

4 May 2022
File No. E25649.E03_Rev0

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RE: Additional Investigation & Remedial Works Plan, Stage 1, Griffith Base Hospital, 1 Noorebar Avenue, Griffith NSW

INTRODUCTION

EI Australia (EI) was requested by Moits to outline the findings of the additional investigation conducted at various former building footprints following demolition within the Stage 1 area (the subject site) at Griffith Base Hospital, 1 Noorebar Avenue, Griffith NSW.

The total area of the property is approximately 64,000m² and is occupied by several hospital buildings. The proposed for a multi-stage redevelopment which will involve the progressive demolition of the existing hospital buildings, followed by construction of a new main hospital building, several ancillary services building and associated car parking area. The area of the subject site for this stage of works is shown in **Figure 2**.

In accordance with Remediation Action Plan (RAP) prepared for the site (JK, dated 25 April 2020, ref. E30991BTrpt3Rev2), additional soil sampling is required underneath the existing buildings following demolition for characterisation and waste classification purposes. The RAP also outlined asbestos impacted fill at former GHD sampling location TP124 and multiple underground storage tanks (USTs) requiring remediation and subsequent validation. These areas are outside of the proposed works for this stage of works, as shown in **Attachment A - Figure 2**.

The RAP identified that the foot prints of existing buildings had not been investigated and that this was a data gap. Investigation of footprints was required.

The purpose of this document is to outline the findings of the additional investigation at former building footprints during this stage of works (Stage 1), as shown in **Figure 2**, and provides a brief Remedial Works Plan to outline the remedial and validation requirements in accordance with the RAP (JK, 2020). It should be noted that two buildings remain and are yet to be demolished within Stage 1 of works and the footprints will be investigated following demolition.

SCOPE OF WORKS

Works carried out during this phase of works, in accordance with the RAP (JK, 2020), are as follows:

- A detailed walkover inspection was conducted by Emmanuel Woelders (EI - Senior Environmental Scientist) to determine the presence of any hazardous material (including ACM) on the site surface in vicinity of the former building footprints, as shown in **Figure 2**.
- Where potential ACM (cement sheet fragments) on site surface were observed representative fragments were collected for asbestos identification analysis at NATA accredited SGS, Alexandria NSW.
- In-situ fill samples were collected from 22 test pit locations (as required by the RAP (JK 2020)) using a client provided excavator and operator. Test pits generally extended to 0.5m into natural soils or prior refusal on bedrock. Fill samples were generally collected near surface (0.1m BGL), then every 0.5m or every change in profile. Fill samples were collected from the walls and/or base of the test pits using dedicated unused nitrile gloves and placed into 250g laboratory prepared glass jars, which were capped using Teflon-sealed, screw

caps and immediately chilled prior to being delivered to the contract environmental laboratory (NATA accredited SGS, Alexandria NSW) under strict Chain-of-Custody conditions.

- In addition, and in accordance with NEPM (2013), 10L fill samples were collected using a 10L bucket at each sampling location. The soil was then spread on a 1m by 1m plastic sheet of contrasting colour and inspected for visible cement sheet fragments. During these works no visible cement sheet fragments identified, however should visible cement sheet fragments were to be identified, the fragments would have been picked out and placed into a sample bag, weighed and sent to laboratory for asbestos identification analysis. A representative 500g sample was collected for asbestos quantification analysis.
- Fill samples were screened for volatile organic compounds on-site using a Photoionization Detector (PID).
- Fill samples were analysed at a NATA accredited laboratory and analysed for Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), TRH/BTEX, PAHs, OCPs, OPPs, PCBs and asbestos quantification (500g analysis).
- Inter and intra laboratory duplicates will be collected and analysed at a sampling rate of 1 per 20 samples. Laboratory prepared Trip Blank / Spike Samples accompanied the samples and was analysed for BTEX for each sampling event.
- Analytical results were assessed against NEPM (2013) human health criteria (HILs/HSLs A) and ecological criteria (EILs/ESLs Residential) specified in the RAP.
- Soil results were also assessed against the Waste Classification Guidelines (EPA, 2014) and waste classification reports.
- Preparation of a letter style report and remedial works plan referencing the RAP.

FINDINGS OF FIELD INVESTIGATION

On the 27 April 2022, EI attended site and identified three former buildings had been demolished and in addition a building located to the south had been partly demolished, as shown in figure 2.

A detailed inspection was carried out on the site surface in vicinity of former building footprints by means of a slow gridded traverse across the area from a normal upright eye height. Multiple cement sheet fragments were visually identified scattered across the area of the former buildings (refer to **Attachment B – Site Photographs**).

Representative cement sheet fragment samples were collected for asbestos identification analysis and were found to contain Chrysotile Asbestos. The ACM was non-pulverisable by hand and further laboratory testing confirmed asbestos was present in cement sheet fragments, and is considered bonded in accordance with SafeWork NSW 2019 Code of Practice - How to Safely Remove Asbestos.

Sampling of fill soils were collected from 22 test pits locations, as illustrated in **Attachment A - Figure 2**. Anthropogenic fill material consisting of gravel, silt and sand was observed to be present to a maximum depth of 0.7m and was underlain by natural clay and siltstone bedrock. No odours or staining was observed.. Detailed test pit logs are presented in **Attachment C**.

Samples were submitted to SGS, a NATA accredited laboratory, and were analysed for the contaminants of concern. Analytical Results Laboratory results were assessed against the adopted human health and ecological criteria specified in the RAP (JK, 2020) and the Waste Classification Guidelines (EPA, 2014) (**Attachment D Summary of Results**). Laboratory documentation (including reports) is attached in **Attachment E**.

The key findings of the in-situ test pit sampling were:

- No visible cement sheet fragments were identified within the 10L sample collected during asbestos sampling in test pits.

- Based on the asbestos quantification analysis results, asbestos in fill was identified at four of the 22 sampling locations. These were:
 - TP1 @ 0.1-0.2 with a total fill depth being 0.2m BGL. The asbestos was identified in cement sheet fragments and is considered BONDED.
 - TP2 @ 0.1-0.2 with a total fill depth being 0.2m BGL. The asbestos was identified in loose fibre bundles and spongy fibrous material and is considered FRIABLE.
 - TP3 @ 0.2-0.3 with a total fill depth of 0.4m BGL. The asbestos was identified in cement sheet fragments and is considered BONDED.
 - TP17 @ 0.1-0.2 with a total fill depth of 0.2m BGL. The asbestos was identified in cement sheet fragments and is considered BONDED.
- No other tested contaminants were reported above the adopted site suitability criteria.
- Surface fill soils and in-situ fill at TP1, TP2, TP3 and TP17 is classified as **General Solid Waste (non-putrescible) / Special Waste (Asbestos)** in accordance with the Waste Classification Guidelines (EPA, 2014).

Note: The location of TP1, TP2 and TP3 are within the footprint of the northern building. The location of TP17 is at the southwest corner of the southern building footprint. Asbestos was not encountered at areas outside of the building footprints. This suggests that the asbestos encountered during this additional investigation is a result of demolition of the buildings and some work-in to level the demolition area. It is unlikely that the asbestos is a broadly distributed foreign material in fill at the subject site.

REMEDIAL WORKS PLAN

In addition with the Unexpected Finds Protocol presented in the RAP (JK, 2020), EI provide the following recommendations to the remediate and validate the identified contamination. These recommendations complement the RAP (JK 2020):

- Under Class A Conditions in accordance SafeWork NSW requirements, the suitably licensed contractor will remedially excavate asbestos impacted fill in vicinity of TP1, TP2 & TP3 (at the extent shown in the **Figure 2**) to the depth of natural soils (ranging between 0.2-0.4m BGL) and dispose of the soil as **General Solid Waste / Special Waste (Asbestos)**.
- Under Class B Conditions under SafeWork NSW requirements, the suitably licensed contractor will remedially excavate asbestos impacted fill in vicinity of TP17 (at the extent shown in the **Figure 2**) to the depth of natural soils (0.2m) and dispose of the soil as General Solid Waste / Asbestos Waste **General Solid Waste / Special Waste (Asbestos)**.
- EI's Licensed Asbestos Assessor will visually inspect and collect samples from the walls and bases of the resulting remedial pits at TP1, TP2, TP3 and TP17 in accordance with NEPM (2013) for asbestos quantification analysis following remedial excavations. Samples from the walls will be collected at a sampling density of 1 sample every 5m, and base samples will be collected at a sampling density of 1 sample per 25m².
- Should analytical results indicate the presence of asbestos above the adopted site suitability criteria specified in the RAP (JK, 2020), additional chase out excavation and subsequent excavation will be carried out under the supervision of EI.
- Under Class B Conditions under SafeWork NSW requirements, the suitably licensed contractor will remedially excavate surface soils across the areas (at the extent shown in the **Figure 2**) to the depth of natural soils (0.1m) and dispose of the soil as **General Solid Waste / Special Waste (Asbestos)**.

