
Sodium Adsorption Ratio*	No unit	0.1	24.6



ANALYTICAL RESULTS

SE286801 R0

Nitrite in Water [AN277] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005
Total Oxidised Nitrogen, NOx-N	mg/L	0.005	<0.005



ANALYTICAL RESULTS

SE286801 R0

TKN Kjeldahl Digestion by Discrete Analyser [AN281/292] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Total Kjeldahl Nitrogen	mg/L	0.05	11
Total Nitrogen (calc)	mg/L	0.05	11



ANALYTICAL RESULTS

SE286801 R0

Total Phosphorus by Kjeldahl Digestion DA in Water [AN279/AN293] Tested: 29/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	9.5



ANALYTICAL RESULTS

SE286801 R0

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801.001
PARAMETER	UOM	LOR	
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005



ANALYTICAL RESULTS

SE286801 R0

Redox Potential (Eh) in water [AN240] Tested: 25/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Eh of Sample Relative to Standard H+ Electrode***	mV	-500	387
Temperature of Sample*	°C	0.1	20.0



ANALYTICAL RESULTS

SE286801 R0

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 30/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	0.2	<0.1	<0.1
Chromium	µg/L	1	<1	<1	2	<1	<1
Copper	µg/L	1	<1	2	7	1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	32	100	27	31	<1
Zinc	µg/L	5	31	23	92	35	<5
Aluminium	µg/L	5	140	6	700	-	-
Silver	µg/L	1	<1	-	-	-	-
Antimony	µg/L	1	<1	-	-	-	-
Barium	µg/L	1	100	-	-	-	-
Beryllium	µg/L	1	<1	-	-	-	-
Boron	µg/L	5	35	-	-	-	-
Cobalt	µg/L	1	10	-	-	-	-
Iron	µg/L	5	18000	-	-	-	-
Manganese	µg/L	1	2000	-	-	-	-
Molybdenum	µg/L	1	2	-	-	-	-
Selenium	µg/L	1	<1	-	-	-	-
Strontium	µg/L	1	400	-	-	-	-
Uranium	µg/L	1	<1	-	-	-	-
Vanadium	µg/L	1	<1	-	-	-	-



ANALYTICAL RESULTS

SE286801 R0

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 28/7/2025

			BH1M	BH2M	BH5M
			WATER	WATER	WATER
			-	-	-
			25/7/2025	25/7/2025	25/7/2025
			SE286801.001	SE286801.002	SE286801.003
PARAMETER	UOM	LOR			
Calcium, Ca	mg/L	0.2	37	140	5.9
Magnesium, Mg	mg/L	0.1	91	230	80
Total Hardness by Calculation	mg CaCO3/L	1	470	1300	340
Sodium Adsorption Ratio	No unit	0.2	25	-	-
Sodium, Na	mg/L	0.5	1200	-	-
Potassium, K	mg/L	0.1	16	-	-
Lithium, Li	mg/L	0.005	0.20	-	-
Silicon, Si*	mg/L	0.05	14	-	-
Soluble Silicon as Silica, SiO2*	mg/L	0.1	29	-	-



ANALYTICAL RESULTS

SE286801 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 28/7/2025

			BH1M	BH2M	BH5M	QD 25/7	QR 25/7
			WATER	WATER	WATER	WATER	WATER
			-	-	-	-	-
			25/7/2025	25/7/2025	25/7/2025	25/7/2025	25/7/2025
PARAMETER	UOM	LOR	SE286801.001	SE286801.002	SE286801.003	SE286801.004	SE286801.005
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



ANALYTICAL RESULTS

SE286801 R0

Enterococci in Water [AN705] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Date & Time Processed*	No unit	-	2025-07-28 15:59
Intestinal Enterococci*	CFU/100mL	1	<1
Notes*	No unit	-	-



ANALYTICAL RESULTS

SE286801 R0

E. coli and Thermotolerant coliforms in Water (CFU) [AN703] Tested: 28/7/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801.001
Date & Time Processed*	No unit	-	2025-07-28 15:59
E. coli	CFU/100mL	1	<1
Thermotolerant Coliforms	CFU/100mL	1	<1

METHOD

METHODOLOGY SUMMARY

AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN077	Hydrogen cyanide is liberated from an acidified sample by distillation and purging with air. The hydrogen cyanide gas is then collected by passing it through a sodium hydroxide scrubbing solution. The scrubbing solution will then be analysed for cyanide by the appropriate method.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos/cm or µS/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.
AN106	Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.
AN113	Total Dissolved Solids: A well-mixed filtered sample of known volume is evaporated to dryness at 180°C and the residue weighed. Approximate methods for correlating chemical analysis with dissolved solids are available. Reference APHA 2540 C.
AN113	The Total Dissolved Solids residue may also be ignited at 550 C and volatile TDS (Organic TDS) and non-volatile TDS (Inorganic) can be determined.
AN114	Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
AN119	Turbidity by Nephelometry: Small particles in a light beam scatter light at a range of angles. A turbidimeter measures this scatter and reports results compared to turbidity standards, in NTU. This procedure is not suitable for very dark coloured liquids or samples with high solids because light absorption causes artificially low light scatter and low turbidity. Reference APHA 2130B.
AN121	This method is used to calculate the balance of major Anions and Cations in water samples and converts major ion concentration to milliequivalents and then summed. Anions sum and Cation sum is calculated as a difference and expressed as a percentage.
AN135	Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
AN176	Dissolved Oxygen: DO can also be measured directly using an oxygen permeable membrane electrode and meter. Under steady state conditions the current is directly proportional to the DO conc. DO can also be measured via Luminescent dissolved oxygen probes (LDO) which also operates using an oxygen permeable membrane with an oxygen sensitive luminescent dye making up the second probe layer. The presence of oxygen causes changes in the lifetime and intensity of luminescence, which are then quantified. Zero headspace is required for sample analysis, if headspace is observed report comment will be recorded. Reference APHA 4500-C, G & O.
AN190	TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO ₂ is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result. Reference APHA 5310 B.
AN190	Chemical oxygen demand can be calculated/estimated based on the O ₂ /C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.
AN240	Oxidation-Reduction Potential (Eh): Electrometric measurements are made by potentiometric determination of electron activity (or intensity) with an inert indicator electrode and a suitable reference electrode. At redox equilibrium, the potential difference between the two electrodes equals the redox potential of the system. This measurement is then corrected for the difference between the potential of the reference electrode and that of the standard hydrogen electrode.

AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO ₂ , NO ₃ and SO ₄ are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN277	Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.
AN278	Filterable Reactive Phosphorus by DA (determined on filtered sample): Orthophosphate reacts with ammonium molybdate (Mo VI) and potassium antimonyl tartrate (Sb III) in acid medium to form an antimony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue colour and the absorbance is read at 880 nm. The sensitivity of the automated method is 10-20 times that of the macro method. Reference APHA 4500-P F
AN279/AN293(Sydney)	The sample is digested with Sulphuric acid, K ₂ SO ₄ and CuSO ₄ . All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.
AN281	An unfiltered water or soil sample is first digested in a block digester with sulfuric acid, K ₂ SO ₄ and CuSO ₄ . The ammonia produced following digestion is then measured colourimetrically using the Discrete Analyser. A portion of the digested sample is buffered to an alkaline pH, and interfering cations are complexed. The ammonia then reacts with salicylate and hypochlorite to give a blue colour whose absorbance is measured at 660nm and compared with calibration standards. This is proportional to the concentration of Total Kjeldahl Nitrogen in the original sample.
AN287	A buffered distillate or water sample is treated with chloramine/barbituric acid reagents and the intensity of the colour developed is proportional to the cyanide concentration by DA.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 660 nm by Discrete Analyser.
AN295	The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pyrazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.
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 Recoverable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken . This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
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.
AN703	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS4276.5.
AN705	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS/NZS4276.9 (ISO 7899-2:2000 MOD).
Calculation	Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported . APHA4500CO2 D.

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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

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

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

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

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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Project **E26573,72-88 Water Belfield - Additional**
 Order Number **E26573**
 Samples 7

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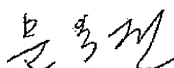
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SGS Reference **SE286801B R0**
 Date Received 5/8/2025
 Date Reported 11/8/2025

COMMENTS

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

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ANALYTICAL RESULTS

SE286801B R0

VOCs in Water [AN433] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
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
Naphthalene (VOC)*	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
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
Acetone (2-propanone)	µg/L	10	<10
Iodomethane	µg/L	5	<5
1,1-dichloroethene	µg/L	0.5	<0.5
Acrylonitrile	µg/L	0.5	<0.5
Dichloromethane (Methylene chloride)	µg/L	5	<5
Allyl chloride	µg/L	2	<2
Carbon disulfide	µg/L	2	<2
trans-1,2-dichloroethene	µg/L	0.5	<0.5
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5
1,1-dichloroethane	µg/L	0.5	<0.5
Vinyl acetate*	µg/L	10	<10
MEK (2-butanone)	µg/L	10	<10
cis-1,2-dichloroethene	µg/L	0.5	<0.5
Bromochloromethane	µg/L	0.5	<0.5
Chloroform (THM)	µg/L	0.5	1.7
2,2-dichloropropane	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
1,2-dichloropropane	µg/L	0.5	<0.5
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
2-nitropropane	µg/L	100	<100
Bromodichloromethane (THM)	µg/L	0.5	<0.5
MIBK (4-methyl-2-pentanone)	µg/L	5	<5
cis-1,3-dichloropropene	µg/L	0.5	<0.5
trans-1,3-dichloropropene	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
Dibromochloromethane (THM)	µg/L	0.5	<0.5
2-hexanone (MBK)	µg/L	5	<5
1,2-dibromoethane (EDB)	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
Chlorobenzene	µg/L	0.5	<0.5
Bromoform (THM)	µg/L	0.5	<0.5
Styrene (Vinyl benzene)	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
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5



ANALYTICAL RESULTS

SE286801B R0

VOCs in Water [AN433] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Bromobenzene	µg/L	0.5	<0.5
n-propylbenzene	µg/L	0.5	<0.5
2-chlorotoluene	µg/L	0.5	<0.5
4-chlorotoluene	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
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.3	<0.3
p-isopropyltoluene	µg/L	0.5	<0.5
1,2-dichlorobenzene	µg/L	0.5	<0.5
n-butylbenzene	µg/L	0.5	<0.5
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
1,2,3-trichlorobenzene	µg/L	0.5	<0.5
cis-1,4-dichloro-2-butene	µg/L	1	<1
Total VOC	µg/L	10	<10



ANALYTICAL RESULTS

SE286801B R0

OC Pesticides in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.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
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1
Total Other OC VIC EPA	µg/L	1	<1



ANALYTICAL RESULTS

SE286801B R0

OP Pesticides in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Azinphos-methyl	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Ethion	µg/L	0.2	<0.2
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE286801B R0

PCBs in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801B.001
PARAMETER	UOM	LOR	
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
Total Arochlors*	µg/L	5	<5



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
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(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Benzo(a)pyrene	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
1-methylnaphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	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
2-acetylaminofluorene	µg/L	0.5	<0.5
7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
3-methylcholanthrene	µg/L	0.5	<0.5
Aldrin	µg/L	0.1	<0.1
Alpha-BHC	µg/L	0.1	<0.1
Beta-BHC	µg/L	0.1	<0.1
Delta-BHC	µg/L	0.1	<0.1
Gamma-BHC (Lindane)	µg/L	0.1	<0.1
p,p-DDD	µg/L	0.1	<0.1
p,p-DDE	µg/L	0.1	<0.1
p,p-DDT	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Alpha-endosulfan	µg/L	0.1	<0.1
Beta-endosulfan	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Alpha-chlordane	µg/L	0.1	<0.1
Gamma-chlordane	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
Bromophos ethyl	µg/L	0.2	<0.2
Carbophenothion	µg/L	0.5	<0.5
Chlorfenvinphos-cis	µg/L	5	<5
Chlorfenvinphos-trans	µg/L	0.5	<0.5
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Chlorpyrifos-methyl	µg/L	0.5	<0.5
Co-Ral (Coumaphos)	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Demeton-S-methyl	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Disulfoton (Di-syston)	µg/L	0.5	<0.5
EPN*	µg/L	0.5	<0.5



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Ethion	µg/L	0.2	<0.2
Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
Famphur (Famophos)	µg/L	0.5	<0.5
Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
Fenchlorophos (Ronne)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Fenthion	µg/L	0.5	<0.5
Malathion (Maldison)	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Mevinphos-cis/trans	µg/L	1	<1
o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
Parathion ethyl (Parathion)	µg/L	0.2	<0.2
Parathion methyl	µg/L	0.5	<0.5
Phorate	µg/L	0.5	<0.5
Pirimiphos-ethyl	µg/L	0.5	<0.5
Pirimiphos-methyl	µg/L	0.5	<0.5
Profenofos	µg/L	0.5	<0.5
Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
Sulfotepp	µg/L	0.5	<0.5
Tetrachlorvinphos (Stiropfos)*	µg/L	0.5	<0.5
PCB Congener C28	µg/L	0.1	<0.1
PCB Congener C52	µg/L	0.1	<0.1
PCB Congener C101	µg/L	0.1	<0.1
PCB Congener C118	µg/L	0.1	<0.1
PCB Congener C138	µg/L	0.1	<0.1
PCB Congener C153	µg/L	0.1	<0.1
PCB Congener C180	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
1,2-dichlorobenzene	µg/L	0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
Hexachlorocyclopentadiene	µg/L	2	<2
Hexachloroethane	µg/L	0.5	<0.5
Hexachloropropene	µg/L	0.5	<0.5
Pentachlorobenzene	µg/L	0.5	<0.5
Pentachloroethane	µg/L	0.5	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
1/2-Chloronaphthalene	µg/L	1	<1
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Bis(2-ethylhexyl)phthalate	µg/L	10	<10
Bis(2-ethylhexyl)adipate	µg/L	1	<1
Butyl benzyl phthalate	µg/L	1	<1
Di-n-butyl phthalate	µg/L	10	<10
Diethyl phthalate	µg/L	5	<5
Dimethyl phthalate	µg/L	1	<1
Di-n-octyl phthalate	µg/L	1	<1
Carbofuran	µg/L	0.5	<0.5
Carbaryl	µg/L	0.5	<0.5
Trifluralin	µg/L	0.5	<0.5
N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
N-nitroso-diethylamine (NDEA)	µg/L	1	<1
N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
N-nitroso-morpholine (NMOR)	µg/L	1	<1
N-nitroso-piperidine (NPIP)	µg/L	1	<1



ANALYTICAL RESULTS

SE286801B R0

Full 8270 SVOC in Water [AN420] Tested: 6/8/2025 (continued)