- Following the surface scrape EI's Licensed Asbestos Assessor will inspect the remaining soil surface by means of slow traverse across the area from a normal upright eye position, to ensure no visual asbestos fragments is identified. When satisfied with that the area is free of asbestos, a clearance certificate will be issued.
- Asbestos Air Monitoring must be carried out during remedial excavation.

Once Stage 1 works have been completed, the findings of the above works will be reported in both an Asbestos Clearance Certificate and a Site Validation Report in accordance with the requirements specified in the RAP (JK, 2020).

Should you require any further information regarding the above please do not hesitate to contact the undersigned.

For and on behalf of

EI Australia

EMMANUEL WOELDERS
Senior Environmental Scientist

GREG BRICKLE
Principal Environmental Scientist

Attached

Attachment A – Figures

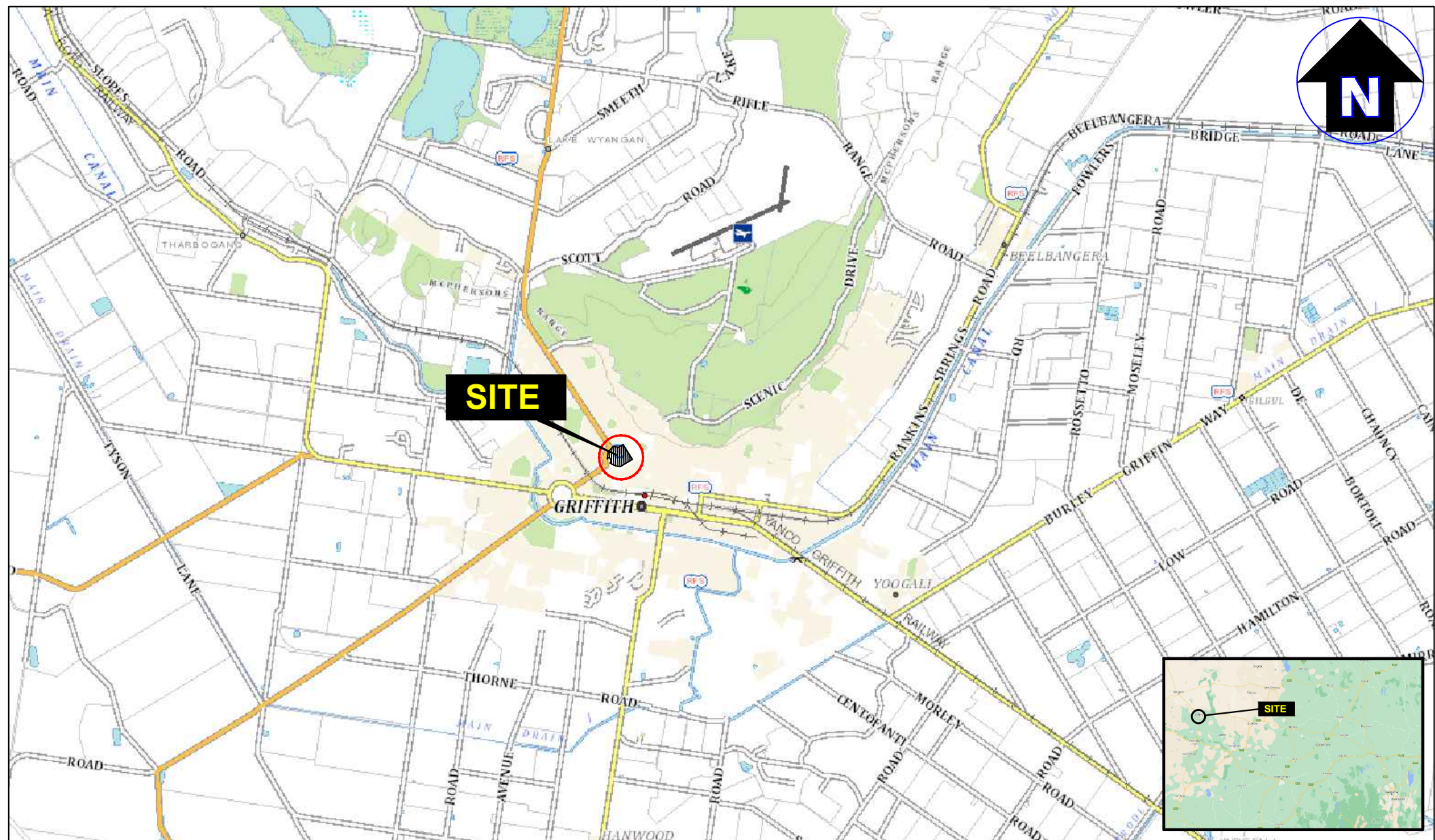
Attachment B – Site Photographs

Attachment C – Test Pit Logs

Attachment D – Summary of Laboratory Results

Attachment E – Laboratory Documentation

Attachment A – Figures



Drawn:	A.N.
Approved:	S.L.
Date:	04-05-22
Scale:	Not To Scale



LEGEND (Note: All locations are approximate)

- | | | | |
|--|-----------------------------------|--|---|
| | Site boundary | | Building footprints |
| | Area of stage 1 development | | Asbestos remediation zone as identified in RAP (JK, 2020) |
| | Test pit location | | UST remediation zone as identified in RAP (JK, 2020) |
| | Asbestos In Soil Remediation Zone | | |
| | Proposed surface scrape area | | |



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Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:

A.N.

Approved:

S.L.

Date:

4-5-22

Moits Pty Ltd
Additional Investigation & Remedial Works Plan
1 Noorebar Avenue, Griffith NSW
Test Pit Location Plan

Figure:

2

Project:
E25649.E03.001_Rev0

Attachment B – Site Photographs



Photograph 1: View of representative ACM fragments scattered on site surface.



Photograph 2: View of general site conditions, looking north east.



Photograph 3: View of general site conditions, looking south.



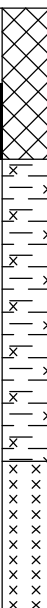
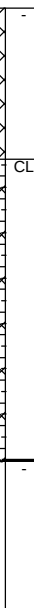
Photograph 4: View of general site conditions, looking north west.

Attachment C – Test Pit Logs

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine St Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP1 0.1-0.2 QD1/ QT1 0.10-0.20 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.20									
			0.60					Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.80					SILTSTONE; grey, with iron stain, no odour.				
									Hole Terminated at 0.80 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

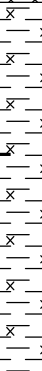
Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E		GWNE	0.0		TP2_ 0.1-0.2 0.10-0.20 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.20				SILTSTONE; grey, with iron stain, no odour.	NATURAL				
			0.50				Hole Terminated at 0.50 m Target depth reached					
			1.0									
			1.5									
			2.0									

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Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
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 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
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 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

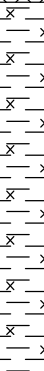
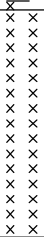
Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP3_0.2-0.3 0.20-0.30 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.40					CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.			NATURAL
						0.5		TP3_0.5-0.6 0.50-0.60 m PID<1ppm				
			0.90						Hole Terminated at 0.90 m Target depth reached			
			1.0									
			1.5									
			2.0									

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Contractor -
 Machine St Excavator
 Bucket Size

Sheet 1 OF 1
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 Checked EW

Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP4_0.1-0.2 0.10-0.20 m PID<1ppm TP4_0.5-0.6 0.50-0.60 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.20				CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.5									
			0.70				-	SILTSTONE; grey, with iron stain, no odour.				
			1.0	1.00					Hole Terminated at 1.00 m Refusal on bedrock			
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine St Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

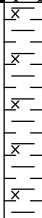
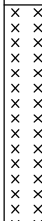
Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP5_0.2-0.3 0.20-0.30 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.40					CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.			NATURAL
			0.80					-	SILTSTONE; grey, with iron stain, no odour.			
			0.90					-	Hole Terminated at 0.90 m Refusal on bedrock			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation				Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP6_0.2-0.4 0.20-0.40 m PID<1ppm		-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.40			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.70			-	SILTSTONE; grey, with iron stain, no odour.				
			1.00	Hole Terminated at 1.00 m Target depth reached							
			1.5								
			2.0								

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
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 Checked EW

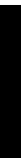
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0	0.40	TP7_0.2-0.4 0.20-0.40 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
							CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
							-	SILTSTONE; grey, with iron stain, no odour.				
			1.0				1.00					
			1.5									
			2.0									

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

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Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
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Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0		TP8_ 0.1-0.3 0.10-0.30 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.40	CL				Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.80	-				SILTSTONE; grey, with iron stain, no odour.				
			1.00					Hole Terminated at 1.00 m Target depth reached				
			1.5									
			2.0									

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 Bucket Size

TEST PIT: TP9

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

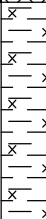
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP9_0.1-0.2 0.10-0.20 m PID<1ppm TP9_0.4-0.5 0.40-0.50 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.				NATURAL				
			0.5					-	SILTSTONE; grey, with iron stain, no odour.			
			0.60					Hole Terminated at 0.60 m Target depth reached				
			1.0									
			1.5									
			2.0									

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

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Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
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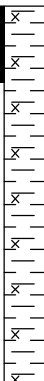
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP10_0.1-0.2 0.10-0.20 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.20				CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.50				-	SILTSTONE; grey, with iron stain, no odour.				
			0.60				Hole Terminated at 0.60 m Target depth reached					
			1.0									
			1.5									
			2.0									

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Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0		TP12_0.0-0.1 0.00-0.10 m PID<1ppm			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0		TP13_0.0-0.1 0.00-0.10 m PID<1ppm			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

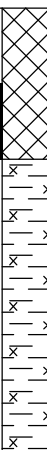
This borehole log should be read in conjunction with EI Australia's accompanying standard notes.