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
4-amino biphenyl	µg/L	1	<1
Acetophenone	µg/L	1	<1
1,3-dinitrobenzene	µg/L	1	<1
2,4-dinitrotoluene	µg/L	1	<1
2,6-dinitrotoluene	µg/L	1	<1
Isophorone	µg/L	1	<1
Nitrobenzene	µg/L	1	<1
p-(dimethylamino) azobenzene	µg/L	1	<1
Phenacetin	µg/L	1	<1
Pentachloronitrobenzene (quintozene)	µg/L	1	<1
Aniline	µg/L	5	<5
4-chloroaniline	µg/L	1	<1
2-nitroaniline	µg/L	1	<1
3-nitroaniline	µg/L	1	<1
4-nitroaniline	µg/L	1	<1
Diphenylamine	µg/L	1	<1
o-toluidine	µg/L	1	<1
5-nitro-o-toluidine	µg/L	1	<1
1-naphthylamine	µg/L	2	<2
2-naphthylamine	µg/L	2	<2
Bis(2-chloroethoxy) methane	µg/L	1	<1
Bis(2-chloroethyl) ether	µg/L	1	<1
Bis(2-chloroisopropyl) ether	µg/L	1	<1
4-chlorophenyl phenyl ether	µg/L	1	<1
4-bromophenyl phenyl ether	µg/L	1	<1
Methyl methanesulfonate	µg/L	1	<1
Ethyl methanesulfonate	µg/L	1	<1
Dibenzofuran	µg/L	1	<1
Benzyl alcohol	µg/L	1	<1
Safrole	µg/L	1	<1
Isosafrole Isomer 1	µg/L	1	<1
Isosafrole Isomer 2	µg/L	1	<1
1,4-naphthoquinone	µg/L	1	<1
Thionazin	µg/L	1	<1
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5
2,3,4,6-tetrachlorophenol	µg/L	0.5	<0.5
2,4,5-trichlorophenol	µg/L	0.5	<0.5
4-chloro-3-methylphenol	µg/L	2	<2
2-chlorophenol	µg/L	0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5
Phenol	µg/L	0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5
Pentachlorophenol	µg/L	0.5	<0.5
4-nitrophenol	µg/L	1	<1
Total Endosulfan (alpha+beta+sulfate)	µg/L	0.2	<0.2



ANALYTICAL RESULTS

SE286801B R0

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 5/8/2025

			BH1M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801B.001
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
Perfluorotridecanoic acid (PFTTrDA)	µg/L	0.01	<0.01
Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
Sum of PFOS and PFHxS	µg/L	0.01	<0.01
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01
Sum of PFAS A	µg/L	0.01	<0.01
Sum of PFAS B	µg/L	0.01	<0.01
Sum of PFAS C	µg/L	0.01	<0.01
Sum of Positive PFAS	µg/L	0.01	<0.01



ANALYTICAL RESULTS

SE286801B R0

Total Phenolics in Water [AN295] Tested: 8/8/2025

			BH1M
			WATER
			-
			25/7/2025
			SE286801B.001
PARAMETER	UOM	LOR	
Total Phenols	mg/L	0.05	<0.05

METHOD

METHODOLOGY SUMMARY

AN295

The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pyrazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.

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

SVOC Compounds: Semi-Volatile Organic Compounds (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)
Total PAH calculated from individual analyte detections at or above the limit of reporting .

AN420

SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

AN433

VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

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

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

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

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

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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Project **E26573,72-88 Water Belfield - Additional**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

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SGS Reference **SE286801A R0**
Date Received 4/8/2025
Date Reported 6/8/2025

COMMENTS

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

SIGNATORIES



Ly Kim HA
 Organic Section Head



ANALYTICAL RESULTS

SE286801A R0

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water [AN403] Tested: 5/8/2025

			BH5M
			WATER
			-
			25/7/2025
PARAMETER	UOM	LOR	SE286801A.003
TRH C10-C14-Silica	µg/L	50	<50
TRH C15-C28-Silica	µg/L	200	<200
TRH C29-C36-Silica	µg/L	200	<200
TRH C37-C40-Silica	µg/L	200	<200
TRH >C10-C16-Silica	µg/L	60	<60
TRH >C16-C34-Silica	µg/L	500	<500
TRH >C34-C40-Silica	µg/L	500	<500
TRH Sum C10-C36-Silica	µg/L	225	<225
TRH Sum C10-C40-Silica	µg/L	320	<320

METHOD

METHODOLOGY SUMMARY

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.

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 (TRHisilica) 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.

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.
		IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
***	Indicates that both * and ** apply.	LNR	Sample listed, but not received.		

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

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

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

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

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

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

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

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

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CERTIFICATE OF ANALYSIS 387001

Client Details

Client	El Australia
Attention	Antony Lo
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E26573, 72-88 Water Street, Bellfield</u>
Number of Samples	1 Water
Date samples received	28/07/2025
Date completed instructions received	18/08/2025

Analysis Details

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

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

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

Report Details

Date results requested by	25/08/2025
Date of Issue	20/08/2025

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Tabitha Roberts, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date extracted	-	19/08/2025
Date analysed	-	20/08/2025
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	103

svTRH (C10-C40) in Water		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date extracted	-	19/08/2025
Date analysed	-	19/08/2025
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	µg/L	<100
TRH C ₂₉ - C ₃₆	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	100

HM in water - dissolved		
Our Reference		387001-1
Your Reference	UNITS	QT25/7
Date Sampled		25/07/2025
Type of sample		Water
Date prepared	-	19/08/2025
Date analysed	-	19/08/2025
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	1
Copper-Dissolved	µg/L	5
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	31
Zinc-Dissolved	µg/L	33

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			20/08/2025	[NT]	[NT]	[NT]	[NT]	20/08/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	87	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	79	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Date analysed	-			19/08/2025	[NT]	[NT]	[NT]	[NT]	19/08/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	96	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

Result Definitions

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

Quality Control Definitions

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

Appendix H – QA/QC Assessment

Quality Assurance / Quality Control Program

Quality assurance comprises an assessment of the reliability of the field procedures and laboratory results against standard industry practices and the SAQP. A summary of the project QA/QC measures incorporated into this DSI is presented in **Table H-1**.

Table H-1 Project QC Measures

Task	Description	Project
Field QA/QC		
General	Work was to be undertaken following standard field procedures which are based on industry accepted standard practice.	Soil samples were collected directly from the augers. Soil samples were placed in 250 ml glass jars and plastic bags, which were filled to minimise headspace, and sealed using Teflon-coated lids.
	All fieldwork was supervised by a suitably qualified and experienced scientist or engineer.	Yes
Soil Screening with PID	The PID was serviced and calibrated as per manufacturer requirements. PID calibrated at the beginning of each day of fieldwork.	Yes
Equipment Decontamination	Sampling equipment to be decontaminated after the collection of each soil sample by washing with phosphate-free detergent and potable water, followed by a final distilled water rinse. One rinsate blank would be collected and analysed for the primary contaminants. All results should be non-detect.	Yes Two rinsate sample was collected and analysed during the soil and groundwater investigation on 30 June 2025 and 25 July 2025. All results were reported as below the detection limits.
Transport	Samples were stored in an ice-brick chilled cooler box and transported to the laboratories. To ensure the integrity of the samples from collection to receipt by the analytical laboratory, samples were sent by courier to the laboratories under 'chain of custody' describing sample preservation and transport duration.	Yes
Trip Blanks	Trip blank samples were to be prepared and analysed by the primary laboratory for BTEX. Analytical results to be below the laboratory LOR, indicating satisfactory sample transport and handling conditions were achieved.	Two trip blank sample prepared by the primary laboratory were analysed for BTEX. All results were reported below the laboratory LOR, indicating that ideal sample transport and handling conditions were achieved (i.e. no cross-contamination of volatiles during sample transport and subsequent handling).

Task	Description	Project
Trip Spikes	Trip spike samples were to be prepared and analysed by the primary laboratory for BTEX. Analytical results to be within 80-120% recovery, indicating satisfactory sample transport and handling conditions were achieved.	Two trip spike sample prepared by the primary laboratory were analysed for BTEX. All results were within the recovery acceptance levels, indicating that satisfactory sample transport and handling conditions were achieved (i.e. no loss of volatiles during sample transport and subsequent handling).
Duplicates	Field duplicate samples were to be analysed as follows (NEPC, 2013): ▪ intra-laboratory duplicates at a rate of 1 in 20 primary samples; and ▪ inter-laboratory duplicates at a rate of 1 in 20 primary samples. Field and laboratory acceptable limits between 30-50% RPD as stated by AS4482.1–2005. RPDs that exceed this range may be considered acceptable where: ▪ Results are less than 10 times the limits of reporting (LOR); ▪ Results are less than 20 times the LOR and the RPD is less than 50%; or ▪ Heterogeneous materials or volatile compounds are encountered. Non-compliance is to be documented in the report and the sample re-analysed or a higher level conservatively adopted.	The required sampling density of 1 per 20 duplicated primary samples was achieved and sufficient for the investigation. Laboratory duplicates prepared and analysed. Minor non-conformances were identified due to sample heterogeneity, with negligible effects on data use for interpretative purposes. Field QC samples and calculated RPD values are presented in Table 3, Appendix B. Copies of laboratory reports are included in Appendix G.
Laboratory QA/QC		
Laboratory Analysis	The laboratories selected are NATA accredited for the analytes selected and perform their own internal QA/QC programs.	Yes SGS - primary laboratory EnviroLab - secondary laboratory Laboratory QA/QC analyses are included in Appendix I.
	Appropriate detection limits were used for the analyses to be undertaken.	Practical Quantitation Limits for all analysed parameters during this DSI are presented in laboratory analytical reports in Appendix G.
Holding Times	Holding times are the maximum permissible elapsed time in days from the collection of the sample to its extraction and/or analysis. All extraction and analyses should be completed within standard guidelines.	All samples were analysed within the holding times.

Task	Description	Project
Method Blanks	A method blank contains the reagents used to prepare the sample for final analysis. The purpose of this procedure is to identify contamination in the reagent materials and assess potential bias in the sample analysis due to contaminated reagents. The QC criterion aims to find no detectable contamination in the reagents. Each analysis procedure should be subject to a method blank analysis. The results of each should indicate that contaminants were not detected.	Yes
Laboratory Duplicates	Laboratory duplicates are field samples that are split in the laboratory and subsequently analysed a number of times in the same batch. These sub-samples are selected by the laboratory to assess the accuracy and precision of the analytical method. The selected laboratories should undertake QA/QC procedures such as calibration standards, laboratory control samples, surrogates, reference materials, sample duplicates and matrix spikes. Intra-laboratory duplicates should be performed at a frequency of 1 per 10 samples.	Assessment of laboratory duplicates has been undertaken by the laboratory. All laboratory duplicates were within acceptable RPD ranges.
Laboratory Control Standard	A laboratory control standard is a standard reference material used in preparing primary standards. The concentration should be equivalent to a mid-range standard to confirm the primary calibration. Laboratory control samples should be performed on a frequency of 1 per 20 samples or at least one per analytical run.	Assessment of laboratory control standards has been undertaken by the laboratory. All laboratory control standards were within acceptable ranges.
Matrix Spikes	Matrix spikes are field samples to which a predetermined stock solution of known concentration has been added. The samples are then analysed for recovery of the known addition. Recoveries should be within the stated laboratory control limits of 70 to 130% and duplicates should have RPDs of less than 50%.	Assessment of matrix spikes has been undertaken by the laboratory. All data quality objectives were met.
Surrogate Spikes	Surrogate spikes provide a means of checking, for every analysis that no gross errors have occurred at any stage of the procedure leading to significant analyte loss. Recoveries should be within the stated laboratory control limits of 70 to 130%.	Assessment of surrogate spikes has been undertaken by the laboratory. All data quality objectives were met.
Conclusion	The QA/QC indicators should either all comply with the required standards or showed no variations that would have no significant effect on the quality of the data.	Minor non-conformances were identified, which represented soil heterogeneity. Additional sampling or the use of 95% UCL values was recommended for any classification activities, to adequately characterise the heterogeneity identified.

Field QA/QC

Field QC Samples

The field (intra- / inter- laboratory) duplicate samples collected during the investigation are summarised in **Table H-2**. Inter-laboratory duplicates were analysed by the secondary laboratory, Envirolab.

Table H-2 Field QC Sampling Program

Matrix	Primary QA Sample	Duplicate (Primary Lab)	Triplicate (Secondary Lab)	Total Duplicates
Soil	BH1M_0.2-0.3	QD30/6	QT30/6	2
Groundwater	BH1M	QD25/7	QT25/7	2

Field QC Summary

Review of the field QA/QC is presented in **Table H-3** below.

Table H-3 Field Data Quality Indicators

QA Component	Data Quality Indicator(s)	Conformance
Accuracy – a quantitative measure of the closeness of reported data to the “true” value	SOPs appropriate and complied with	Yes
	Results for inter-laboratory (split field) duplicates acceptable	Yes
Precision – A quantitative measure of the variability (or reproducibility) of data	SOPs appropriate and complied with	Yes
	Results for intra-laboratory (blind field) duplicates acceptable	Yes
Completeness – A measure of the amount of useable data from a data collection activity	Each critical location sampled	Yes
	Samples collected at targeted locations and depth	Yes
	SAQP appropriate and complied with	Yes
	Experienced sampler	Yes
	Field documentation correct	Yes
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Same sampling method used on each occasion/location	Yes
	Experienced sampler	Yes
	Same type of samples collected (filtered, size, fractions)	Yes
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	Appropriate media sampled according to SAQP	Yes
	Each media identified in SAQP sampled	Yes
	Appropriate sample collection methodologies, handling, storage and preservation techniques used	Yes

Conclusion for the Field QA/QC

All field work, including equipment decontamination and sample preservation and transport, was conducted in accordance with the SAQP, which were devised with reference to industry-

approved guidelines. Appropriate QC measures were integrated into each sampling event and the DQIs were met.

All samples, including field QC samples, were transported to the primary and secondary laboratories under refrigerated conditions, using strict COC procedures. Relevant documents (COC forms) were presented with the samples at the times of delivery. All supporting documents (COCs and SRAs) were completed in full and signed, where appropriate. EI considered the field QA/QC program carried out during this DSI to be appropriate.

Laboratory QA/QC

Laboratory Accreditation

Primary and intra-laboratory duplicate samples were analysed by SGS (located in Alexandria NSW), with inter-laboratory duplicate samples analysed by Envirolab (located in Chatswood NSW). All laboratories are accredited by NATA for the analyses undertaken.

Laboratory QC Summary

Review of the laboratory data quality indicators is presented in **Table H-4** below.

Table H-4 Laboratory Data Quality Indicators

QA Component	Data Quality Indicator(s)	Conformance
Completeness A measure of the amount of useable data (expressed as %) from a data collection activity	All critical samples analysed according to SAQP and proposal	Yes
	All analytes analysed according to SAQP in proposal	Yes
	Appropriate methods and PQLs	Yes
	Sample documentation complete	Yes
	Sample holding times complied with	Yes
Comparability The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Sample analytical methods used (including clean-up)	Yes
	Same sample PQLs (justify/ quantify if different)	Yes
	Same laboratories (justify/ quantify if different)	Yes
	Same units (justify/ quantify if different)	Yes
Representativeness Confidence that data are representative of each media	All key samples analysed according to SAQP in the proposal	Yes
Precision A quantitative measure of the variability (or reproducibility) of data	Analysis of laboratory duplicates	Partial
	Analysis of field duplicates	Partial
	Analysis of laboratory-prepared volatile trip spikes	Yes

QA Component	Data Quality Indicator(s)	Conformance
Accuracy A quantitative measure of the closeness of reported data to the true value	Analysis of field blanks	Yes
	Analysis of rinsate/ rinsate blanks	Yes
	Analysis of method blanks	Yes
	Analysis of matrix spikes (MS)	Partial
	Analysis of surrogate spikes	Yes
	Analysis of reference materials	Not applicable
	Analysis of laboratory control samples	Yes

Conclusion for the Laboratory QA/QC

All contracted laboratories (SGS and Envirolab) were accredited by NATA for the analyses undertaken. All analytical procedures used were industry recognised and endorsed standard methods. Appropriate QC measures were integrated into each analytical batch and the DQIs were met, or if not, the variability was suitably justified.