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

TEST PIT: TP14

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0	0.20	TP14_0.1-0.2 0.10-0.20 m PID<1ppm		-	CL	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.						NATURAL			
			0.5	0.60					Hole Terminated at 0.60 m Target depth reached			
			1.0									
			1.5									
			2.0									

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



Project Waste Classification Certificate
Location 1 Noorebar Ave, Griffith NSW
Position Refer to Figure 2
Job No. E25649.E05
Client Moits Pty Ltd

Contractor -
Machine 5t Excavator
Bucket Size

TEST PIT: TP15

Sheet 1 OF 1
Date 27/4/22
Logged EW
Checked EW

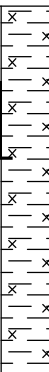
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP15 0.1-0.2 0.10-0.20 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			0.20					CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.			NATURAL
			0.5									
			0.60									
									Hole Terminated at 0.60 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

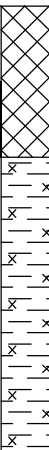
Excavation					Sampling		Field Material Description					
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP16_0.1-0.2 QD2/ QT2 0.10-0.20 m PID<1ppm			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation					Sampling		Field Material Description				
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP17_0.1-0.2 0.10-0.20 m PID<1ppm		-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.			FILL
			0.20				CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5								
			0.60					Hole Terminated at 0.60 m Target depth reached			
			1.0								
			1.5								
			2.0								

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine St Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

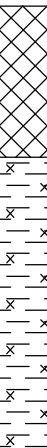
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0	0.20	TP18_0-0.1 0.00-0.10 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.						NATURAL			
			0.50						Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

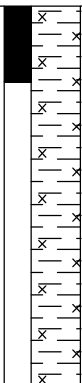
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0	0.20	TP19_0.1-0.2 0.10-0.20 m PID<1ppm			-	FILL: Gravelly SILT; brown and orange, with fine to coarse grained and angular gravels, no odour.	M	-	FILL
			CL					Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	NATURAL			
			0.5	0.60					Hole Terminated at 0.60 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

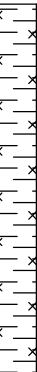
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0		TP20_0.0-0.1 0.00-0.10 m PID<1ppm		CL		Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

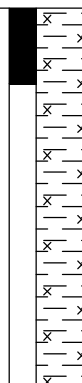
Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0		TP21_ 0.0-0.1 0.00-0.10 m PID<1ppm			CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Project Waste Classification Certificate
 Location 1 Noorebar Ave, Griffith NSW
 Position Refer to Figure 2
 Job No. E25649.E05
 Client Moits Pty Ltd

Contractor -
 Machine 5t Excavator
 Bucket Size

Sheet 1 OF 1
 Date 27/4/22
 Logged EW
 Checked EW

Excavation				Sampling		Field Material Description						
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	.	GWNE	0.0		TP22_ 0.0-0.1 0.00-0.10 m PID<1ppm		CL	Silty CLAY; low plasticity, red to brown, with ironstone gravels, no odour.	M	-	NATURAL	
			0.5	0.50					Hole Terminated at 0.50 m Target depth reached			
			1.0									
			1.5									
			2.0									

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

Attachment D – Summary of Laboratory Results

Table T1 – Summary of Soil Test Results

Sample ID	Sampling Date	Metals								PAHs				BTEX				TRHs						Pesticides				Total PCBs	Asbestos									
		As	Cd	Cr ⁶	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as B[a]P TEQ)	Benzo(a)pyrene	Total PAHs	Naphthalene	Benzene	Toluene	Ethylbenzene	Total Xylenes	F1	F2	F3	F4	C6-C9	C10-C36	OCPs			OPPs		Presence / absence	Bonded Asbestos % w/w	Friable / Asbestos Fines % w/w	Bonded or Friable						
																								Aldrin & Dieldrin	DDT + DDE + DDD	Other OCP												
Asb1	14/02/2022	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.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	Yes	N.A.	N.A.	Bonded							
TP1_0.1-0.2		4	1.1	18	42	140	0.37	10	410	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	0.2	<0.2	ND	<1.7	<1	Yes	0.2	<0.001	Bonded						
TP2_0.1-0.2		3	<0.3	11	4.3	6	<0.05	12	23	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	Yes	<0.01	0.005	FRIABLE						
TP3_0.2-0.3		2	<0.3	13	6.9	12	0.08	4.5	100	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	Yes	<0.01	0.011	Bonded						
TP4_0.1-0.2		3	<0.3	17	10	13	<0.05	27	30	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	0.2	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP5_0.2-0.3		3	<0.3	17	4.9	7	<0.05	6	8.6	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP6_0.2-0.4		2	<0.3	15	9	11	<0.05	17	48	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	6.2	0.6	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP7_0.2-0.4		2	<0.3	15	15	25	<0.05	8.6	61	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP8_0.1-0.3		2	<0.3	14	6.5	10	<0.05	11	20	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP9_0.1-0.2		1	<0.3	15	2.6	4	<0.05	2.2	5.2	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP10_0.1-0.2		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.	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.	No	<0.01	<0.001	Bonded						
TP11_0.1-0.3		4	<0.3	24	28	19	<0.05	120	59	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP12_0-0.1		2	<0.3	17	4.1	6	0.06	4.5	8.7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP13_0-0.1		4	<0.3	23	7.8	9	<0.05	6.3	8.3	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP14_0.1-0.2		2	<0.3	16	29	18	<0.05	4.9	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP15_0.1-0.2		1	<0.3	16	1.5	4	<0.05	1.6	3.4	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP16_0-0.1		2	<0.3	16	3.9	11	0.22	3.5	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP17_0.1-0.2		2	<0.3	16	8.2	19	0.07	4.8	55	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	Yes	<0.01	0.017	Bonded						
TP18_0-0.1		2	<0.3	15	2.7	4	<0.05	2.5	4.5	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP19_0.1-0.2		2	<0.3	11	1.3	3	<0.05	1.4	2.4	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP20_0-0.1		3	<0.3	23	5.9	9	<0.05	5.4	7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP21_0-0.1		4	<0.3	22	4.7	9	<0.05	4.3	6.4	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
TP22_0-0.1		2	<0.3	20	3.6	6	<0.05	4.3	5.7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.3	<25	<25	<90	<120	<20	<110	<0.1	<0.2	ND	<1.7	<1	No	<0.01	<0.001	Bonded						
NEPM (2013) Criteria																																						
HIL A - Residential with garden / accessible soil	100	20	100 Cr(VI)	6,000	300	40	400	7,400	3		300											6	240			1												
HSL A & B - Low to high density residential Soil texture classification – Clay	Source depths (0 m to <1 m. BGL)												5	0.7	480	NL	110	50	280																			
	Source depths (1 m to <2 m. BGL)												NL	1	NL	NL	310	90	NL																			
	Source depths (2 m to <4 m. BGL)												NL	2	NL	NL	NL	150	NL																			
	Source depths (4 m + BGL)												NL	3	NL	NL	NL	290	NL																			
EILs / ESLs Urban residential and public open space ^{1 2}	100		203	248	1,263		248	1,322		0.7		170	65	105	125	45	180	120	1,300	5,600		180																
NSW EPA (2014) Waste Classification Criteria																																						
General Solid Waste	CT1 (mg/kg)	100	20	100		100	4	40		0.8	200		10	288	600	1,000						650	10000	<50		250	<50	If detected material is Special Waste - Asbestos Waste										
	TCLP1 (mg/L) / SCC1 (mg/kg)	5 / 500	1 / 100	5 / 1,900		5 / 1,500	0.2 / 50	2 / 1,050		0.04 / 10	NR / 200		0.5 / 18	14.4 / 518	30 / 1,080	50 / 1,800						NR/650	NR/10000	NR / <50		NR / 250	NR / <50											
Restricted Solid Waste	CT2 (mg/kg)	400	80	400		400	16	160		3.2	800		40	1,152	2,400	4,000						2600	40000	NR		1,000	NR											
	TCLP2 (mg/L) / SCC2 (mg/kg)	20 / 2,000	4 / 400	20 / 7,600		20 / 6,000	0.8 / 200	8 / 4,200		0.16 / 23	NR / 800		2 / 72	57.6 / 2,073	120 / 4,320	200 / 7,200						NR/2600	NR/40000	NR / <50		NR / 1,000	NR / <50											
Special Waste / Scheduled Waste																																> 2 mg/kg - Scheduled Waste ³			> 2 mg/kg - PCB Waste ⁴			