All final reports were submitted in full and included all requested analyses, as per the signed COC forms. EI considered the laboratory QA/QC programs carried out during this DSI to be appropriate.

Summary of Project QA/QC

The sampling (including sample preservation, transport and decontamination procedures) and laboratory methods followed during this investigation were consistent with EI protocols. The project DQOs specified in **Section 4.5, Table 4-1** were considered to have been achieved. The adopted QA/QC program ensured that the data collated during this DSI were accurate, precise and representative of the site condition. It was therefore considered that the data were sufficiently precise and accurate and that the results could be used for DSI interpretative purposes.

Appendix I – Laboratory QA/QC Policies and DQOs



STATEMENT OF QA/QC PERFORMANCE

SE285865 R0

CLIENT DETAILS

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Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

LABORATORY DETAILS

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SGS Reference **SE285865 R0**
Date Received 30 Jun 2025
Date Reported 15 Jul 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	TRH (Total Recoverable Hydrocarbons) in Water	1 item
Surrogate	VOC's in Soil	2 items
	Volatile Petroleum Hydrocarbons in Soil	2 items
Duplicate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	8 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	2 items
Matrix Spike	OC Pesticides in Soil	1 item

SAMPLE SUMMARY

Sample counts by matrix	23 Soil, 1 Water	Type of documentation received	COC
Date documentation received	9/7/2025@10:02am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	23.3°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE285865 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

Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353799	30 Jun 2025	30 Jun 2025	30 Jun 2026	10 Jul 2025	30 Jun 2026	15 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353799	08 Jul 2025	30 Jun 2025	08 Jul 2026	10 Jul 2025	08 Jul 2026	15 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353799	08 Jul 2025	30 Jun 2025	08 Jul 2026	10 Jul 2025	08 Jul 2026	15 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353799	08 Jul 2025	30 Jun 2025	08 Jul 2026	10 Jul 2025	08 Jul 2026	15 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353799	08 Jul 2025	30 Jun 2025	08 Jul 2026	10 Jul 2025	08 Jul 2026	15 Jul 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
QR30/6	SE285865.015	LB353708	30 Jun 2025	30 Jun 2025	28 Jul 2025	10 Jul 2025	28 Jul 2025	11 Jul 2025

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
QD30/6	SE285865.014	LB353665	30 Jun 2025	30 Jun 2025	28 Jul 2025	09 Jul 2025	28 Jul 2025	11 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353665	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353665	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353665	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353665	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353664	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353664	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353664	08 Jul 2025	30 Jun 2025	05 Aug 2025	09 Jul 2025	05 Aug 2025	11 Jul 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
QD30/6	SE285865.014	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
TB30/6	SE285865.017	LB353661	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353661	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025



HOLDING TIME SUMMARY

SE285865 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
BH3_0.2-0.3	SE285865.019	LB353661	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353661	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353661	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353660	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353660	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353660	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
QD30/6	SE285865.014	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
QD30/6	SE285865.014	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025

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
HA1_0.2-0.3	SE285865.001	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025



HOLDING TIME SUMMARY

SE285865 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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENV\JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA3_0.7-0.8	SE285865.011	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
QD30/6	SE285865.014	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025

PCBs in Soil

Method: ME-(AU)-ENV\JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
QD30/6	SE285865.014	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	14 Jul 2025

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

Method: ME-(AU)-ENV\JAN040\AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
QD30/6	SE285865.014	LB353663	30 Jun 2025	30 Jun 2025	27 Dec 2025	09 Jul 2025	27 Dec 2025	11 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353663	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353663	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353663	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353663	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353662	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353662	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353662	08 Jul 2025	30 Jun 2025	04 Jan 2026	09 Jul 2025	04 Jan 2026	11 Jul 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-ENV\JAN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR30/6	SE285865.015	LB353693	30 Jun 2025	30 Jun 2025	27 Dec 2025	10 Jul 2025	27 Dec 2025	10 Jul 2025



HOLDING TIME SUMMARY

SE285865 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 Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
QD30/6	SE285865.014	LB353653	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353653	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353657	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	18 Aug 2025	11 Jul 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
QR30/6	SE285865.015	LB353713	30 Jun 2025	30 Jun 2025	07 Jul 2025	10 Jul 2025†	19 Aug 2025	14 Jul 2025

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA3_0.2-0.3	SE285865.003	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
QD30/6	SE285865.014	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
TS30/6	SE285865.016	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
TB30/6	SE285865.017	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR30/6	SE285865.015	LB353650	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	14 Jul 2025

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865.001	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA2_0.2-0.3	SE285865.002	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025



HOLDING TIME SUMMARY

SE285865 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
HA3_0.2-0.3	SE285865.003	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA4_0.2-0.3	SE285865.004	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA5_0.2-0.3	SE285865.005	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.2-0.3	SE285865.006	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA7_0.2-0.3	SE285865.007	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.2-0.3	SE285865.008	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.2-0.3	SE285865.009	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
BH1M_0.7-0.8	SE285865.010	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA3_0.7-0.8	SE285865.011	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA6_0.7-0.8	SE285865.012	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
HA8_0.7-0.8	SE285865.013	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
QD30/6	SE285865.014	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	11 Jul 2025
TS30/6	SE285865.016	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	14 Jul 2025
TB30/6	SE285865.017	LB353659	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	14 Jul 2025
BH2M_0.2-0.3	SE285865.018	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH3_0.2-0.3	SE285865.019	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH4_0.2-0.3	SE285865.020	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH5M_0.2-0.3	SE285865.021	LB353659	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH3_0.7-0.8	SE285865.022	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH4_0.7-0.8	SE285865.023	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 2025
BH5M_0.7-0.8	SE285865.024	LB353658	08 Jul 2025	30 Jun 2025	22 Jul 2025	09 Jul 2025	22 Jul 2025	11 Jul 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
QR30/6	SE285865.015	LB353650	30 Jun 2025	30 Jun 2025	14 Jul 2025	09 Jul 2025	14 Jul 2025	14 Jul 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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	101
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	114
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	101
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	98
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	97
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	102
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	101
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	103
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	98
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	100
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	95
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	101
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	97

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	97
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	108
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	95
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	92
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	91
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	94
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	95
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	95
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	89
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	97
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	92
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	95
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	91
d14-p-terphenyl (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	100
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	116
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	98
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	94
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	99
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	98
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	100
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	102
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	93
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	98
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	98
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	99
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	91

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	HA1_0.2-0.3	SE285865.001	%	70 - 130%	97
	HA2_0.2-0.3	SE285865.002	%	70 - 130%	108
	HA3_0.2-0.3	SE285865.003	%	70 - 130%	95
	HA4_0.2-0.3	SE285865.004	%	70 - 130%	92
	HA5_0.2-0.3	SE285865.005	%	70 - 130%	91
	HA6_0.2-0.3	SE285865.006	%	70 - 130%	94
	HA7_0.2-0.3	SE285865.007	%	70 - 130%	95
	HA8_0.2-0.3	SE285865.008	%	70 - 130%	95
	BH1M_0.2-0.3	SE285865.009	%	70 - 130%	89
	BH1M_0.7-0.8	SE285865.010	%	70 - 130%	93
	HA3_0.7-0.8	SE285865.011	%	70 - 130%	96
	HA6_0.7-0.8	SE285865.012	%	70 - 130%	91
	HA8_0.7-0.8	SE285865.013	%	70 - 130%	95
	BH2M_0.2-0.3	SE285865.018	%	70 - 130%	97
	BH3_0.2-0.3	SE285865.019	%	70 - 130%	92
	BH4_0.2-0.3	SE285865.020	%	70 - 130%	95
	BH5M_0.2-0.3	SE285865.021	%	70 - 130%	91



SURROGATES

SE285865 R0

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

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH3_0.7-0.8	SE285865.022	%	70 - 130%	108
	BH4_0.7-0.8	SE285865.023	%	70 - 130%	105
	BH5M_0.7-0.8	SE285865.024	%	70 - 130%	107
d14-p-terphenyl (Surrogate)	HA1_0.2-0.3	SE285865.001	%	70 - 130%	100
	HA2_0.2-0.3	SE285865.002	%	70 - 130%	116
	HA3_0.2-0.3	SE285865.003	%	70 - 130%	98
	HA4_0.2-0.3	SE285865.004	%	70 - 130%	94
	HA5_0.2-0.3	SE285865.005	%	70 - 130%	99
	HA6_0.2-0.3	SE285865.006	%	70 - 130%	98
	HA7_0.2-0.3	SE285865.007	%	70 - 130%	100
	HA8_0.2-0.3	SE285865.008	%	70 - 130%	102
	BH1M_0.2-0.3	SE285865.009	%	70 - 130%	93
	BH1M_0.7-0.8	SE285865.010	%	70 - 130%	99
	HA3_0.7-0.8	SE285865.011	%	70 - 130%	94
	HA6_0.7-0.8	SE285865.012	%	70 - 130%	102
	HA8_0.7-0.8	SE285865.013	%	70 - 130%	100
	BH2M_0.2-0.3	SE285865.018	%	70 - 130%	98
	BH3_0.2-0.3	SE285865.019	%	70 - 130%	98
	BH4_0.2-0.3	SE285865.020	%	70 - 130%	99
	BH5M_0.2-0.3	SE285865.021	%	70 - 130%	91
	BH3_0.7-0.8	SE285865.022	%	70 - 130%	109
	BH4_0.7-0.8	SE285865.023	%	70 - 130%	107
	BH5M_0.7-0.8	SE285865.024	%	70 - 130%	112
d5-nitrobenzene (Surrogate)	HA1_0.2-0.3	SE285865.001	%	70 - 130%	96
	HA2_0.2-0.3	SE285865.002	%	70 - 130%	108
	HA3_0.2-0.3	SE285865.003	%	70 - 130%	97
	HA4_0.2-0.3	SE285865.004	%	70 - 130%	94
	HA5_0.2-0.3	SE285865.005	%	70 - 130%	94
	HA6_0.2-0.3	SE285865.006	%	70 - 130%	94
	HA7_0.2-0.3	SE285865.007	%	70 - 130%	96
	HA8_0.2-0.3	SE285865.008	%	70 - 130%	96
	BH1M_0.2-0.3	SE285865.009	%	70 - 130%	88
	BH1M_0.7-0.8	SE285865.010	%	70 - 130%	93
	HA3_0.7-0.8	SE285865.011	%	70 - 130%	91
	HA6_0.7-0.8	SE285865.012	%	70 - 130%	88
	HA8_0.7-0.8	SE285865.013	%	70 - 130%	89
	BH2M_0.2-0.3	SE285865.018	%	70 - 130%	87
	BH3_0.2-0.3	SE285865.019	%	70 - 130%	86
	BH4_0.2-0.3	SE285865.020	%	70 - 130%	90
	BH5M_0.2-0.3	SE285865.021	%	70 - 130%	88
	BH3_0.7-0.8	SE285865.022	%	70 - 130%	101
	BH4_0.7-0.8	SE285865.023	%	70 - 130%	98
	BH5M_0.7-0.8	SE285865.024	%	70 - 130%	99

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	101
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	114
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	101
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	98
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	97
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	102
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	101
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	103
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	98
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	100
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	95
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	101
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	97

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units



SURROGATES

SE285865 R0

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

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

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	97
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	96
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	98
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	101
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	93
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	95
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	108
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	108
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	97
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	110
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	110
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	97
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	107
	QD30/6	SE285865.014	%	60 - 130%	100
	TS30/6	SE285865.016	%	60 - 130%	81
	TB30/6	SE285865.017	%	60 - 130%	101
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	99
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	111
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	97
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	90
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	101
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	105
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	167 Ⓢ
d4-1,2-dichloroethane (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	102
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	106
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	99
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	101
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	94
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	91
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	105
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	106
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	94
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	98
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	104
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	98
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	100
	QD30/6	SE285865.014	%	60 - 130%	94
	TS30/6	SE285865.016	%	60 - 130%	110
	TB30/6	SE285865.017	%	60 - 130%	97
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	90
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	112
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	92
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	85
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	70
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	74
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	83
d8-toluene (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	102
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	107
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	98
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	102
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	93
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	90
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	106
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	105
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	92
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	94
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	103
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	97
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	96
	QD30/6	SE285865.014	%	60 - 130%	93
	TS30/6	SE285865.016	%	60 - 130%	109



SURROGATES

SE285865 R0

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

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

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	TB30/6	SE285865.017	%	60 - 130%	95
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	88
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	109
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	92
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	82
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	83
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	57 Ⓢ
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	96

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR30/6	SE285865.015	%	40 - 130%	104
d4-1,2-dichloroethane (Surrogate)	QR30/6	SE285865.015	%	40 - 130%	91
d8-toluene (Surrogate)	QR30/6	SE285865.015	%	40 - 130%	90

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	97
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	96
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	98
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	101
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	93
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	95
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	108
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	108
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	97
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	110
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	110
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	97
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	107
	QD30/6	SE285865.014	%	60 - 130%	100
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	99
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	111
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	97
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	90
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	101
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	105
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	167 Ⓢ
d4-1,2-dichloroethane (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	102
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	106
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	99
	HA4_0.2-0.3	SE285865.004	%	60 - 130%	101
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	94
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	91
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	105
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	106
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	94
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	98
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	104
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	98
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	100
	QD30/6	SE285865.014	%	60 - 130%	94
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	90
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	112
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	92
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	85
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	70
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	74
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	83
d8-toluene (Surrogate)	HA1_0.2-0.3	SE285865.001	%	60 - 130%	102
	HA2_0.2-0.3	SE285865.002	%	60 - 130%	107
	HA3_0.2-0.3	SE285865.003	%	60 - 130%	98



SURROGATES

SE285865 R0

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

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

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	HA4_0.2-0.3	SE285865.004	%	60 - 130%	102
	HA5_0.2-0.3	SE285865.005	%	60 - 130%	93
	HA6_0.2-0.3	SE285865.006	%	60 - 130%	90
	HA7_0.2-0.3	SE285865.007	%	60 - 130%	106
	HA8_0.2-0.3	SE285865.008	%	60 - 130%	105
	BH1M_0.2-0.3	SE285865.009	%	60 - 130%	92
	BH1M_0.7-0.8	SE285865.010	%	60 - 130%	94
	HA3_0.7-0.8	SE285865.011	%	60 - 130%	103
	HA6_0.7-0.8	SE285865.012	%	60 - 130%	97
	HA8_0.7-0.8	SE285865.013	%	60 - 130%	96
	QD30/6	SE285865.014	%	60 - 130%	93
	BH2M_0.2-0.3	SE285865.018	%	60 - 130%	88
	BH3_0.2-0.3	SE285865.019	%	60 - 130%	109
	BH4_0.2-0.3	SE285865.020	%	60 - 130%	92
	BH5M_0.2-0.3	SE285865.021	%	60 - 130%	82
	BH3_0.7-0.8	SE285865.022	%	60 - 130%	83
	BH4_0.7-0.8	SE285865.023	%	60 - 130%	57 ⓘ
	BH5M_0.7-0.8	SE285865.024	%	60 - 130%	96

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR30/6	SE285865.015	%	40 - 130%	104
d4-1,2-dichloroethane (Surrogate)	QR30/6	SE285865.015	%	60 - 130%	91
d8-toluene (Surrogate)	QR30/6	SE285865.015	%	40 - 130%	90



METHOD BLANKS

SE285865 R0

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB353708.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB353664.001	Mercury	mg/kg	0.05	<0.05
LB353665.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB353653.001	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

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB353653.001	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
	Diazinon (Dimpylate)	mg/kg	0.5	<0.5
	Dichlorvos	mg/kg	0.5	<0.5
	Dimethoate	mg/kg	0.5	<0.5
	Ethion	mg/kg	0.2	<0.2
	Fenitrothion	mg/kg	0.2	<0.2
	Malathion	mg/kg	0.2	<0.2
	Methidathion	mg/kg	0.5	<0.5
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	2-fluorobiphenyl (Surrogate)	%	-	105
	d14-p-terphenyl (Surrogate)	%	-	100
Surrogates				

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB353653.001	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



METHOD BLANKS

SE285865 R0

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB353653.001	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)	%	-	105
	2-fluorobiphenyl (Surrogate)	%	-	105
	d14-p-terphenyl (Surrogate)	%	-	100
LB353657.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	107
	2-fluorobiphenyl (Surrogate)	%	-	120
	d14-p-terphenyl (Surrogate)	%	-	130

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB353653.001	Arochlor 1016	mg/kg	0.1	<0.1
	Arochlor 1221	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

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

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

Sample Number	Parameter	Units	LOR	Result
LB353662.001	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
LB353663.001	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



METHOD BLANKS

SE285865 R0

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

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB353693.001	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
LB353653.001	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
LB353657.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB353713.001	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
LB353658.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	84
		d8-toluene (Surrogate)	%	-	85
		Bromofluorobenzene (Surrogate)	%	-	110
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB353659.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104
		d8-toluene (Surrogate)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	109
	Totals	Total BTEX*	mg/kg	0.6	<0.6

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB353650.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	101
		d8-toluene (Surrogate)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	98



METHOD BLANKS

SE285865 R0

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB353658.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	84
LB353659.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB353650.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	101
		d8-toluene (Surrogate)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	98



DUPLICATES

SE285865 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285854.001	LB353664.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE285865.010	LB353665.014	Mercury	mg/kg	0.05	0.06	<0.05	147	12
SE285865.021	LB353665.023	Mercury	mg/kg	0.05	0.11	0.12	73	5
SE285865.024	LB353664.020	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]JAN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285854.001	LB353660.011	% Moisture	%w/w	1	2.3	2.3	73	0
SE285865.010	LB353661.011	% Moisture	%w/w	1	23.5	22.8	34	3
SE285865.021	LB353661.021	% Moisture	%w/w	1	14.6	15.3	37	4
SE285865.024	LB353660.020	% Moisture	%w/w	1	22.6	22.5	34	0

OC Pesticides in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.021	LB353653.023	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	-	0.48	0.58	30	19	

OP Pesticides in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285865.021	LB353653.023	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0	
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0	
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0	
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0	
		Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0	
		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0	
		Ethion	mg/kg	0.2	<0.2	<0.2	200	0	
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0	
		Malathion	mg/kg	0.2	<0.2	<0.2	200	0	
		Methidathion	mg/kg	0.5	<0.5	<0.5	200	0	
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0	
		Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0	
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	17
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	19

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate	Parameter	Units	LOR

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times SDL / Mean + LR$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285854.001	LB353657.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	30	1
SE285865.010	LB353653.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.4	30	5
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE285865.021	LB353653.023	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	0.2	120	47
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	0.2	0.5	60	93 @
		Pyrene	mg/kg	0.1	0.2	0.5	59	93 @
		Benzo(a)anthracene	mg/kg	0.1	0.1	0.3	77	88 @

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.021	LB353653.023	Chrysene	mg/kg	0.1	0.2	0.3	70	74 @
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.2	0.4	62	45
		Benzo(k)fluoranthene	mg/kg	0.1	0.2	0.4	62	49
		Benzo(a)pyrene	mg/kg	0.1	0.3	0.5	56	59 @
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	0.4	65	65
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	0.2	0.4	65	58
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	0.3	0.6	50	59 @
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	0.4	0.7	47	54 @
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	0.4	0.7	60	50
		Total PAH (18)	mg/kg	0.8	1.8	3.8	34	73 @
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	30	19
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	17
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	19
SE285865.024	LB353657.023	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		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
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	5
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	5
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.6	30	4

PCBs in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.021	LB353653.023	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
		Arochlor 1221	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)	-	0.48	0.58	30	19

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 %
SE285865.001	LB353662.014	Arsenic, As	mg/kg	1	<1	<1	200	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	1.5	1.3	66	10
		Copper, Cu	mg/kg	0.5	1.1	0.6	89	51
		Nickel, Ni	mg/kg	0.5	1.7	1.1	66	42
		Lead, Pb	mg/kg	1	<1	<1	159	0
		Zinc, Zn	mg/kg	2	3.0	<2	120	39
SE285865.010	LB353663.014	Arsenic, As	mg/kg	1	5	7	47	26



DUPLICATES

SE285865 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Method: ME-(AU)-[ENV]JAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.010	LB353663.014	Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	28	36	32	26
		Nickel, Ni	mg/kg	0.5	<0.5	<0.5	200	0
		Lead, Pb	mg/kg	1	16	17	36	5
		Zinc, Zn	mg/kg	2	5.8	5.2	66	11
SE285865.021	LB353663.023	Arsenic, As	mg/kg	1	3	7	50	66 @
		Cadmium, Cd	mg/kg	0.3	0.4	0.6	91	28
		Chromium, Cr	mg/kg	0.5	8.7	15	34	55 @
		Copper, Cu	mg/kg	0.5	28	32	32	14
		Nickel, Ni	mg/kg	0.5	3.9	5.1	41	25
		Lead, Pb	mg/kg	1	130	170	31	26
		Zinc, Zn	mg/kg	2	150	170	31	14
SE285865.024	LB353662.020	Arsenic, As	mg/kg	1	4	4	56	10
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	21	20	32	1
		Copper, Cu	mg/kg	0.5	0.6	<0.5	138	14
		Nickel, Ni	mg/kg	0.5	0.7	0.7	100	8
		Lead, Pb	mg/kg	1	12	10	39	17
		Zinc, Zn	mg/kg	2	7.0	4.8	64	36

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]JAN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.015	LB353693.024	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0
SE285904.008	LB353693.014	Arsenic	µg/L	1	<1	<1	178	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Copper	µg/L	1	2	2	69	4
		Lead	µg/L	1	<1	<1	184	0
		Nickel	µg/L	1	2	1	81	7
		Zinc	µg/L	5	12	13	55	2

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.001	LB353657.014	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	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 >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE285865.010	LB353653.014	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0
		TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	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 >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE285865.021	LB353653.023	TRH C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
		TRH C29-C36	mg/kg	45	<45	<45	200	0
		TRH C37-C40	mg/kg	100	<100	<100	200	0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.021	LB353653.023	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	mg/kg	25	<25	<25	200	0
		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
SE285865.024	LB353657.023	TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
		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	mg/kg	25	<25	<25	200	0
		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)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285906.005	LB353713.025	TRH C10-C14	µg/L	50	<50	<50	185	0
		TRH C15-C28	µg/L	200	380	410	81	8
		TRH C29-C36	µg/L	200	550	580	66	5
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C40	µg/L	320	1000	1100	60	7
		TRH F Bands	µg/L	60	67	80	112	17
		TRH >C10-C16	µg/L	60	67	80	112	17
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	67	80	112	17
		TRH >C16-C34 (F3)	µg/L	500	770	820	93	6
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285854.001	LB353658.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0	
		o-xylene	mg/kg	0.1	<0.1	<0.1	200	0	
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	9.7	50	7
			d8-toluene (Surrogate)	mg/kg	-	7.0	7.5	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	12.2	12.1	50	1
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE285865.010	LB353659.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0	
		o-xylene	mg/kg	0.1	<0.1	<0.1	200	0	
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.8	10.4	50	6
			d8-toluene (Surrogate)	mg/kg	-	9.4	10.2	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10.9	50	0
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE285865.021	LB353659.025	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0	
		o-xylene	mg/kg	0.1	<0.1	<0.1	200	0	
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	9.4	50	10
			d8-toluene (Surrogate)	mg/kg	-	8.2	8.9	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10.3	50	13



DUPLICATES

SE285865 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-IENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.021	LB353659.025	Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE285865.024	LB353658.023	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.5	50	3
			d8-toluene (Surrogate)	mg/kg	-	9.6	10.2	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	16.7	11.0	50	41
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

VOCs in Water

Method: ME-(AU)-IENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285828.003	LB353650.021	Monocyclic	Benzene	µg/L	0.5	0.0311813028	0.045099346	200	0
		Aromatic	Toluene	µg/L	0.5	0.0711025958	0.09503441	200	0
			Ethylbenzene	µg/L	0.5	0.0121470689	0.056671592	200	0
			m/p-xylene	µg/L	1	0.0513206157	0.182495468	200	0
			o-xylene	µg/L	0.5	0.0235311970	0.07599094	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	0.0466768333	0.034813051	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.0	8.9	30	2
			d8-toluene (Surrogate)	µg/L	-	9.0	8.8	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10.2	30	3
		Totals	Total BTEX	µg/L	3	0	0	200	0
SE285828.004	LB353650.022	Monocyclic	Benzene	µg/L	0.5	0.0711209528	0.07920951	200	0
		Aromatic	Toluene	µg/L	0.5	0.0486586517	0.055092484	200	0
			Ethylbenzene	µg/L	0.5	0.0122831477	0.032531054	200	0
			m/p-xylene	µg/L	1	0.0468353091	0.103615116	200	0
			o-xylene	µg/L	0.5	0.0258623573	0.043805757	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	0.0484506259	0.033792698	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.3	7.9	30	5
			d8-toluene (Surrogate)	µg/L	-	9.1	8.4	30	8
			Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10.5	30	1
		Totals	Total BTEX	µg/L	3	0	0	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-IENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285854.001	LB353658.014		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	-	9.1	9.7	50	7
			d8-toluene (Surrogate)	mg/kg	-	7.0	7.5	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	12.2	12.1	50	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE285865.010	LB353659.014		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	-	9.8	10.4	50	6
			d8-toluene (Surrogate)	mg/kg	-	9.4	10.2	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10.9	50	0
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE285865.021	LB353659.025		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	-	8.5	9.4	50	10
			d8-toluene (Surrogate)	mg/kg	-	8.2	8.9	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10.3	50	13
		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
SE285865.024	LB353658.023		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285865.024	LB353658.023	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.5	50	3
			d8-toluene (Surrogate)	mg/kg	-	9.6	10.2	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	16.7	11.0	50	41
		VPF F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mo/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285828.003	LB353650.021	TRH C6-C10	µg/L	50	0	3.7862005686	200	0	
		TRH C6-C9	µg/L	40	0	2.6507319293	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.0291371850	8.8751175012	30	2
		d8-toluene (Surrogate)	µg/L	-	8.9849017272	8.7518644931	30	3	
		Bromofluorobenzene (Surrogate)	µg/L	-	10.5549241314	0.1975299505	30	3	
		VPH F Bands	Benzene (F0)	µg/L	0.5	0.0311813028	0.0450993456	200	0
		TRH C6-C10 minus BTEX (F1)	µg/L	50	0	3.7862005686	200	0	
SE285828.004	LB353650.022	TRH C6-C10	µg/L	50	21.2314225262	7.4155061745	200	0	
		TRH C6-C9	µg/L	40	19.8079916062	5.6808913332	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.3257330177	7.9218304680	30	5
		d8-toluene (Surrogate)	µg/L	-	9.1238522735	8.4062484905	30	8	
		Bromofluorobenzene (Surrogate)	µg/L	-	10.6028309759	0.4717265776	30	1	
		VPH F Bands	Benzene (F0)	µg/L	0.5	0.0711209528	0.0792095096	200	0
		TRH C6-C10 minus BTEX (F1)	µg/L	50	21.2314225262	7.4155061745	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 %
LB353664.002	Mercury	mg/kg	0.05	0.23	0.2	80 - 120	115
LB353665.002	Mercury	mg/kg	0.05	0.22	0.2	80 - 120	108

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353653.002	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	88
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	92
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	88
	Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	106
	Endrin	mg/kg	0.1	0.2	0.2	60 - 140	93
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	76
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/ka	-	0.48	0.5	40 - 130

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353653.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	100
	Diazinon (Dimpylate)	mg/kg	0.5	2.4	2	60 - 140	118
	Dichlorvos	mg/kg	0.5	1.9	2	60 - 140	95
	Ethion	mg/kg	0.2	2.4	2	60 - 140	121
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	101

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB353653.002	Naphthalene	mg/kg	0.1	3.8	4	60 - 140	96	
	Acenaphthylene	mg/kg	0.1	4.0	4	60 - 140	100	
	Acenaphthene	mg/kg	0.1	3.9	4	60 - 140	96	
	Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	102	
	Anthracene	mg/kg	0.1	4.1	4	60 - 140	103	
	Fluoranthene	mg/kg	0.1	4.4	4	60 - 140	109	
	Pyrene	mg/kg	0.1	4.3	4	60 - 140	108	
	Benzo(a)pyrene	mg/kg	0.1	4.2	4	60 - 140	105	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	95
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	95
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	101
	LB353657.002	Naphthalene	mg/kg	0.1	4.3	4	60 - 140	108
Acenaphthylene		mg/kg	0.1	4.1	4	60 - 140	104	
Acenaphthene		mg/kg	0.1	4.3	4	60 - 140	108	
Phenanthrene		mg/kg	0.1	4.5	4	60 - 140	111	
Anthracene		mg/kg	0.1	4.3	4	60 - 140	107	
Fluoranthene		mg/kg	0.1	4.3	4	60 - 140	107	
Pyrene		mg/kg	0.1	5.0	4	60 - 140	126	
Benzo(a)pyrene		mg/kg	0.1	3.9	4	60 - 140	98	
Surrogates		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	94
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	107
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	70 - 130	113

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353653.002	Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	102
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.48	0.5	40 - 130