Notes:

	Highlighted values exceed HIL / HSL
	Highlighted values exceed EILs and ESLs

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.
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.
#	Thresholds are for Chromium VI.
NA	Not analysed
NL	Not Limiting' If the derived soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical
NC	Not calculated
1	As strata is predominantly clay, fine grained soil assessment criteria values were applied.
2	Site Specific Criteria adopted from the RAP (JK,

Attachment D – Laboratory Documentation

CLIENT DETAILS

Contact Emmanuel Woelders
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email emmanuel.woelders@eiaustralia.com.au

Project **E25649 Griffith Base Hospital**
Order Number **E25649**
Samples 1

LABORATORY DETAILS

Manager Huong Crawford
Laboratory SGS Alexandria Environmental
Address Unit 16, 33 Maddox St
Alexandria NSW 2015

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

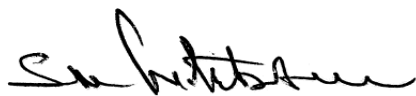
SGS Reference **SE231415 R0**
Date Received 28 Apr 2022
Date Reported 29 Apr 2022

COMMENTS

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

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Yusuf KUTHPUDIN
Asbestos Analyst



ANALYTICAL REPORT

SE231415 R0

RESULTS

Fibre ID in bulk materials

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE231415.001	Asb1	Other	113g Cement Sheet Fragments	27 Apr 2022	Chrysotile Asbestos Detected	

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be 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	AS4964.2004 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 limit 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."

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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SAMPLE RECEIPT ADVICE

SE231415

CLIENT DETAILS

Contact Emmanuel Woelders
Client EIAUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
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Email emmanuel.woelders@eiaustralia.com.au

Project **E25649 Griffith Base Hospital**
Order Number **E25649**
Samples 1

LABORATORY DETAILS

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Address Unit 16, 33 Maddox St
Alexandria NSW 2015

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

Samples Received Thu 28/4/2022
Report Due Fri 29/4/2022
SGS Reference **SE231415**

SUBMISSION DETAILS

This is to confirm that 1 sample was received on Thursday 28/4/2022. Results are expected to be ready by COB Friday 29/4/2022. Please quote SGS reference SE231415 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	1 Material
Date documentation received	28/4/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	N/A
Sample temperature upon receipt	13°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

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

SE231415

CLIENT DETAILS

Client EI AUSTRALIA

Project E25649 Griffith Base Hospital

SUMMARY OF ANALYSIS

		Fibre ID in bulk materials
No.	Sample ID	
001	Asb1	1

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

CLIENT DETAILS

Contact Emmanuel Woelders
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 61 2 95160722
 Facsimile (Not specified)
 Email emmanuel.woelders@eiaustralia.com.au

Project **E25649 Griffith Base Hospital**
 Order Number **E25649**
 Samples 22

LABORATORY DETAILS

Manager Huong Crawford
 Laboratory SGS Alexandria Environmental
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 Facsimile +61 2 8594 0499
 Email au.environmental.sydney@sgs.com

SGS Reference **SE231416 R0**
 Date Received 28/4/2022
 Date Reported 29/4/2022

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

Sample # 1 : Asbestos found in approx 35x20x4mm cement sheet fragment.

Sample # 2 : Asbestos found as approx 5-6 x 1mm loose fibre bundles x5 and found as approx 2x1x1mm spongy fibrous material.

Sample # 3 : Asbestos found in approx 6x4x2mm cement sheet fragment.

Sample # 17 : Asbestos found in approx 6x4x3mm cement sheet fragments x2.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



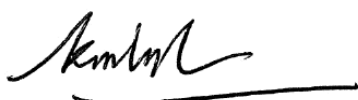
Bennet LO
 Senior Chemist



Dong LIANG
 Metals/Inorganics Team Leader



Huong CRAWFORD
 Production Manager



Ly Kim HA
 Organic Section Head



Teresa NGUYEN
 Organic Chemist



Yusuf KUTHPUDIN
 Asbestos Analyst

VOC's in Soil [AN433] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
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	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
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	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
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

VOC's in Soil [AN433] Tested: 28/4/2022 (continued)

			TP22_0-0.1
			SOIL
			-
			27/4/2022
PARAMETER	UOM	LOR	SE231416.022
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6
Naphthalene (VOC)	mg/kg	0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
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	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
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	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL
			-
			27/4/2022 SE231416.022
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL
			27/4/2022 SE231416.022
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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
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	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	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	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
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	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 28/4/2022 (continued)

			TP22_0-0.1
			SOIL
			-
			27/4/2022
PARAMETER	UOM	LOR	SE231416.022
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL - 27/4/2022 SE231416.001	SOIL - 27/4/2022 SE231416.002	SOIL - 27/4/2022 SE231416.003	SOIL - 27/4/2022 SE231416.004	SOIL - 27/4/2022 SE231416.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	0.2	<0.1	<0.1	0.2	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL - 27/4/2022 SE231416.006	SOIL - 27/4/2022 SE231416.007	SOIL - 27/4/2022 SE231416.008	SOIL - 27/4/2022 SE231416.009	SOIL - 27/4/2022 SE231416.011
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	4.5	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	0.6	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	0.3	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	0.3	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	1.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	7	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	7	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL - 27/4/2022 SE231416.012	SOIL - 27/4/2022 SE231416.013	SOIL - 27/4/2022 SE231416.014	SOIL - 27/4/2022 SE231416.015	SOIL - 27/4/2022 SE231416.016
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL - 27/4/2022 SE231416.017	SOIL - 27/4/2022 SE231416.018	SOIL - 27/4/2022 SE231416.019	SOIL - 27/4/2022 SE231416.020	SOIL - 27/4/2022 SE231416.021
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 28/4/2022 (continued)

			TP22_0-0.1
			SOIL
			-
			27/4/2022
PARAMETER	UOM	LOR	SE231416.022
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2
Endrin	mg/kg	0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1
Isodrin	mg/kg	0.1	<0.1
Mirex	mg/kg	0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1
Total OC VIC EPA	mg/kg	1	<1

OP Pesticides in Soil [AN420] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL - 27/4/2022 SE231416.017	SOIL - 27/4/2022 SE231416.018	SOIL - 27/4/2022 SE231416.019	SOIL - 27/4/2022 SE231416.020	SOIL - 27/4/2022 SE231416.021
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL - 27/4/2022 SE231416.022
Dichlorvos	mg/kg	0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2
Malathion	mg/kg	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2
Methidathion	mg/kg	0.5	<0.5
Ethion	mg/kg	0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7

PCBs in Soil [AN420] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 28/4/2022 (continued)

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL - 27/4/2022 SE231416.017	SOIL - 27/4/2022 SE231416.018	SOIL - 27/4/2022 SE231416.019	SOIL - 27/4/2022 SE231416.020	SOIL - 27/4/2022 SE231416.021
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL - 27/4/2022 SE231416.022
Arochlor 1016	mg/kg	0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
Arsenic, As	mg/kg	1	4	3	2	3	3
Cadmium, Cd	mg/kg	0.3	1.1	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	18	11	13	17	17
Copper, Cu	mg/kg	0.5	42	4.3	6.9	10	4.9
Lead, Pb	mg/kg	1	140	6	12	13	7
Nickel, Ni	mg/kg	0.5	10	12	4.5	27	6.0
Zinc, Zn	mg/kg	2	410	23	100	30	8.6

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
Arsenic, As	mg/kg	1	2	2	2	1	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	15	15	14	15	24
Copper, Cu	mg/kg	0.5	9.0	15	6.5	2.6	28
Lead, Pb	mg/kg	1	11	25	10	4	19
Nickel, Ni	mg/kg	0.5	17	8.6	11	2.2	120
Zinc, Zn	mg/kg	2	48	61	20	5.2	59

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
Arsenic, As	mg/kg	1	2	4	2	1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	23	16	16	16
Copper, Cu	mg/kg	0.5	4.1	7.8	29	1.5	3.9
Lead, Pb	mg/kg	1	6	9	18	4	11
Nickel, Ni	mg/kg	0.5	4.5	6.3	4.9	1.6	3.5
Zinc, Zn	mg/kg	2	8.7	8.3	43	3.4	43