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 %
LB353662.002	Arsenic, As	mg/kg	1	320	318.22	80 - 120	102
	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	90
	Chromium, Cr	mg/kg	0.5	32	38.31	80 - 120	83
	Copper, Cu	mg/kg	0.5	290	290	80 - 120	101
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	96
	Lead, Pb	mg/kg	1	86	89.9	80 - 120	96
	Zinc, Zn	mg/kg	2	250	273	80 - 120	92



LABORATORY CONTROL SAMPLES

SE285865 R0

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 %
LB353663.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	4.6	4.81	70 - 130	95
	Chromium, Cr	mg/kg	0.5	35	38.31	80 - 120	90
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	100
	Lead, Pb	mg/kg	1	92	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	270	273	80 - 120	98

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353693.002	Arsenic	µg/L	1	18	20	80 - 120	90
	Cadmium	µg/L	0.1	20	20	80 - 120	99
	Chromium	µg/L	1	20	20	80 - 120	99
	Copper	µg/L	1	20	20	80 - 120	101
	Lead	µg/L	1	19	20	80 - 120	96
	Nickel	µg/L	1	20	20	80 - 120	99
	Zinc	µg/L	5	21	20	80 - 120	105

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353653.002	TRH C10-C14	mg/kg	20	220	200	60 - 140	112
	TRH F Bands	mg/kg	25	220	200	60 - 140	112
LB353657.002	TRH C10-C14	mg/kg	20	190	200	60 - 140	97
	TRH F Bands	mg/kg	25	200	200	60 - 140	98

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353713.002	TRH C10-C14	µg/L	50	730	1000	60 - 140	73
	TRH F Bands	µg/L	60	740	1000	60 - 140	74

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353658.002	Monocyclic	Benzene	mg/kg	0.1	1.9	2.2	60 - 140	88
	Aromatic	Toluene	mg/kg	0.1	2.1	2.2	60 - 140	95
		Ethylbenzene	mg/kg	0.1	1.9	2.2	60 - 140	87
		m/p-xylene	mg/kg	0.2	4.0	4.4	60 - 140	90
		o-xylene	mg/kg	0.1	1.9	2.2	60 - 140	88
LB353659.002	Monocyclic	Benzene	mg/kg	0.1	2.3	2.2	60 - 140	102
	Aromatic	Toluene	mg/kg	0.1	2.2	2.2	60 - 140	100
		Ethylbenzene	mg/kg	0.1	2.1	2.2	60 - 140	94
		m/p-xylene	mg/kg	0.2	3.2	4.4	60 - 140	74
		o-xylene	mg/kg	0.1	1.6	2.2	60 - 140	74

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353650.002	Monocyclic	Benzene	µg/L	0.5	24	25	60 - 140	95
	Aromatic	Toluene	µg/L	0.5	26	25	60 - 140	104
		Ethylbenzene	µg/L	0.5	24	25	60 - 140	96
		m/p-xylene	µg/L	1	48	50	60 - 140	95
		o-xylene	µg/L	0.5	24	25	60 - 140	95

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353658.002	TRH C6-C10	mg/kg	25	28	35.2	60 - 140	79
	TRH C6-C9	mg/kg	20	25	30.8	60 - 140	81
LB353659.002	TRH C6-C10	mg/kg	25	32	35.2	60 - 140	92
	TRH C6-C9	mg/kg	20	29	30.8	60 - 140	94

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353650.002	TRH C6-C10	µg/L	50	340	400	60 - 140	86
	TRH C6-C9	µg/L	40	310	350	60 - 140	88

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Parth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285865.015	LB353708.004	Mercury	mg/L	0.0001	0.0018	<0.0001	0.008	90

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285829.001	LB353664.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	95
SE285865.001	LB353665.004	Mercury	mg/kg	0.05	0.29	0.12	0.2	83

OC Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285865.001	LB353653.004	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	109
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	117
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	110
		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	0.3	0.2	-	-
		Dieldrin	mg/kg	0.1	0.2	<0.1	0.2	119
		Endrin	mg/kg	0.1	0.2	<0.1	0.2	121
		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	0.5	<0.1	0.2	218 Ⓢ
		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	2.0	0.2	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	2.0	0.2	-	-
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.7	<0.1	-	-
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.51	0.50	-	102

OP Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285865.001	LB353653.004	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.3	<0.2	2	115
		Diazinon (Dimpylate)	mg/kg	0.5	2.5	<0.5	2	125
		Dichlorvos	mg/kg	0.5	2.0	<0.5	2	102
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Ethion	mg/kg	0.2	2.7	<0.2	2	132
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-
		Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	9.5	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	100
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	104

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285829.001	LB353657.004	Naphthalene	mg/kg	0.1	4.4	<0.1	4	110
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285829.001	LB353657.004	Acenaphthylene	mg/kg	0.1	4.4	<0.1	4	108
		Acenaphthene	mg/kg	0.1	4.4	<0.1	4	110
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.6	<0.1	4	112
		Anthracene	mg/kg	0.1	4.4	<0.1	4	109
		Fluoranthene	mg/kg	0.1	4.5	0.3	4	106
		Pyrene	mg/kg	0.1	4.9	0.3	4	116
		Benzo(a)anthracene	mg/kg	0.1	<0.1	0.1	-	-
		Chrysene	mg/kg	0.1	0.1	0.2	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.2	0.5	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.2	-	-
		Benzo(a)pyrene	mg/kg	0.1	4.3	0.3	4	100
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	0.4	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	0.3	0.6	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.4	0.4	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.4	0.5	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.5	0.5	-	-
		Total PAH (18)	mg/kg	0.8	37	2.9	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	97
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	107
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	105
SE285865.001	LB353653.004	Naphthalene	mg/kg	0.1	4.1	<0.1	4	101
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	4.3	<0.1	4	108
		Acenaphthene	mg/kg	0.1	4.1	<0.1	4	102
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.6	<0.1	4	113
		Anthracene	mg/kg	0.1	4.5	<0.1	4	111
		Fluoranthene	mg/kg	0.1	5.4	0.2	4	130
		Pyrene	mg/kg	0.1	5.5	0.2	4	134
		Benzo(a)anthracene	mg/kg	0.1	1.4	<0.1	-	-
		Chrysene	mg/kg	0.1	1.2	0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.9	0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	1.1	0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	5.6	0.2	4	137
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.8	0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	0.2	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	0.7	0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	6.3	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	6.3	0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	6.3	0.3	-	-
		Total PAH (18)	mg/kg	0.8	44	1.1	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	99
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	100
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	104

PCBs in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285865.001	LB353653.004	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
		Arochlor 1221	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	0.5	<0.1	0.4	119
		Total PCBs	mg/kg	0.1	0.5	<0.1	-	-
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.51	0.50	-	102

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

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

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

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

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285829.001	LB353662.004	Arsenic, As	mg/kg	1	50	4	50	92
		Cadmium, Cd	mg/kg	0.3	45	<0.3	50	90
		Chromium, Cr	mg/kg	0.5	54	9.6	50	88
		Copper, Cu	mg/kg	0.5	54	13	50	82
		Nickel, Ni	mg/kg	0.5	51	6.5	50	89
		Lead, Pb	mg/kg	1	52	15	50	74
		Zinc, Zn	mg/kg	2	120	84	50	78
SE285865.001	LB353663.004	Arsenic, As	mg/kg	1	51	7	50	88
		Cadmium, Cd	mg/kg	0.3	45	0.6	50	89
		Chromium, Cr	mg/kg	0.5	63	19	50	88
		Copper, Cu	mg/kg	0.5	110	67	50	90
		Nickel, Ni	mg/kg	0.5	50	3.3	50	93
		Lead, Pb	mg/kg	1	310	260	50	103
		Zinc, Zn	mg/kg	2	230	180	50	104

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285947.001	LB353693.004	Arsenic	µg/L	1	21	1	20	96
		Cadmium	µg/L	0.1	20	<0.1	20	100
		Chromium	µg/L	1	20	<1	20	100
		Copper	µg/L	1	23	2	20	103
		Lead	µg/L	1	20	<1	20	100
		Nickel	µg/L	1	21	<1	20	101
		Zinc	µg/L	5	25	<5	20	109

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285829.001	LB353657.004	TRH C10-C14	mg/kg	20	200	<20	200	99
		TRH C15-C28	mg/kg	45	<45	<45	-	-
		TRH C29-C36	mg/kg	45	140	170	-	-
		TRH C37-C40	mg/kg	100	140	160	-	-
		TRH C10-C36 Total	mg/kg	110	340	170	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	520	370	-	-
		TRH F Bands	mg/kg	25	200	<25	200	99
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	200	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	140	160	-	-
SE285865.001	LB353653.004	TRH >C34-C40 (F4)	mg/kg	120	180	210	-	-
		TRH C10-C14	mg/kg	20	220	<20	200	112
		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-C36 Total	mg/kg	110	220	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	220	<210	-	-
		TRH F Bands	mg/kg	25	220	<25	200	111
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	220	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	-	-
		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%
SE285829.001	LB353658.004	Monocyclic	Benzene	mg/kg	0.1	2.1	<0.1	2.2	97
			Aromatic	Toluene	mg/kg	0.1	2.6	<0.1	2.2
		Ethylbenzene		mg/kg	0.1	2.2	<0.1	2.2	99
		m/p-xylene		mg/kg	0.2	4.9	<0.2	4.4	110
		o-xylene		mg/kg	0.1	2.6	<0.1	2.2	117
		Polycyclic		Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-
			Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	7.3	-
		d8-toluene (Surrogate)		mg/kg	-	11.5	9.9	-	115
		Bromofluorobenzene (Surrogate)		mg/kg	-	12.3	12.4	-	123
		Totals	Total BTEX*	mg/kg	0.6	14	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	7.5	<0.3	-	-
SE285865.001	LB353659.004	Monocyclic	Benzene	mg/kg	0.1	2.5	<0.1	2.2	112

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

VOC's in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285865.001	LB353659.004	Monocyclic	Toluene	mg/kg	0.1	2.5	<0.1	2.2	112
			Aromatic	Ethylbenzene	mg/kg	0.1	2.5	<0.1	2.2
			m/p-xylene	mg/kg	0.2	3.9	<0.2	4.4	88
			o-xylene	mg/kg	0.1	1.9	<0.1	2.2	86
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.4	10.2	-	124
			d8-toluene (Surrogate)	mg/kg	-	12.5	10.2	-	125
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.7	-	94
		Totals	Total BTEX*	mg/kg	0.6	13	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	5.8	<0.3	-	-

VOCs in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE285824.001	LB353650.020	Monocyclic	Benzene	µg/L	0.5	6.86749871684	25	108
		Aromatic	Toluene	µg/L	0.5	0.07175878805	25	116
			Ethylbenzene	µg/L	0.5	0.01245997214	25	118
			m/p-xylene	µg/L	1	0.05092726080	50	125
			o-xylene	µg/L	0.5	0.03776075667	25	125
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	0.10296822103	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.87643388694	-	102
			d8-toluene (Surrogate)	µg/L	-	9.89876407023	-	104
			Bromofluorobenzene (Surrogate)	µg/L	-	10.63152762081	-	100
		Totals	Total BTEX	µg/L	3	6.86749871684	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE285829.001	LB353658.004	TRH C6-C10	mg/kg	25	35	<25	35.2	98	
		TRH C6-C9	mg/kg	20	30	<20	30.8	96	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	7.3	-	88
			d8-toluene (Surrogate)	mg/kg	-	11.5	9.9	-	115
			Bromofluorobenzene (Surrogate)	mg/kg	-	12.3	12.4	-	123
		VPH F	Benzene (F0)	mg/kg	0.1	2.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-
SE285865.001	LB353659.004	TRH C6-C10	mg/kg	25	36	<25	35.2	103	
		TRH C6-C9	mg/kg	20	32	<20	30.8	105	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.4	10.2	-	124
			d8-toluene (Surrogate)	mg/kg	-	12.5	10.2	-	125
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.7	-	94
		VPH F	Benzene (F0)	mg/kg	0.1	2.5	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE285824.001	LB353650.020	TRH C6-C10	µg/L	50	7.74825816566	400	106	
		TRH C6-C9	µg/L	40	6.59488222855	350	112	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.87643388694	-	102
			d8-toluene (Surrogate)	µg/L	-	9.89876407023	-	104
			Bromofluorobenzene (Surrogate)	µg/L	-	10.63152762081	-	100
		VPH F	Benzene (F0)	µg/L	0.5	6.86749871684	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	0.88075944882	-	-



MATRIX SPIKE DUPLICATES

SE285865 R0

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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

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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STATEMENT OF QA/QC PERFORMANCE

SE285865A R0

CLIENT DETAILS

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Email antony.lo@eiaustralia.com.au

Project **E26573 72-88 Water Street, Belfield**
Order Number **E26573**
Samples 24

LABORATORY DETAILS

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Alexandria NSW 2015

Telephone +61 2 8594 0400
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Email au.environmental.sydney@sgs.com

SGS Reference **SE285865A R0**
Date Received 17 Jul 2025
Date Reported 24 Jul 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 (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	1 Soil	Type of documentation received	Email
Date documentation received	17/7/2025@5:27pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	23.3°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE285865A 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)-ENVJAN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865A.001	LB355204	30 Jun 2025	17 Jul 2025	27 Dec 2025	24 Jul 2025	27 Dec 2025	24 Jul 2025

TCLP (Toxicity Characteristic Leaching Procedure) for Metals

Method: ME-(AU)-ENVJAN006

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
HA1_0.2-0.3	SE285865A.001	LB355115	30 Jun 2025	17 Jul 2025	27 Dec 2025	23 Jul 2025	27 Jul 2025	24 Jul 2025



SURROGATES

SE285865A R0

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

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

No surrogates were required for this job.



METHOD BLANKS

SE285865A R0

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Metals in TCLP Extract by ICPOES

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

Sample Number	Parameter	Units	LOR	Result
LB355204.001	Lead, Pb	mg/L	0.02	<0.02



DUPLICATES

SE285865A R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

No duplicates were required for this job.



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 %
LB355204.002	Lead, Pb	mg/L	0.02	0.48	0.5	80 - 120	96



Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

No matrix spikes were required for this job.



MATRIX SPIKE DUPLICATES

SE285865A R0

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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

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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STATEMENT OF QA/QC
PERFORMANCE

SE286801 R0

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Antony Lo	Manager	Shane McDermott
Client	EI AUSTRALIA	Laboratory	SGS Alexandria Environmental
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Email	antony.lo@eiaustralia.com.au	Email	au.environmental.sydney@sgs.com
Project	E26573,72-88 Water Belfield	SGS Reference	SE286801 R0
Order Number	E26573	Date Received	25 Jul 2025
Samples	7	Date Reported	04 Aug 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	E. coli and Thermotolerant coliforms in Water (CFU)	1 item
	Enterococci in Water	1 item

SAMPLE SUMMARY			
Sample counts by matrix	7 Water	Type of documentation received	COC
Date documentation received	25/7/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE286801 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

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355457	25 Jul 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025	08 Aug 2025	28 Jul 2025

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355354	25 Jul 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355609	25 Jul 2025	25 Jul 2025	22 Aug 2025	29 Jul 2025	22 Aug 2025	30 Jul 2025

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355371	25 Jul 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025
BH2M	SE286801.002	LB355371	25 Jul 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025
BH5M	SE286801.003	LB355371	25 Jul 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355348	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025

E. coli and Thermotolerant coliforms in Water (CFU)

Method: ME-(AU)-[ENV]AN703

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355536	25 Jul 2025	25 Jul 2025	26 Jul 2025	28 Jul 2025†	31 Jul 2025	28 Jul 2025

Enterococci in Water

Method: ME-(AU)-[ENV]AN705

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355536	25 Jul 2025	25 Jul 2025	26 Jul 2025	28 Jul 2025†	31 Jul 2025	28 Jul 2025

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355354	25 Jul 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025	22 Aug 2025	25 Jul 2025

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355426	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	01 Aug 2025	29 Jul 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
BH1M	SE286801.001	LB355416	25 Jul 2025	25 Jul 2025	22 Aug 2025	28 Jul 2025	22 Aug 2025	29 Jul 2025
BH2M	SE286801.002	LB355416	25 Jul 2025	25 Jul 2025	22 Aug 2025	28 Jul 2025	22 Aug 2025	29 Jul 2025
BH5M	SE286801.003	LB355416	25 Jul 2025	25 Jul 2025	22 Aug 2025	28 Jul 2025	22 Aug 2025	29 Jul 2025
QD 25/7	SE286801.004	LB355416	25 Jul 2025	25 Jul 2025	22 Aug 2025	28 Jul 2025	22 Aug 2025	29 Jul 2025
QR 25/7	SE286801.005	LB355416	25 Jul 2025	25 Jul 2025	22 Aug 2025	28 Jul 2025	22 Aug 2025	29 Jul 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
BH1M	SE286801.001	LB355393	25 Jul 2025	25 Jul 2025	21 Jan 2026	28 Jul 2025	21 Jan 2026	29 Jul 2025
BH2M	SE286801.002	LB355393	25 Jul 2025	25 Jul 2025	21 Jan 2026	28 Jul 2025	21 Jan 2026	29 Jul 2025
BH5M	SE286801.003	LB355393	25 Jul 2025	25 Jul 2025	21 Jan 2026	28 Jul 2025	21 Jan 2026	29 Jul 2025

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355354	25 Jul 2025	25 Jul 2025	29 Jul 2025	25 Jul 2025	29 Jul 2025	25 Jul 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref



HOLDING TIME SUMMARY

SE286801 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

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
BH2M	SE286801.002	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
BH5M	SE286801.003	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
QD 25/7	SE286801.004	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
QR 25/7	SE286801.005	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355371	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025
BH2M	SE286801.002	LB355371	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025
BH5M	SE286801.003	LB355371	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355347	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355613	25 Jul 2025	25 Jul 2025	22 Aug 2025	29 Jul 2025	22 Aug 2025	30 Jul 2025

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355497	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	04 Aug 2025	28 Jul 2025

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE286801.002	LB355907	25 Jul 2025	25 Jul 2025	08 Aug 2025	31 Jul 2025	08 Aug 2025	31 Jul 2025
BH5M	SE286801.003	LB355907	25 Jul 2025	25 Jul 2025	08 Aug 2025	31 Jul 2025	08 Aug 2025	31 Jul 2025

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355527	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	01 Aug 2025	29 Jul 2025
BH2M	SE286801.002	LB355527	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	01 Aug 2025	29 Jul 2025
BH5M	SE286801.003	LB355527	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	01 Aug 2025	29 Jul 2025

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2M	SE286801.002	LB355433	25 Jul 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025	08 Aug 2025	28 Jul 2025
BH5M	SE286801.003	LB355433	25 Jul 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025	08 Aug 2025	28 Jul 2025

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355613	25 Jul 2025	25 Jul 2025	22 Aug 2025	29 Jul 2025	22 Aug 2025	29 Jul 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
BH1M	SE286801.001	LB355749	25 Jul 2025	25 Jul 2025	21 Jan 2026	30 Jul 2025	21 Jan 2026	31 Jul 2025
BH2M	SE286801.002	LB355749	25 Jul 2025	25 Jul 2025	21 Jan 2026	30 Jul 2025	21 Jan 2026	31 Jul 2025
BH5M	SE286801.003	LB355749	25 Jul 2025	25 Jul 2025	21 Jan 2026	30 Jul 2025	21 Jan 2026	31 Jul 2025
QD 25/7	SE286801.004	LB355749	25 Jul 2025	25 Jul 2025	21 Jan 2026	30 Jul 2025	21 Jan 2026	31 Jul 2025
QR 25/7	SE286801.005	LB355749	25 Jul 2025	25 Jul 2025	21 Jan 2026	30 Jul 2025	21 Jan 2026	31 Jul 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
BH1M	SE286801.001	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
BH2M	SE286801.002	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
BH5M	SE286801.003	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
QD 25/7	SE286801.004	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025
QR 25/7	SE286801.005	LB355405	25 Jul 2025	25 Jul 2025	01 Aug 2025	28 Jul 2025	06 Sep 2025	31 Jul 2025



HOLDING TIME SUMMARY

SE286801 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

Turbidity

Method: ME-(AU)-ENVJAN119

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355349	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025
BH2M	SE286801.002	LB355349	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025
BH5M	SE286801.003	LB355349	25 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025	26 Jul 2025	25 Jul 2025

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
BH2M	SE286801.002	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	29 Jul 2025
BH5M	SE286801.003	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	29 Jul 2025
QD 25/7	SE286801.004	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
QR 25/7	SE286801.005	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
TS 25/7	SE286801.006	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
TB 25/7	SE286801.007	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801.001	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
BH2M	SE286801.002	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
BH5M	SE286801.003	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
QD 25/7	SE286801.004	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
QR 25/7	SE286801.005	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	28 Jul 2025
TS 25/7	SE286801.006	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	31 Jul 2025
TB 25/7	SE286801.007	LB355388	25 Jul 2025	25 Jul 2025	08 Aug 2025	25 Jul 2025	08 Aug 2025	31 Jul 2025



SURROGATES

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

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

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M	SE286801.001	%	40 - 130%	62
	BH2M	SE286801.002	%	40 - 130%	60
	BH5M	SE286801.003	%	40 - 130%	76
d14-p-terphenyl (Surrogate)	BH1M	SE286801.001	%	40 - 130%	64
	BH2M	SE286801.002	%	40 - 130%	63
	BH5M	SE286801.003	%	40 - 130%	78
d5-nitrobenzene (Surrogate)	BH1M	SE286801.001	%	40 - 130%	61
	BH2M	SE286801.002	%	40 - 130%	60
	BH5M	SE286801.003	%	40 - 130%	73

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M	SE286801.001	%	40 - 130%	104
	BH2M	SE286801.002	%	40 - 130%	104
	BH5M	SE286801.003	%	40 - 130%	102
	QD 25/7	SE286801.004	%	40 - 130%	97
	QR 25/7	SE286801.005	%	40 - 130%	103
	TS 25/7	SE286801.006	%	40 - 130%	100
	TB 25/7	SE286801.007	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	BH1M	SE286801.001	%	40 - 130%	103
	BH2M	SE286801.002	%	40 - 130%	102
	BH5M	SE286801.003	%	40 - 130%	102
	QD 25/7	SE286801.004	%	40 - 130%	101
	QR 25/7	SE286801.005	%	40 - 130%	100
	TS 25/7	SE286801.006	%	40 - 130%	105
	TB 25/7	SE286801.007	%	40 - 130%	100
d8-toluene (Surrogate)	BH1M	SE286801.001	%	40 - 130%	98
	BH2M	SE286801.002	%	40 - 130%	99
	BH5M	SE286801.003	%	40 - 130%	98
	QD 25/7	SE286801.004	%	40 - 130%	96
	QR 25/7	SE286801.005	%	40 - 130%	98
	TS 25/7	SE286801.006	%	40 - 130%	104
	TB 25/7	SE286801.007	%	40 - 130%	99

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M	SE286801.001	%	40 - 130%	104
	BH2M	SE286801.002	%	40 - 130%	104
	BH5M	SE286801.003	%	40 - 130%	102
	QD 25/7	SE286801.004	%	40 - 130%	97
	QR 25/7	SE286801.005	%	40 - 130%	103
d4-1,2-dichloroethane (Surrogate)	BH1M	SE286801.001	%	60 - 130%	103
	BH2M	SE286801.002	%	60 - 130%	102
	BH5M	SE286801.003	%	60 - 130%	102
	QD 25/7	SE286801.004	%	60 - 130%	101
	QR 25/7	SE286801.005	%	60 - 130%	100
d8-toluene (Surrogate)	BH1M	SE286801.001	%	40 - 130%	98
	BH2M	SE286801.002	%	40 - 130%	99
	BH5M	SE286801.003	%	40 - 130%	98
	QD 25/7	SE286801.004	%	40 - 130%	96
	QR 25/7	SE286801.005	%	40 - 130%	98



METHOD BLANKS

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Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Alkalinity

Method: ME-(AU)-(ENV)AN135

Sample Number	Parameter	Units	LOR	Result
LB355457.001	Bicarbonate Alkalinity as CaCO ₃	mg/L	5	<5
	Carbonate Alkalinity as CaCO ₃	mg/L	5	<5
	Total Alkalinity as CaCO ₃	mg/L	5	<5

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-(ENV)AN291

Sample Number	Parameter	Units	LOR	Result
LB355354.001	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	<0.01

Anions by Ion Chromatography in Water

Method: ME-(AU)-(ENV)AN245

Sample Number	Parameter	Units	LOR	Result
LB355609.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	0.05	<0.05
	Bromide	mg/L	0.05	<0.05
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	<0.005
	Sulfate, SO ₄	mg/L	1	<1.0

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-(ENV)AN106

Sample Number	Parameter	Units	LOR	Result
LB355371.001	Conductivity @ 25 C	µS/cm	2	<2

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-(ENV)AN176

Sample Number	Parameter	Units	LOR	Result
LB355348.001	Dissolved Oxygen**	mg/L	0.5	<0.5

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-(ENV)AN278

Sample Number	Parameter	Units	LOR	Result
LB355354.001	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Forms of Carbon

Method: ME-(AU)-(ENV)AN190

Sample Number	Parameter	Units	LOR	Result
LB355426.001	Total Organic Carbon as NPOC	mg/L	0.2	<0.2

Mercury (dissolved) in Water

Method: ME-(AU)-(ENV)AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB355416.001	Mercury	mg/L	0.0001	<0.0001

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-(ENV)AN320

Sample Number	Parameter	Units	LOR	Result
LB355393.001	Calcium, Ca	mg/L	0.2	<0.2
	Magnesium, Mg	mg/L	0.1	<0.1
	Potassium, K	mg/L	0.1	<0.1
	Silicon, Si*	mg/L	0.05	<0.05
	Sodium, Na	mg/L	0.5	<0.5

Nitrite in Water

Method: ME-(AU)-(ENV)AN277

Sample Number	Parameter	Units	LOR	Result
LB355354.001	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	<0.005

PAH (Polynuclear Aromatic Hydrocarbons) 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.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB355405.001	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(b&j&k)fluoranthene	µg/L	0.2	<0.2
	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)	%	-	94
	2-fluorobiphenyl (Surrogate)	%	-	96
	d14-p-terphenyl (Surrogate)	%	-	96

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result
LB355497.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result
LB355907.001	Total Cyanide	mg/L	0.004	<0.004

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Number	Parameter	Units	LOR	Result
LB355527.001	Total Dissolved Solids Dried at 175-185°C	mg/L	10	<10

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB355433.001	Total Phenols	mg/L	0.05	<0.05

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result
LB355613.001	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB355749.001	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5



METHOD BLANKS

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

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB355749.001	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	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
LB355405.001	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

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Number	Parameter	Units	LOR	Result
LB355349.001	Turbidity	NTU	0.5	<0.5

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB355388.001	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
	Halogenated Aliphatics	1,2-dibromoethane (EDB)	µg/L	0.5	<0.5
		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
		cis-1,4-dichloro-2-butene	µg/L	1	<1
		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



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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)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB355388.001	Halogenated Aromatics	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)	%	-	97
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	99
	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)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB355388.001	Surrogates	TRH C6-C9	µg/L	40	<40
		d4-1,2-dichloroethane (Surrogate)	%	-	97
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	99



DUPLICATES

SE286801 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Alkalinity

Method: ME-(AU)-[ENV]AN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.001	LB355457.007	Bicarbonate Alkalinity as CaCO3	mg/L	5	230	230	17	0
		Carbonate Alkalinity as CaCO3	mg/L	5	<5	<5	200	0
		Total Alkalinity as CaCO3	mg/L	5	230	230	17	0

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286750.002	LB355354.014	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	7.3	7.1	15	2
SE286794.003	LB355354.024	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	0.15	0.14	22	3

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.001	LB355609.025	Fluoride	mg/L	0.1	0.40	0.40	40	1
		Chloride	mg/L	0.05	2100	2000	15	3
		Bromide	mg/L	0.05	1.3	1.4	19	11
		Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.025	<0.025	200	0
		Sulfate, SO4	mg/L	1	350	350	15	0

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355371.011	Conductivity @ 25 C	µS/cm	2	5400	5400	15	0

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286794.003	LB355348.006	Dissolved Oxygen**	mg/L	0.5	5.4	5.3	24	2

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286750.002	LB355354.014	Filterable Reactive Phosphorus as P	mg/L	0.005	4.8	4.6	15	4
SE286794.003	LB355354.024	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005	<0.005	200	0

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.001	LB355426.012	Total Organic Carbon as NPOC	mg/L	0.2	19	18	16	3

Metals in Water (Dissolved) by ICPOES

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286672.002	LB355393.014	Calcium, Ca	mg/L	0.2	26	26	16	1
		Magnesium, Mg	mg/L	0.1	14	14	16	1
		Potassium, K	mg/L	0.1	7.4	7.3	16	1
		Sodium, Na	mg/L	0.5	75	75	16	1
SE286801.003	LB355393.029	Calcium, Ca	mg/L	0.2	5.9	5.8	18	1
		Magnesium, Mg	mg/L	0.1	80	80	15	0

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286750.002	LB355354.014	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.097	0.096	20	1
SE286794.003	LB355354.024	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005	<0.005	147	0

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355405.025	Naphthalene	µg/L	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355405.025	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(b&j&k)fluoranthene	µg/L	0.2	<0.2	<0.2	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	-	0.36	0.3	30	5
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.38	0.4	30	7
		d14-p-terphenyl (Surrogate)	µg/L	-	0.39	0.4	30	4

pH in water

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355371.011	pH**	pH Units	0.1	5.2	5.2	17	1

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286794.003	LB355347.005	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	378	376	15	0

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286755.001	LB355613.014	Total Kjeldahl Nitrogen	mg/L	0.05	0.63	0.61	23	2
SE286801.001	LB355613.021	Total Kjeldahl Nitrogen	mg/L	0.05	11	10	15	7

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286707.001	LB355497.015	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5	<5	200	0
SE286709.001	LB355497.013	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5	<5	148	0

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355527.009	Total Dissolved Solids Dried at 175-185°C	mg/L	10	3400	3400	15	0