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
Arsenic, As	mg/kg	1	2	2	2	3	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	16	15	11	23	22
Copper, Cu	mg/kg	0.5	8.2	2.7	1.3	5.9	4.7
Lead, Pb	mg/kg	1	19	4	3	9	9
Nickel, Ni	mg/kg	0.5	4.8	2.5	1.4	5.4	4.3
Zinc, Zn	mg/kg	2	55	4.5	2.4	7.0	6.4

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 28/4/2022

			TP22_0-0.1
			SOIL
			-
			27/4/2022
			SE231416.022
PARAMETER	UOM	LOR	
Arsenic, As	mg/kg	1	2
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	20
Copper, Cu	mg/kg	0.5	3.6
Lead, Pb	mg/kg	1	6
Nickel, Ni	mg/kg	0.5	4.3
Zinc, Zn	mg/kg	2	5.7

Mercury in Soil [AN312] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022	27/4/2022	27/4/2022	27/4/2022	27/4/2022
			SE231416.001	SE231416.002	SE231416.003	SE231416.004	SE231416.005
Mercury	mg/kg	0.05	0.37	<0.05	0.08	<0.05	<0.05

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022	27/4/2022	27/4/2022	27/4/2022	27/4/2022
			SE231416.006	SE231416.007	SE231416.008	SE231416.009	SE231416.011
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022	27/4/2022	27/4/2022	27/4/2022	27/4/2022
			SE231416.012	SE231416.013	SE231416.014	SE231416.015	SE231416.016
Mercury	mg/kg	0.05	0.06	<0.05	<0.05	<0.05	0.22

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022	27/4/2022	27/4/2022	27/4/2022	27/4/2022
			SE231416.017	SE231416.018	SE231416.019	SE231416.020	SE231416.021
Mercury	mg/kg	0.05	0.07	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL
			-
			27/4/2022
			SE231416.022
Mercury	mg/kg	0.05	<0.05

Moisture Content [AN002] Tested: 28/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
% Moisture	%w/w	1	17.4	7.9	8.8	9.3	12.0

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP11_0.1-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.011
% Moisture	%w/w	1	14.6	12.6	10.3	6.2	9.8

PARAMETER	UOM	LOR	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2	TP16_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015	27/4/2022 SE231416.016
% Moisture	%w/w	1	5.4	16.8	8.2	6.9	6.5

PARAMETER	UOM	LOR	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1	TP21_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020	27/4/2022 SE231416.021
% Moisture	%w/w	1	8.1	6.4	8.7	16.1	16.4

PARAMETER	UOM	LOR	TP22_0-0.1
			SOIL
			-
			27/4/2022 SE231416.022
% Moisture	%w/w	1	12.2

Fibre Identification in soil [AN602] Tested: 29/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
Asbestos Detected	No unit	-	Yes	No	Yes	No	No
Estimated Fibres*	%w/w	0.01	>0.01	<0.01	>0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP10_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.010
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP11_0.1-0.3	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.011	27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP16_0-0.1	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			27/4/2022 SE231416.016	27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020
Asbestos Detected	No unit	-	No	Yes	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	>0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	TP21_0-0.1	TP22_0-0.1
			SOIL	SOIL
			-	-
			27/4/2022 SE231416.021	27/4/2022 SE231416.022
Asbestos Detected	No unit	-	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 29/4/2022

PARAMETER	UOM	LOR	TP1_0.1-0.2	TP2_0.1-0.2	TP3_0.2-0.3	TP4_0.1-0.2	TP5_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.001	27/4/2022 SE231416.002	27/4/2022 SE231416.003	27/4/2022 SE231416.004	27/4/2022 SE231416.005
Total Sample Weight*	g	1	589	726	733	643	654
Bonded ACM in >7mm Sample*	g	0.001	7.77	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	0.0370	0.0775	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	0.20	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	0.005	0.011	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	0.005	0.011	<0.001	<0.001
Fibre Type*	No unit	-	Chrysotile	Chrysotile, Amosite	Chrysotile	NAD	NAD

PARAMETER	UOM	LOR	TP6_0.2-0.4	TP7_0.2-0.4	TP8_0.1-0.3	TP9_0.1-0.2	TP10_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.006	27/4/2022 SE231416.007	27/4/2022 SE231416.008	27/4/2022 SE231416.009	27/4/2022 SE231416.010
Total Sample Weight*	g	1	693	697	681	687	761
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP11_0.1-0.3	TP12_0-0.1	TP13_0-0.1	TP14_0.1-0.2	TP15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.011	27/4/2022 SE231416.012	27/4/2022 SE231416.013	27/4/2022 SE231416.014	27/4/2022 SE231416.015
Total Sample Weight*	g	1	744	655	505	737	579
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	TP16_0-0.1	TP17_0.1-0.2	TP18_0-0.1	TP19_0.1-0.2	TP20_0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			27/4/2022 SE231416.016	27/4/2022 SE231416.017	27/4/2022 SE231416.018	27/4/2022 SE231416.019	27/4/2022 SE231416.020
Total Sample Weight*	g	1	676	602	625	733	444
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	0.103	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	0.017	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	0.017	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	Chrysotile, Crocidolite	NAD	NAD	NAD

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 29/4/2022 (continued)

PARAMETER	UOM	LOR	TP21_0-0.1	TP22_0-0.1
			SOIL - 27/4/2022 SE231416.021	SOIL - 27/4/2022 SE231416.022
Total Sample Weight*	g	1	434	525
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be 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	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (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.
AN605	This technique gravimetrically determines the mass of Bonded Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. Any fibrous asbestos (FA) found in this fraction will be added to the 2-7mm fraction and its mass recorded there.

AN605

This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free/respirable fibres which are only observed by standard trace analysis as per AN602.

AN605

Bonded asbestos containing material (Bonded ACM) comprises asbestos-containing-material which is sound in condition.
Fibrous asbestos (FA) comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material.
Asbestos fines (AF) includes free fibres, small fibre bundles and also small fragments of bonded ACM that passes through a 7mm sieve - which implies that the bonded ACM fragments have a substantial degree of damage which increases the potential for fibre release.

AN-605

Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009 and NEPM 1999 (2013) schedule B1 section 4..

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
		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.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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STATEMENT OF QA/QC PERFORMANCE

SE231416 R0

CLIENT DETAILS

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Project **E25649 Griffith Base Hospital**
Order Number **E25649**
Samples 22

LABORATORY DETAILS

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SGS Reference **SE231416 R0**
Date Received 28 Apr 2022
Date Reported 29 Apr 2022

COMMENTS

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

The data relating to sampling was taken from the Chain of Custody document.

This QA/QC Statement must be read in conjunction with the referenced Analytical Report.

The Statement and the Analytical Report must not be reproduced except in full.

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

Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	OC Pesticides in Soil	2 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	22 Soil
Date documentation received	28/4/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	13°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

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)-ENVJAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP10_0.1-0.2	SE231416.010	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247446	27 Apr 2022	28 Apr 2022	27 Apr 2023	29 Apr 2022	27 Apr 2023	29 Apr 2022

Gravimetric Determination of Asbestos in Soil

Method: ME-(AU)-ENVJAN605

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP10_0.1-0.2	SE231416.010	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247446	27 Apr 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022	24 Oct 2022	29 Apr 2022

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil (continued)

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP13_0-0.1	SE231416.013	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247379	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247389	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247389	27 Apr 2022	28 Apr 2022	25 May 2022	28 Apr 2022	25 May 2022	29 Apr 2022

Moisture Content

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247370	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	03 May 2022	29 Apr 2022

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN4020

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN4020

Sample Name	Sample No.	QC Ref
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SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP12_0.0-0.1	SE231416.012	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP13_0.0-0.1	SE231416.013	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP16_0.0-0.1	SE231416.016	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP18_0.0-0.1	SE231416.018	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP20_0.0-0.1	SE231416.020	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP21_0.0-0.1	SE231416.021	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP22_0.0-0.1	SE231416.022	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP12_0.0-0.1	SE231416.012	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP13_0.0-0.1	SE231416.013	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP16_0.0-0.1	SE231416.016	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP18_0.0-0.1	SE231416.018	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP20_0.0-0.1	SE231416.020	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP21_0.0-0.1	SE231416.021	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP22_0.0-0.1	SE231416.022	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP12_0.0-0.1	SE231416.012	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP13_0.0-0.1	SE231416.013	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022



HOLDING TIME SUMMARY

SE231416 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP15_0.1-0.2	SE231416.015	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022

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

Method: ME-(AU)-ENVJAN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247380	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247386	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247386	27 Apr 2022	28 Apr 2022	24 Oct 2022	28 Apr 2022	24 Oct 2022	29 Apr 2022

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247368	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	07 Jun 2022	29 Apr 2022

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP3_0.2-0.3	SE231416.003	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1_0.1-0.2	SE231416.001	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP2_0.1-0.2	SE231416.002	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP3_0.2-0.3	SE231416.003	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP4_0.1-0.2	SE231416.004	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP5_0.2-0.3	SE231416.005	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP6_0.2-0.4	SE231416.006	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP7_0.2-0.4	SE231416.007	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP8_0.1-0.3	SE231416.008	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP9_0.1-0.2	SE231416.009	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP11_0.1-0.3	SE231416.011	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP12_0-0.1	SE231416.012	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP13_0-0.1	SE231416.013	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP14_0.1-0.2	SE231416.014	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP15_0.1-0.2	SE231416.015	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP16_0-0.1	SE231416.016	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP17_0.1-0.2	SE231416.017	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP18_0-0.1	SE231416.018	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP19_0.1-0.2	SE231416.019	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP20_0-0.1	SE231416.020	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP21_0-0.1	SE231416.021	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022
TP22_0-0.1	SE231416.022	LB247367	27 Apr 2022	28 Apr 2022	11 May 2022	28 Apr 2022	11 May 2022	29 Apr 2022

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

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

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	117
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	110
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	111
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	113
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	116
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	114
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	115
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	112
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	110
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	114
	TP12_0.0-0.1	SE231416.012	%	60 - 130%	111
	TP13_0.0-0.1	SE231416.013	%	60 - 130%	109
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	109
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	113
	TP16_0.0-0.1	SE231416.016	%	60 - 130%	110
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	109
	TP18_0.0-0.1	SE231416.018	%	60 - 130%	111
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	108
	TP20_0.0-0.1	SE231416.020	%	60 - 130%	110
	TP21_0.0-0.1	SE231416.021	%	60 - 130%	109
	TP22_0.0-0.1	SE231416.022	%	60 - 130%	110

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	92
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	96
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	94
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	92
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	92
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	94
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	92
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	94
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	94
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	92
	TP12_0.0-0.1	SE231416.012	%	60 - 130%	90
	TP13_0.0-0.1	SE231416.013	%	60 - 130%	92
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	90
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	92
	TP16_0.0-0.1	SE231416.016	%	60 - 130%	94
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	92
	TP18_0.0-0.1	SE231416.018	%	60 - 130%	94
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	94
	TP20_0.0-0.1	SE231416.020	%	60 - 130%	94
	TP21_0.0-0.1	SE231416.021	%	60 - 130%	96
	TP22_0.0-0.1	SE231416.022	%	60 - 130%	94
d14-p-terphenyl (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	90
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	94
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	92
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	90
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	90
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	90
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	90
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	92
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	92
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	90
	TP12_0.0-0.1	SE231416.012	%	60 - 130%	88
	TP13_0.0-0.1	SE231416.013	%	60 - 130%	90
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	90
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	88
	TP16_0.0-0.1	SE231416.016	%	60 - 130%	92
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	92

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

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

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	TP18_0-0.1	SE231416.018	%	60 - 130%	92
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	92
	TP20_0-0.1	SE231416.020	%	60 - 130%	94
	TP21_0-0.1	SE231416.021	%	60 - 130%	94
	TP22_0-0.1	SE231416.022	%	60 - 130%	90

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP1_0.1-0.2	SE231416.001	%	70 - 130%	92
	TP2_0.1-0.2	SE231416.002	%	70 - 130%	96
	TP3_0.2-0.3	SE231416.003	%	70 - 130%	94
	TP4_0.1-0.2	SE231416.004	%	70 - 130%	92
	TP5_0.2-0.3	SE231416.005	%	70 - 130%	92
	TP6_0.2-0.4	SE231416.006	%	70 - 130%	94
	TP7_0.2-0.4	SE231416.007	%	70 - 130%	92
	TP8_0.1-0.3	SE231416.008	%	70 - 130%	94
	TP9_0.1-0.2	SE231416.009	%	70 - 130%	94
	TP11_0.1-0.3	SE231416.011	%	70 - 130%	92
	TP12_0-0.1	SE231416.012	%	70 - 130%	90
	TP13_0-0.1	SE231416.013	%	70 - 130%	92
	TP14_0.1-0.2	SE231416.014	%	70 - 130%	90
	TP15_0.1-0.2	SE231416.015	%	70 - 130%	92
	TP16_0-0.1	SE231416.016	%	70 - 130%	94
	TP17_0.1-0.2	SE231416.017	%	70 - 130%	92
	TP18_0-0.1	SE231416.018	%	70 - 130%	94
	TP19_0.1-0.2	SE231416.019	%	70 - 130%	94
	TP20_0-0.1	SE231416.020	%	70 - 130%	94
	TP21_0-0.1	SE231416.021	%	70 - 130%	96
	TP22_0-0.1	SE231416.022	%	70 - 130%	94
d14-p-terphenyl (Surrogate)	TP1_0.1-0.2	SE231416.001	%	70 - 130%	90
	TP2_0.1-0.2	SE231416.002	%	70 - 130%	94
	TP3_0.2-0.3	SE231416.003	%	70 - 130%	92
	TP4_0.1-0.2	SE231416.004	%	70 - 130%	90
	TP5_0.2-0.3	SE231416.005	%	70 - 130%	90
	TP6_0.2-0.4	SE231416.006	%	70 - 130%	90
	TP7_0.2-0.4	SE231416.007	%	70 - 130%	90
	TP8_0.1-0.3	SE231416.008	%	70 - 130%	92
	TP9_0.1-0.2	SE231416.009	%	70 - 130%	92
	TP11_0.1-0.3	SE231416.011	%	70 - 130%	90
	TP12_0-0.1	SE231416.012	%	70 - 130%	88
	TP13_0-0.1	SE231416.013	%	70 - 130%	90
	TP14_0.1-0.2	SE231416.014	%	70 - 130%	90
	TP15_0.1-0.2	SE231416.015	%	70 - 130%	88
	TP16_0-0.1	SE231416.016	%	70 - 130%	92
	TP17_0.1-0.2	SE231416.017	%	70 - 130%	92
	TP18_0-0.1	SE231416.018	%	70 - 130%	92
	TP19_0.1-0.2	SE231416.019	%	70 - 130%	92
	TP20_0-0.1	SE231416.020	%	70 - 130%	94
	TP21_0-0.1	SE231416.021	%	70 - 130%	94
	TP22_0-0.1	SE231416.022	%	70 - 130%	90
d5-nitrobenzene (Surrogate)	TP1_0.1-0.2	SE231416.001	%	70 - 130%	92
	TP2_0.1-0.2	SE231416.002	%	70 - 130%	94
	TP3_0.2-0.3	SE231416.003	%	70 - 130%	94
	TP4_0.1-0.2	SE231416.004	%	70 - 130%	92
	TP5_0.2-0.3	SE231416.005	%	70 - 130%	92
	TP6_0.2-0.4	SE231416.006	%	70 - 130%	92
	TP7_0.2-0.4	SE231416.007	%	70 - 130%	92
	TP8_0.1-0.3	SE231416.008	%	70 - 130%	92
	TP9_0.1-0.2	SE231416.009	%	70 - 130%	94
	TP11_0.1-0.3	SE231416.011	%	70 - 130%	88
	TP12_0-0.1	SE231416.012	%	70 - 130%	88

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

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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 %
d5-nitrobenzene (Surrogate)	TP13_0.1-0.1	SE231416.013	%	70 - 130%	88
	TP14_0.1-0.2	SE231416.014	%	70 - 130%	86
	TP15_0.1-0.2	SE231416.015	%	70 - 130%	92
	TP16_0.0-0.1	SE231416.016	%	70 - 130%	90
	TP17_0.1-0.2	SE231416.017	%	70 - 130%	88
	TP18_0.0-0.1	SE231416.018	%	70 - 130%	88
	TP19_0.1-0.2	SE231416.019	%	70 - 130%	90
	TP20_0.0-0.1	SE231416.020	%	70 - 130%	90
	TP21_0.0-0.1	SE231416.021	%	70 - 130%	94
	TP22_0.0-0.1	SE231416.022	%	70 - 130%	92

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	117
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	110
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	111
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	113
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	116
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	114
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	115
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	112
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	110
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	114
	TP12_0.0-0.1	SE231416.012	%	60 - 130%	111
	TP13_0.0-0.1	SE231416.013	%	60 - 130%	109
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	109
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	113
	TP16_0.0-0.1	SE231416.016	%	60 - 130%	110
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	109
	TP18_0.0-0.1	SE231416.018	%	60 - 130%	111
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	108
	TP20_0.0-0.1	SE231416.020	%	60 - 130%	110
	TP21_0.0-0.1	SE231416.021	%	60 - 130%	109
	TP22_0.0-0.1	SE231416.022	%	60 - 130%	110