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286782.002	LB355433.014	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE286801.003	LB355433.018	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286755.001	LB355613.014	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	11	10	15	5
SE286801.001	LB355613.021	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	9.5	9.1	15	4



DUPLICATES

SE286801 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286367A.004	LB355749.014	Aluminium	µg/L	5	140	140	19	2
		Antimony	µg/L	1	<1	<1	200	0
		Arsenic	µg/L	1	<1	<1	133	0
		Barium	µg/L	1	38	37	18	3
		Beryllium	µg/L	1	<1	<1	200	0
		Boron	µg/L	5	7600	8400	15	10
		Cadmium	µg/L	0.1	0.2	0.1	80	23
		Chromium	µg/L	1	<1	<1	200	0
		Cobalt	µg/L	1	4	4	40	0
		Copper	µg/L	1	<1	<1	200	0
		Iron	µg/L	5	<5	<5	200	0
		Lead	µg/L	1	<1	<1	200	0
		Manganese	µg/L	1	470	470	15	0
		Molybdenum	µg/L	1	5	4	37	8
		Nickel	µg/L	1	13	15	22	14
		Selenium	µg/L	1	<1	<1	126	0
		Silver	µg/L	1	<1	<1	174	0
		Strontium	µg/L	1	2500	2500	15	0
		Uranium	µg/L	1	<1	<1	200	0
		Vanadium	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	14	10	57	34
SE286801.005	LB355749.024	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	177	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.003	LB355405.025	TRH C10-C14	µg/L	50	110	110	75	4
		TRH C15-C28	µg/L	200	<200	<200	153	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	330	380	119	14
		TRH >C10-C16	µg/L	60	120	120	81	5
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	120	120	81	5
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
		TRH F Bands						

Turbidity

Method: ME-(AU)-[ENV]AN119

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286794.003	LB355349.008	Turbidity	NTU	0.5	7500	7500	15	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286775.001	LB355388.021	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			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	-	9.9	9.9	30
		d8-toluene (Surrogate)		µg/L	-	9.5	9.5	30	0
		Bromofluorobenzene (Surrogate)		µg/L	-	10.4	10.4	30	0
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE286801.001	LB355388.020	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Toluene	µg/L	0.5	0.6	0.6	115	1
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0



DUPLICATES

SE286801 R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE286801.001	LB355388.020	Monocyclic	m/p-xylene	µg/L	1	<1	<1	200	0
		Aromatic	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	-	10.3	10.2	30	1
			d8-toluene (Surrogate)	µg/L	-	9.8	9.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.4	10.9	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE286775.001	LB355388.021	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	-	9.9	9.9	30	0
			d8-toluene (Surrogate)	µg/L	-	9.5	9.5	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	10.4	10.4	30	0
		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
SE286801.001	LB355388.020	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	10.2	30	1
			d8-toluene (Surrogate)	µg/L	-	9.8	9.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.4	10.9	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0



LABORATORY CONTROL SAMPLES

SE286801 R0

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.

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355354.002	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	2.8	2.5	80 - 120	111

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355609.002	Fluoride	mg/L	0.1	2.0	2	80 - 120	102
	Chloride	mg/L	0.05	19	20	80 - 120	94
	Bromide	mg/L	0.05	1.8	2	80 - 120	92
	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	1.9	2	80 - 120	97
	Sulfate, SO ₄	mg/L	1	20	20	80 - 120	102

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355371.002	Conductivity @ 25 C	µS/cm	2	990	1015	85 - 115	97

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355354.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.10	0.1	80 - 120	100

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355426.002	Total Organic Carbon as NPOC	mg/L	0.2	20	20	80 - 120	101

Metals in Water (Dissolved) by ICPOES

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355393.002	Calcium, Ca	mg/L	0.2	54	50.5	80 - 120	106
	Lithium, Li	mg/L	0.005	0.096	0.1	80 - 120	96
	Magnesium, Mg	mg/L	0.1	49	50.5	80 - 120	97
	Potassium, K	mg/L	0.1	54	55	80 - 120	97
	Silicon, Si*	mg/L	0.05	0.27	0.25	80 - 120	110
	Sodium, Na	mg/L	0.5	51	50.5	80 - 120	101

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355354.002	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.10	0.1	80 - 120	100

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355405.002	Naphthalene	µg/L	0.1	43	40	60 - 140	108
	Acenaphthylene	µg/L	0.1	48	40	60 - 140	121
	Acenaphthene	µg/L	0.1	47	40	60 - 140	118
	Phenanthrene	µg/L	0.1	50	40	60 - 140	124
	Anthracene	µg/L	0.1	45	40	60 - 140	113
	Fluoranthene	µg/L	0.1	48	40	60 - 140	121
	Pyrene	µg/L	0.1	48	40	60 - 140	119
	Benzo(a)pyrene	µg/L	0.1	52	40	60 - 140	131
	Surrogates						
	d5-nitrobenzene (Surrogate)	µg/L	-	0.36	0.5	40 - 130	72
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.45	0.5	40 - 130	90
	d14-p-terphenyl (Surrogate)	µg/L	-	0.41	0.5	40 - 130	82

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355371.003	pH**	pH Units	0.1	7.4	7.415	98 - 102	100



LABORATORY CONTROL SAMPLES

SE286801 R0

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.

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355347.001	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	437	428	90 - 110	102

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355497.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	95	100	80 - 120	95

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355907.002	Total Cyanide	mg/L	0.004	0.027	0.025	80 - 120	107

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355433.002	Total Phenols	mg/L	0.05	0.21	0.2	80 - 120	105

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355613.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	1	80 - 120	106

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355749.002	Aluminium	µg/L	5	22	20	80 - 120	111
	Antimony	µg/L	1	21	20	80 - 120	107
	Arsenic	µg/L	1	22	20	80 - 120	110
	Barium	µg/L	1	21	20	80 - 120	107
	Beryllium	µg/L	1	22	20	80 - 120	110
	Boron	µg/L	5	21	20	80 - 120	103
	Cadmium	µg/L	0.1	23	20	80 - 120	116
	Chromium	µg/L	1	23	20	80 - 120	115
	Cobalt	µg/L	1	23	20	80 - 120	114
	Copper	µg/L	1	23	20	80 - 120	113
	Iron	µg/L	5	22	20	80 - 120	109
	Lead	µg/L	1	22	20	80 - 120	109
	Manganese	µg/L	1	22	20	80 - 120	108
	Molybdenum	µg/L	1	23	20	80 - 120	114
	Nickel	µg/L	1	22	20	80 - 120	111
	Selenium	µg/L	1	22	20	80 - 120	110
	Silver	µg/L	1	17	20	80 - 120	87
	Strontium	µg/L	1	23	20	80 - 120	114
	Uranium	µg/L	1	21	20	80 - 120	106
	Vanadium	µg/L	1	22	20	80 - 120	112
	Zinc	µg/L	5	21	20	80 - 120	107

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355405.002	TRH C10-C14	µg/L	50	930	1000	60 - 140	93
	TRH F Bands TRH >C10-C16	µg/L	60	950	1000	60 - 140	95

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB355388.002	Halogenated	1,1-dichloroethene	µg/L	0.5	53	45.45	60 - 140	117
	Aliphatics	1,2-dichloroethane	µg/L	0.5	47	45.45	60 - 140	105
		Trichloroethene (Trichloroethylene, TCE)	µg/L	0.5	47	45.45	60 - 140	104
	Halogenated	Chlorobenzene	µg/L	0.5	37	45.45	60 - 140	81



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 %
LB355388.002	Monocyclic	Benzene	µg/L	0.5	28	25	60 - 140	114
		Toluene	µg/L	0.5	26	25	60 - 140	103
	Aromatic	Ethylbenzene	µg/L	0.5	25	25	60 - 140	99
		m/p-xylene	µg/L	1	51	50	60 - 140	102
		o-xylene	µg/L	0.5	27	25	60 - 140	107
	Trihalomethan	Chloroform (THM)	µg/L	0.5	50	45.45	60 - 140	110

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter		Units	LOR	Result	Expected	Criteria %	Recovery %
LB355388.002	TRH C6-C10		µg/L	50	420	400	60 - 140	104
	TRH C6-C9		µg/L	40	410	350	60 - 140	117

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286737.001	LB355354.004	Ammonia Nitrogen, NH ₃ as N	mg/L	0.01	3.1	0.39	2.5	108

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286853.001	LB355609.026	Nitrate Nitrogen, NO ₃ -N	mg/L	0.005	2.0	0.0242	2	99

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286737.001	LB355354.004	Filterable Reactive Phosphorus as P	mg/L	0.005	0.11	<0.005	0.1	102

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286760.001	LB355416.004	Mercury	mg/L	0.0001	0.0020	-0.042	0.008	104

Metals in Water (Dissolved) by ICPOES

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286615.001	LB355393.004	Calcium, Ca	mg/L	0.2	520	460	50.5	118

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286737.001	LB355354.004	Nitrite Nitrogen, NO ₂ as N	mg/L	0.005	0.095	<0.005	0.1	94

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286794.001	LB355613.022	Total Kjeldahl Nitrogen	mg/L	0.05	3.6	1.1	2.5	101

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286982.001	LB355907.013	Total Cyanide	mg/L	0.004	0.022	0.00135	0.025	82

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286674.001	LB355433.004	Total Phenols	mg/L	0.05	0.20	<0.05	0.2	102

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286794.001	LB355613.022	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.3	0.34	1	95

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

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

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286760.001	LB355749.004	Aluminium	µg/L	5	23	1.023	20	108
		Antimony	µg/L	1	22	0.088	20	111
		Arsenic	µg/L	1	22	0.083	20	111
		Barium	µg/L	1	240	216.345	20	98
		Cadmium	µg/L	0.1	23	0.002	20	116
		Copper	µg/L	1	23	0.195	20	112
		Iron	µg/L	5	22	1.172	20	104
		Lead	µg/L	1	22	0.01	20	108
		Manganese	µg/L	1	49	28.912	20	103
		Molybdenum	µg/L	1	20	0.111	20	99
		Nickel	µg/L	1	23	1.103	20	111
		Selenium	µg/L	1	23	-0.426	20	118
		Strontium	µg/L	1	480	457.512	20	100
		Zinc	µg/L	5	30	7.294	20	113

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286774.001	LB355388.022	Monocyclic Aromatic	Benzene	µg/L	0.5	29	<0.5	25	116
			Toluene	µg/L	0.5	26	<0.5	25	104
			Ethylbenzene	µg/L	0.5	25	<0.5	25	102
			m/p-xylene	µg/L	1	52	<1	50	104
			o-xylene	µg/L	0.5	27	<0.5	25	107
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	-	-
			Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.0	10.1	-
		d8-toluene (Surrogate)		µg/L	-	10.0	9.8	-	100
		Bromofluorobenzene (Surrogate)		µg/L	-	10.3	10.5	-	103
		Totals	Total BTEX	µg/L	3	160	<3	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE286774.001	LB355388.022	TRH C6-C10	µg/L	50	340	<50	400	85	
		TRH C6-C9	µg/L	40	290	<40	350	82	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.0	10.1	-	110
			d8-toluene (Surrogate)	µg/L	-	10.0	9.8	-	100
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.5	-	103
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	180	<50	-	-



MATRIX SPIKE DUPLICATES

SE286801 R0

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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

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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STATEMENT OF QA/QC PERFORMANCE

SE286801A R0

CLIENT DETAILS

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Project **E26573,72-88 Water Belfield - Additional**
Order Number **E26573**
Samples 7

LABORATORY DETAILS

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SGS Reference **SE286801A R0**
Date Received 04 Aug 2025
Date Reported 06 Aug 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	TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water	1 item

SAMPLE SUMMARY

Sample counts by matrix	1 Water	Type of documentation received	Email
Date documentation received	4/8/2025@1:49pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE286801A 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 Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH5M	SE286801A.003	LB356311	25 Jul 2025	04 Aug 2025	01 Aug 2025	05 Aug 2025†	14 Sep 2025	06 Aug 2025



SURROGATES

SE286801A R0

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

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

No surrogates were required for this job.



METHOD BLANKS

SE286801A R0

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB356311.001	TRH C10-C14-Silica	µg/L	50	<50
	TRH C15-C28-Silica	µg/L	200	<200
	TRH C29-C36-Silica	µg/L	200	<200
	TRH C37-C40-Silica	µg/L	200	<200



DUPLICATES

SE286801A R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times SDL / Mean + LR$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356311.002	TRH C10-C14-Silica	µg/L	50	790	1000	60 - 140	79
	TRH >C10-C16-Silica	µg/L	60	790	1000	60 - 140	79



Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier 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

SE286801A R0

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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

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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STATEMENT OF QA/QC
PERFORMANCE

SE286801B R0

CLIENT DETAILS		LABORATORY DETAILS	
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Email	antony.lo@eiaustralia.com.au	Email	au.environmental.sydney@sgs.com
Project	E26573,72-88 Water Belfield - Additional	SGS Reference	SE286801B R0
Order Number	E26573	Date Received	05 Aug 2025
Samples	7	Date Reported	12 Aug 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	Full 8270 SVOC in Water 1 item
	OC Pesticides in Water 1 item
	OP Pesticides in Water 1 item
	PCBs in Water 1 item

SAMPLE SUMMARY			
Sample counts by matrix	1 Water	Type of documentation received	Email
Date documentation received	5/8/2025@1:57pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	12.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		



HOLDING TIME SUMMARY

SE286801B 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

Full 8270 SVOC in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356442	25 Jul 2025	05 Aug 2025	01 Aug 2025	06 Aug 2025†	15 Sep 2025	11 Aug 2025

OC Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356442	25 Jul 2025	05 Aug 2025	01 Aug 2025	06 Aug 2025†	15 Sep 2025	07 Aug 2025

OP Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356442	25 Jul 2025	05 Aug 2025	01 Aug 2025	06 Aug 2025†	15 Sep 2025	06 Aug 2025

PCBs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356442	25 Jul 2025	05 Aug 2025	01 Aug 2025	06 Aug 2025†	15 Sep 2025	07 Aug 2025

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356404	25 Jul 2025	05 Aug 2025	22 Aug 2025	05 Aug 2025	02 Sep 2025	06 Aug 2025

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356714	25 Jul 2025	05 Aug 2025	08 Aug 2025	08 Aug 2025	08 Aug 2025	08 Aug 2025

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1M	SE286801B.001	LB356456	25 Jul 2025	05 Aug 2025	08 Aug 2025	06 Aug 2025	08 Aug 2025	08 Aug 2025



SURROGATES

SE286801B R0

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

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

Full 8270 SVOC in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	100
2-fluorobiphenyl (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	82
d14-p-terphenyl (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	92
d5-nitrobenzene (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	102
d5-phenol (Surrogate)	BH1M	SE286801B.001	%	20 - 130%	74

OC Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	128

OP Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	76
d14-p-terphenyl (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	80