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	72
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	89
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	94
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	87
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	91
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	108
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	88
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	91
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	92
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	90
	TP12_0.0-0.1	SE231416.012	%	60 - 130%	87
	TP13_0.0-0.1	SE231416.013	%	60 - 130%	89
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	85
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	90
	TP16_0.0-0.1	SE231416.016	%	60 - 130%	92
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	88
	TP18_0.0-0.1	SE231416.018	%	60 - 130%	94
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	87
	TP20_0.0-0.1	SE231416.020	%	60 - 130%	87
	TP21_0.0-0.1	SE231416.021	%	60 - 130%	95
	TP22_0.0-0.1	SE231416.022	%	60 - 130%	88
d4-1,2-dichloroethane (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	72
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	78
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	84
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	77

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

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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 %
d4-1,2-dichloroethane (Surrogate)	TP5_0.2-0.3	SE231416.005	%	60 - 130%	82
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	97
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	81
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	83
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	82
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	81
	TP12_0-0.1	SE231416.012	%	60 - 130%	79
	TP13_0-0.1	SE231416.013	%	60 - 130%	81
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	79
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	83
	TP16_0-0.1	SE231416.016	%	60 - 130%	83
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	80
	TP18_0-0.1	SE231416.018	%	60 - 130%	86
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	80
	TP20_0-0.1	SE231416.020	%	60 - 130%	76
	TP21_0-0.1	SE231416.021	%	60 - 130%	86
	TP22_0-0.1	SE231416.022	%	60 - 130%	79
d8-toluene (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	76
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	83
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	88
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	81
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	87
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	102
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	83
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	87
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	87
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	85
	TP12_0-0.1	SE231416.012	%	60 - 130%	83
	TP13_0-0.1	SE231416.013	%	60 - 130%	83
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	80
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	84
	TP16_0-0.1	SE231416.016	%	60 - 130%	85
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	82
	TP18_0-0.1	SE231416.018	%	60 - 130%	89
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	82
	TP20_0-0.1	SE231416.020	%	60 - 130%	78
	TP21_0-0.1	SE231416.021	%	60 - 130%	90
	TP22_0-0.1	SE231416.022	%	60 - 130%	83

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	72
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	89
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	94
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	87
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	91
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	108
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	88
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	91
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	92
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	90
	TP12_0-0.1	SE231416.012	%	60 - 130%	87
	TP13_0-0.1	SE231416.013	%	60 - 130%	89
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	85
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	90
	TP16_0-0.1	SE231416.016	%	60 - 130%	92
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	88
	TP18_0-0.1	SE231416.018	%	60 - 130%	94
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	87
	TP20_0-0.1	SE231416.020	%	60 - 130%	87
	TP21_0-0.1	SE231416.021	%	60 - 130%	95

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

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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 %
Bromofluorobenzene (Surrogate)	TP22_0-0.1	SE231416.022	%	60 - 130%	88
d4-1,2-dichloroethane (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	72
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	78
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	84
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	77
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	82
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	97
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	81
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	83
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	82
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	81
	TP12_0-0.1	SE231416.012	%	60 - 130%	79
	TP13_0-0.1	SE231416.013	%	60 - 130%	81
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	79
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	83
	TP16_0-0.1	SE231416.016	%	60 - 130%	83
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	80
	TP18_0-0.1	SE231416.018	%	60 - 130%	86
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	80
	TP20_0-0.1	SE231416.020	%	60 - 130%	76
	TP21_0-0.1	SE231416.021	%	60 - 130%	86
	TP22_0-0.1	SE231416.022	%	60 - 130%	79
d8-toluene (Surrogate)	TP1_0.1-0.2	SE231416.001	%	60 - 130%	76
	TP2_0.1-0.2	SE231416.002	%	60 - 130%	83
	TP3_0.2-0.3	SE231416.003	%	60 - 130%	88
	TP4_0.1-0.2	SE231416.004	%	60 - 130%	81
	TP5_0.2-0.3	SE231416.005	%	60 - 130%	87
	TP6_0.2-0.4	SE231416.006	%	60 - 130%	102
	TP7_0.2-0.4	SE231416.007	%	60 - 130%	83
	TP8_0.1-0.3	SE231416.008	%	60 - 130%	87
	TP9_0.1-0.2	SE231416.009	%	60 - 130%	87
	TP11_0.1-0.3	SE231416.011	%	60 - 130%	85
	TP12_0-0.1	SE231416.012	%	60 - 130%	83
	TP13_0-0.1	SE231416.013	%	60 - 130%	83
	TP14_0.1-0.2	SE231416.014	%	60 - 130%	80
	TP15_0.1-0.2	SE231416.015	%	60 - 130%	84
	TP16_0-0.1	SE231416.016	%	60 - 130%	85
	TP17_0.1-0.2	SE231416.017	%	60 - 130%	82
	TP18_0-0.1	SE231416.018	%	60 - 130%	89
	TP19_0.1-0.2	SE231416.019	%	60 - 130%	82
	TP20_0-0.1	SE231416.020	%	60 - 130%	78
	TP21_0-0.1	SE231416.021	%	60 - 130%	90
	TP22_0-0.1	SE231416.022	%	60 - 130%	83

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Number	Parameter	Units	LOR	Result
LB247379.001	Mercury	mg/kg	0.05	<0.05
LB247389.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB247368.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.2	<0.2
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
Surrogates	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	119

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB247368.001	Dichlorvos	mg/kg	0.5	<0.5
	Dimethoate	mg/kg	0.5	<0.5
	Diazinon (Dimpylate)	mg/kg	0.5	<0.5
	Fenitrothion	mg/kg	0.2	<0.2
	Malathion	mg/kg	0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Bromophos Ethyl	mg/kg	0.2	<0.2
	Methidathion	mg/kg	0.5	<0.5
	Ethion	mg/kg	0.2	<0.2
	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
Surrogates	2-fluorobiphenyl (Surrogate)	%	-	96
	d14-p-terphenyl (Surrogate)	%	-	100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB247368.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB247368.001	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	94
	2-fluorobiphenyl (Surrogate)	%	-	96
	d14-p-terphenyl (Surrogate)	%	-	100

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB247368.001	Arochlor 1016	mg/kg	0.2	<0.2
	Arochlor 1221	mg/kg	0.2	<0.2
	Arochlor 1232	mg/kg	0.2	<0.2
	Arochlor 1242	mg/kg	0.2	<0.2
	Arochlor 1248	mg/kg	0.2	<0.2
	Arochlor 1254	mg/kg	0.2	<0.2
	Arochlor 1260	mg/kg	0.2	<0.2
	Arochlor 1262	mg/kg	0.2	<0.2
	Arochlor 1268	mg/kg	0.2	<0.2
	Total PCBs (Arochlors)	mg/kg	1	<1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	119

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

Method: ME-(AU)-[ENV]AN400/AN320

Sample Number	Parameter	Units	LOR	Result
LB247380.001	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
LB247386.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB247368.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB247367.001	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)	%	-	92
		d8-toluene (Surrogate)	%	-	97
		Bromofluorobenzene (Surrogate)	%	-	104
	Totals	Total BTEX	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR
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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.

Volatile Petroleum Hydrocarbons in Soil (continued)**Method: ME-(AU)-ENVJAN433**

Sample Number	Parameter	Units	LOR	Result
LB247367.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	92

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)-ENVJAN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231414.007	LB247389.014	Mercury	mg/kg	0.05	<0.05	<0.05	151	0
SE231416.011	LB247379.014	Mercury	mg/kg	0.05	<0.05	<0.05	172	0
SE231416.020	LB247379.024	Mercury	mg/kg	0.05	<0.05	<0.05	156	0
SE231420.005	LB247389.022	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-ENVJAN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247370.011	% Moisture	%w/w	1	9.8	11.8	39	19
SE231416.021	LB247370.022	% Moisture	%w/w	1	16.4	17.0	36	3
SE231416.022	LB247370.024	% Moisture	%w/w	1	12.2	11.6	38	5

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247368.014	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Total OC VIC EPA	mg/kg	1	<1	<1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	1
SE231416.022	LB247368.027	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0

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

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.022	LB247368.027	Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Total OC VIC EPA	mg/kg	1	<1	<1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.14	30	17

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247368.014	Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
		Malathion	mg/kg	0.2	<0.2	<0.2	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
		Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
		Ethion	mg/kg	0.2	<0.2	<0.2	200	0
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
		Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	2
SE231416.022	LB247368.027	Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
		Malathion	mg/kg	0.2	<0.2	<0.2	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
		Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
		Ethion	mg/kg	0.2	<0.2	<0.2	200	0
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
		Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247368.014	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	148	10
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	0.1	141	18
		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