PCBs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	128

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	49
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 300%	89
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 300%	95
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 300%	96
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	49
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	88
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	90
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	77
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	5 - 150%	103
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	96
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	94
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	35 - 150%	89
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	60
(13C7-PFUDa) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	30 - 150%	51
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	66
(13C8-PFOSA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	20 - 150%	68
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	40 - 150%	71
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	57
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	30 - 170%	45
(D5-N-EtFOSA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	52
(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	20 - 150%	63
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	51
(D9-N-EtFOSE) Isotopically Labelled Internal Recovery Standard	BH1M	SE286801B.001	%	10 - 150%	66

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	112
d4-1,2-dichloroethane (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	98
d8-toluene (Surrogate)	BH1M	SE286801B.001	%	40 - 130%	97



METHOD BLANKS

SE286801B R0

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

Full 8270 SVOC in Water

Method: ME-(AU)-ENVJAN420

Sample Number		Parameter	Units	LOR	Result
LB356442.001	01-PAHs	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(b&j&k)fluoranthene	µg/L	0.2	<0.2
		Benzo(a)pyrene	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
		1-methylnaphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	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
		2-acetylaminofluorene	µg/L	0.5	<0.5
		7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
		3-methylcholanthrene	µg/L	0.5	<0.5
	02-OCs	Aldrin	µg/L	0.1	<0.1
		Alpha-BHC	µg/L	0.1	<0.1
		Beta-BHC	µg/L	0.1	<0.1
		Delta-BHC	µg/L	0.1	<0.1
		Gamma-BHC (Lindane)	µg/L	0.1	<0.1
		p,p-DDD	µg/L	0.1	<0.1
		p,p-DDE	µg/L	0.1	<0.1
		p,p-DDT	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Alpha-endosulfan	µg/L	0.1	<0.1
		Beta-endosulfan	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
		Alpha-chlordane	µg/L	0.1	<0.1
		Gamma-chlordane	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
	03-OPs	Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
		Bromophos ethyl	µg/L	0.2	<0.2
		Carbophenothion	µg/L	0.5	<0.5
		Chlorfenvinphos-cis	µg/L	5	<5
		Chlorfenvinphos-trans	µg/L	0.5	<0.5
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Chlorpyrifos-methyl	µg/L	0.5	<0.5
		Co-Ral (Coumaphos)	µg/L	0.5	<0.5
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Demeton-S-methyl	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Disulfoton (Di-syston)	µg/L	0.5	<0.5
		EPN*	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
		Famphur (Famophos)	µg/L	0.5	<0.5
		Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
		Fenchlorophos (Ronnel)	µg/L	0.5	<0.5
		Fenitrothion	µg/L	0.2	<0.2
		Fenthion	µg/L	0.5	<0.5
		Malathion (Maldison)	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5



METHOD BLANKS

SE286801B R0

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Full 8270 SVOC in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Number		Parameter	Units	LOR	Result
LB356442.001	03-OPs	Mevinphos-cis/trans	µg/L	1	<1
		o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
		Parathion ethyl (Parathion)	µg/L	0.2	<0.2
		Parathion methyl	µg/L	0.5	<0.5
		Phorate	µg/L	0.5	<0.5
		Pirimiphos-ethyl	µg/L	0.5	<0.5
		Pirimiphos-methyl	µg/L	0.5	<0.5
		Profenofos	µg/L	0.5	<0.5
		Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
	04-PCB UPAC(7) Congeners	Sulfotepp	µg/L	0.5	<0.5
		PCB Congener C28	µg/L	0.1	<0.1
		PCB Congener C52	µg/L	0.1	<0.1
		PCB Congener C101	µg/L	0.1	<0.1
		PCB Congener C118	µg/L	0.1	<0.1
		PCB Congener C138	µg/L	0.1	<0.1
		PCB Congener C153	µg/L	0.1	<0.1
	05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	PCB Congener C180	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
		Hexachlorocyclopentadiene	µg/L	2	<2
		Hexachloroethane	µg/L	0.5	<0.5
		Hexachloropropene	µg/L	0.5	<0.5
		Pentachlorobenzene	µg/L	0.5	<0.5
		Pentachloroethane	µg/L	0.5	<0.5
		1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
		1/2-Chloronaphthalene	µg/L	1	<1
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10
		Bis(2-ethylhexyl)adipate	µg/L	1	<1
		Butyl benzyl phthalate	µg/L	1	<1
		Di-n-butyl phthalate	µg/L	10	<10
		Diethyl phthalate	µg/L	5	<5
		Dimethyl phthalate	µg/L	1	<1
		Di-n-octyl phthalate	µg/L	1	<1
	07-Carbamates	Carbofuran	µg/L	0.5	<0.5
		Carbaryl	µg/L	0.5	<0.5
08-Herbicides (normal)		Trifluralin	µg/L	0.5	<0.5
09-Nitrosamines		N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
		N-nitroso-diethylamine (NDEA)	µg/L	1	<1
		N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
		N-nitroso-morpholine (NMOR)	µg/L	1	<1
		N-nitroso-piperidine (NPPI)	µg/L	1	<1
		N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
		4-amino biphenyl	µg/L	1	<1
10-Nitroaromatics and Ketones		Acetophenone	µg/L	1	<1
		1,3-dinitrobenzene	µg/L	1	<1
		2,4-dinitrotoluene	µg/L	1	<1
		2,6-dinitrotoluene	µg/L	1	<1
		Isophorone	µg/L	1	<1
		Nitrobenzene	µg/L	1	<1
		p-(dimethylamino) azobenzene	µg/L	1	<1
		Phenacetin	µg/L	1	<1
		Pentachloronitrobenzene (quintozene)	µg/L	1	<1
11-Anilines and Amines		Aniline	µg/L	5	<5
		4-chloroaniline	µg/L	1	<1
		2-nitroaniline	µg/L	1	<1
		3-nitroaniline	µg/L	1	<1



METHOD BLANKS

SE286801B R0

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Full 8270 SVOC in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Number		Parameter	Units	LOR	Result
LB356442.001	11-Anilines and Amines	4-nitroaniline	µg/L	1	<1
		Diphenylamine	µg/L	1	<1
		o-toluidine	µg/L	1	<1
		5-nitro-o-toluidine	µg/L	1	<1
		1-naphthylamine	µg/L	2	<2
		2-naphthylamine	µg/L	2	<2
	12-Haloethers	Bis(2-chloroethoxy) methane	µg/L	1	<1
		Bis(2-chloroethyl) ether	µg/L	1	<1
		Bis(2-chloroisopropyl) ether	µg/L	1	<1
		4-chlorophenyl phenyl ether	µg/L	1	<1
	13-Other SVOCs	4-bromophenyl phenyl ether	µg/L	1	<1
		Methyl methanesulfonate	µg/L	1	<1
		Ethyl methanesulfonate	µg/L	1	<1
		Dibenzofuran	µg/L	1	<1
		Benzyl alcohol	µg/L	1	<1
		Safrole	µg/L	1	<1
		Isosafrole Isomer 1	µg/L	1	<1
		Isosafrole Isomer 2	µg/L	1	<1
		1,4-naphthoquinone	µg/L	1	<1
		Thionazin	µg/L	1	<1
	14-Speciated Routine Phenols	3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
		2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		Phenol	µg/L	0.5	<0.5
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		Pentachlorophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
	Surrogates	d5-phenol (Surrogate)	%	-	122
		d5-nitrobenzene (Surrogate)	%	-	130
		2-fluorobiphenyl (Surrogate)	%	-	114
		2,4,6-Tribromophenol (Surrogate)	%	-	124
		d14-p-terphenyl (Surrogate)	%	-	112

OC Pesticides in Water

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB356442.001	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



METHOD BLANKS

SE286801B R0

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Total Phenolics in Water

Method: ME-(AU)-ENVJAN295

Sample Number	Parameter	Units	LOR	Result
LB356714.001	Total Phenols	mg/L	0.05	<0.05

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB356456.001	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
		cis-1,4-dichloro-2-butene	µg/L	1	<1
		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
	Monocyclic Aromatic Hydrocarbons	1,2,3-trichlorobenzene	µg/L	0.5	<0.5
		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



METHOD BLANKS

SE286801B R0

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VOCs in Water (continued)

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB356456.001	Monocyclic Aromatic	sec-butylbenzene	µg/L	0.5	<0.5
	Hydrocarbons	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)	%	-	90
		Bromofluorobenzene (Surrogate)	%	-	101
	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



DUPLICATES

SE286801B R0

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

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Phenolics in Water

Method: ME-(AU)-ENVJAN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE287223.003	LB356714.014	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE287343.001	LB356714.020	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

VOCs in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE287114.001	LB356456.023	Monocyclic	Benzene	µg/L	0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.0	30	16
			d8-toluene (Surrogate)	µg/L	-	8.9	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	30	2
		Totals	Total BTEX	µg/L	3	<3	200	0
SE287170.001	LB356456.024	Monocyclic	Benzene	µg/L	0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.9	30	10
			d8-toluene (Surrogate)	µg/L	-	8.9	30	9
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	30	4
		Totals	Total BTEX	µg/L	3	<3	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.

Full 8270 SVOC in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB356442.002	01-PAHs	Acenaphthene	µg/L	0.1	39	40	60 - 140	98
		Acenaphthylene	µg/L	0.1	39	40	60 - 140	98
		Anthracene	µg/L	0.1	36	40	60 - 140	91
		Benzo(a)pyrene	µg/L	0.1	49	40	60 - 140	122
		Fluoranthene	µg/L	0.1	35	40	60 - 140	87
		Naphthalene	µg/L	0.1	28	40	60 - 140	71
		Phenanthrene	µg/L	0.1	38	40	60 - 140	94
	02-OCs	Pyrene	µg/L	0.1	36	40	60 - 140	91
		Aldrin	µg/L	0.1	3.6	4	60 - 140	90
		Delta-BHC	µg/L	0.1	4.3	4	60 - 140	109
		p,p-DDT	µg/L	0.1	3.0	4	60 - 140	75
		Dieldrin	µg/L	0.1	4.4	4	60 - 140	111
		Endrin	µg/L	0.1	3.4	4	60 - 140	85
		Heptachlor	µg/L	0.1	2.9	4	60 - 140	72
	03-OPs	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.8	8	60 - 140	98
		Diazinon (Dimpylate)	µg/L	0.5	11	8	60 - 140	139
		Dichlorvos	µg/L	0.5	10	8	60 - 140	131
		Ethion	µg/L	0.2	7.8	8	60 - 140	97
	05-SVCH (Cl Benzenes,	Hexachlorobenzene (HCB)	µg/L	0.1	4.3	4	60 - 140	107
		Hexachlorobutadiene	µg/L	0.5	4.4	4	60 - 140	110
		Hexachloroethane	µg/L	0.5	3.8	4	60 - 140	96
		Pentachlorobenzene	µg/L	0.5	4.2	4	60 - 140	104
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	4.1	4	60 - 140	104
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10	8	60 - 140	110
		Butyl benzyl phthalate	µg/L	1	7	8	60 - 140	86
		Di-n-butyl phthalate	µg/L	10	<10	8	60 - 140	97
		Diethyl phthalate	µg/L	5	9	8	60 - 140	112
		Dimethyl phthalate	µg/L	1	8	8	60 - 140	97
		Di-n-octyl phthalate	µg/L	1	8	8	60 - 140	102
	09-Nitrosamine	N-nitroso-di-n-propylamine (NDPA)	µg/L	1	29	32	60 - 140	90
	10-Nitroaromat	Pentachloronitrobenzene (quintozene)	µg/L	1	4	4	60 - 140	105
	14-Speciati ed Routine	2,4-dichlorophenol	µg/L	0.5	40	40	60 - 140	100
		Phenol	µg/L	0.5	45	40	60 - 140	113
2,4,6-trichlorophenol		µg/L	0.5	56	40	60 - 140	139	
Pentachlorophenol		µg/L	0.5	52	40	60 - 140	131	
Surrogates	d5-phenol (Surrogate)	µg/L	-	2.2	2	40 - 130	109	
	d5-nitrobenzene (Surrogate)	µg/L	-	0.57	0.5	40 - 130	114	
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.58	0.5	40 - 130	116	
	2,4,6-Tribromophenol (Surrogate)	µg/L	-	6.2	5	40 - 130	124	
	d14-p-terphenyl (Surrogate)	µg/L	-	0.52	0.5	40 - 130	104	

OC Pesticides in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356442.002	Delta BHC	µg/L	0.1	0.1	0.2	60 - 140	73
	Heptachlor	µg/L	0.1	0.1	0.2	60 - 140	73
	Aldrin	µg/L	0.1	0.1	0.2	60 - 140	74
	Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	78
	Endrin	µg/L	0.1	0.2	0.2	60 - 140	78
	p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	82
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.18	0.15	40 - 130

OP Pesticides in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356442.002	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	9.1	8	60 - 140	113
	Diazinon (Dimpylate)	µg/L	0.5	9.5	8	60 - 140	118
	Dichlorvos	µg/L	0.5	9.2	8	60 - 140	114
	Ethion	µg/L	0.2	9.1	8	60 - 140	113
Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.41	0.5	40 - 130	82
	d14-p-terphenyl (Surrogate)	µg/L	-	0.38	0.5	40 - 130	76

PCBs in Water

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

Sample Number	Parameter	Units	LOR



LABORATORY CONTROL SAMPLES

SE286801B R0

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.

PCBs in Water (continued)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356442.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	103

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356404.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.17	0.2	40 - 160	85
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.18	0.2	40 - 160	91
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.21	0.2	40 - 160	103
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.31	0.2	40 - 160	156
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.21	0.2	40 - 160	103
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.22	0.2	40 - 160	112
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.18	0.2	40 - 160	89
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.19	0.2	40 - 160	93

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356714.002	Total Phenols	mg/L	0.05	0.21	0.2	80 - 120	103

VOCs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB356456.002	Halogenated	1,1-dichloroethene	µg/L	0.5	61	45.45	133
		1,2-dichloroethane	µg/L	0.5	52	45.45	115
	Aliphatics	Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	55	45.45	122
		Chlorobenzene	µg/L	0.5	43	45.45	94
	Monocyclic	Benzene	µg/L	0.5	27	25	110
	Aromatic	Toluene	µg/L	0.5	26	25	104
		Ethylbenzene	µg/L	0.5	25	25	101
		m/p-xylene	µg/L	1	51	50	101
		o-xylene	µg/L	0.5	25	25	102
	Trihalomethan	Chloroform (THM)	µg/L	0.5	62	45.45	136



MATRIX SPIKES

SE286801B R0

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE286801B.001	LB356714.004	Total Phenols	mg/L	0.05	0.20	<0.05	0.2	102

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE287100.001	LB356456.025	Monocyclic	Benzene	µg/L	0.5	27	<0.5	25	106
			Aromatic	Toluene	µg/L	0.5	27	<0.5	25
		Ethylbenzene		µg/L	0.5	26	<0.5	25	104
		m/p-xylene		µg/L	1	51	<1	50	102
		o-xylene		µg/L	0.5	26	<0.5	25	102
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	9.0	-	88
			d8-toluene (Surrogate)	µg/L	-	10.2	8.9	-	102
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.1	-	103
		Totals	Total BTEX	µg/L	3	160	<3	-	-



MATRIX SPIKE DUPLICATES

SE286801B R0

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

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the

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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