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 %
SE231416.011	LB247368.014	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	184	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	0
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	2
SE231416.022	LB247368.027	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	<0.3	<0.3	134	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	<0.2	<0.2	175	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	0
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

PCBs in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247368.014	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
SE231416.022	LB247368.027	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	1
		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
SE231416.022	LB247368.027	Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	17

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

Method: ME-(AU)-[ENV]AN40/AN320

Original	Duplicate	Parameter	Units	LOR
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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]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231414.007	LB247386.014	Arsenic, As	mg/kg	1	5	8	45	32
		Cadmium, Cd	mg/kg	0.3	<0.3	0.4	117	28
		Chromium, Cr	mg/kg	0.5	5.6	6.6	38	17
		Copper, Cu	mg/kg	0.5	20	18	33	10
		Nickel, Ni	mg/kg	0.5	2.3	3.1	48	30
		Lead, Pb	mg/kg	1	28	46	33	49 @
		Zinc, Zn	mg/kg	2	26	35	37	27
SE231416.011	LB247380.014	Arsenic, As	mg/kg	1	4	4	55	5
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	24	25	32	4
		Copper, Cu	mg/kg	0.5	28	30	32	6
		Nickel, Ni	mg/kg	0.5	120	120	30	3
		Lead, Pb	mg/kg	1	19	24	35	23
		Zinc, Zn	mg/kg	2	59	75	33	24
SE231416.020	LB247380.024	Arsenic, As	mg/kg	1	3	3	61	7
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	23	24	32	6
		Copper, Cu	mg/kg	0.5	5.9	6.0	38	2
		Nickel, Ni	mg/kg	0.5	5.4	5.9	39	9
		Lead, Pb	mg/kg	1	9	10	41	2
		Zinc, Zn	mg/kg	2	7.0	8.6	56	20
SE231420.005	LB247386.022	Arsenic, As	mg/kg	1	10	10	40	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	15	17	33	10
		Copper, Cu	mg/kg	0.5	15	12	34	18
		Nickel, Ni	mg/kg	0.5	9.1	8.8	36	3
		Lead, Pb	mg/kg	1	18	15	36	15
		Zinc, Zn	mg/kg	2	37	33	36	13

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247368.014	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 >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 C10-C14	mg/kg	20	<20	<20	200	0
		TRH C15-C28	mg/kg	45	<45	<45	200	0
SE231416.022	LB247368.027	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 >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 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

VOC's in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247367.015	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			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	-	8.1	8.5	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.5	8.8	50	3

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)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247367.015	Surrogates	Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	9.1	50
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200
SE231416.022	LB247367.032	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200
			Toluene	mg/kg	0.1	<0.1	<0.1	200
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200
			o-xylene	mg/kg	0.1	<0.1	<0.1	200
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.1	50
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.5	50
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	9.1	50
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE231416.011	LB247367.015	TRH C6-C10	TRH C6-C10	mg/kg	25	<25	<25	200
			TRH C6-C9	mg/kg	20	<20	<20	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.5	30
			d8-toluene (Surrogate)	mg/kg	-	8.5	8.8	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	9.1	30
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200
SE231416.022	LB247367.032	TRH C6-C10	TRH C6-C10	mg/kg	25	<25	<25	200
			TRH C6-C9	mg/kg	20	<20	<20	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.1	30
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.5	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	9.1	30
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200

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 %
LB247379.002	Mercury	mg/kg	0.05	0.18	0.2	70 - 130	90
LB247389.002	Mercury	mg/kg	0.05	0.24	0.2	70 - 130	120

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247368.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	109
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	113
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	116
	Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	112
	Endrin	mg/kg	0.2	0.2	0.2	60 - 140	114
	p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	70
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	109

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247368.002	Dichlorvos	mg/kg	0.5	1.9	2	60 - 140	97
	Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	107
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.1	2	60 - 140	106
	Ethion	mg/kg	0.2	2.2	2	60 - 140	110
Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247368.002	Naphthalene	mg/kg	0.1	4.2	4	60 - 140	106
	Acenaphthylene	mg/kg	0.1	4.0	4	60 - 140	99
	Acenaphthene	mg/kg	0.1	3.8	4	60 - 140	96
	Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	101
	Anthracene	mg/kg	0.1	3.7	4	60 - 140	93
	Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	97
	Pyrene	mg/kg	0.1	3.9	4	60 - 140	96
	Benzo(a)pyrene	mg/kg	0.1	4.1	4	60 - 140	103
	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	94
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	88

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247368.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	93

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 %
LB247380.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	114
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	97
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	102
	Copper, Cu	mg/kg	0.5	340	290	80 - 120	116
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	109
	Lead, Pb	mg/kg	1	98	89.9	80 - 120	109
	Zinc, Zn	mg/kg	2	300	273	80 - 120	110
LB247386.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	112
	Cadmium, Cd	mg/kg	0.3	4.6	4.81	70 - 130	95
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	98
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	114
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	106
	Lead, Pb	mg/kg	1	96	89.9	80 - 120	107
	Zinc, Zn	mg/kg	2	290	273	80 - 120	107

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR
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Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)
Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247368.002	TRH C10-C14	mg/kg	20	49	40	60 - 140	123
	TRH C15-C28	mg/kg	45	50	40	60 - 140	125
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	100
	TRH F Bands						
	TRH >C10-C16	mg/kg	25	50	40	60 - 140	125
	TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	115
	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	100

VOC's in Soil
Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247367.002	Monocyclic						
	Benzene	mg/kg	0.1	5.3	5	60 - 140	106
	Aromatic						
	Toluene	mg/kg	0.1	5.2	5	60 - 140	104
	Ethylbenzene	mg/kg	0.1	5.1	5	60 - 140	102
	m/p-xylene	mg/kg	0.2	9.9	10	60 - 140	99
	o-xylene	mg/kg	0.1	5.3	5	60 - 140	106
	Surrogates						
	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.7	10	70 - 130	107
	d8-toluene (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
	Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130	102

Volatile Petroleum Hydrocarbons in Soil
Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB247367.002	TRH C6-C10	mg/kg	25	83	92.5	60 - 140	90
	TRH C6-C9	mg/kg	20	74	80	60 - 140	92
	Surrogates						
	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.7	10	70 - 130	107
	Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130	102
	VPH F Bands						
	TRH C6-C10 minus BTEX (F1)	mg/kg	25	52	62.5	60 - 140	84

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.

OC Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	138
		Aldrin	mg/kg	0.1	0.3	<0.1	0.2	134
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.3	<0.1	0.2	140
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	0.2	0.2	-	-
		Dieldrin	mg/kg	0.2	0.3	<0.2	0.2	140 ☹
		Endrin	mg/kg	0.2	0.3	<0.2	0.2	149 ☹
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		p,p'-DDD	mg/kg	0.1	0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.3	<0.1	0.2	110
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
		Total CLP OC Pesticides	mg/kg	1	2	<1	-	-
		Total OC VIC EPA	mg/kg	1	2	<1	-	-
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.18	0.18	-	117

OP Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	Dichlorvos	mg/kg	0.5	1.9	<0.5	2	96
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Diazinon (Dimpylate)	mg/kg	0.5	2.2	<0.5	2	108
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.1	<0.2	2	107
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
		Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
		Ethion	mg/kg	0.2	2.1	<0.2	2	107
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	8.3	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	86

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	Naphthalene	mg/kg	0.1	4.2	<0.1	4	105
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	3.9	<0.1	4	98
		Acenaphthene	mg/kg	0.1	3.7	<0.1	4	93
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.0	<0.1	4	101
		Anthracene	mg/kg	0.1	3.7	<0.1	4	92
		Fluoranthene	mg/kg	0.1	3.9	0.2	4	94
		Pyrene	mg/kg	0.1	3.9	0.2	4	93
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	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]JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	Benzo(b&i)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	4.1	<0.1	4	102
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	4.1	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.2	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.2	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	31	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	94
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	86

PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	122
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	117

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

Method: ME-(AU)-[ENV]JAN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231385.001	LB247386.004	Arsenic, As	mg/kg	1	55	6	50	98
		Cadmium, Cd	mg/kg	0.3	50	0.3	50	100
		Chromium, Cr	mg/kg	0.5	93	40	50	105
		Copper, Cu	mg/kg	0.5	64	12	50	106
		Nickel, Ni	mg/kg	0.5	54	3.6	50	101
		Lead, Pb	mg/kg	1	92	50	50	83
		Zinc, Zn	mg/kg	2	150	100	50	95
SE231416.001	LB247380.004	Arsenic, As	mg/kg	1	54	4	50	100
		Cadmium, Cd	mg/kg	0.3	50	1.1	50	98
		Chromium, Cr	mg/kg	0.5	65	18	50	94
		Copper, Cu	mg/kg	0.5	92	42	50	99
		Nickel, Ni	mg/kg	0.5	58	10	50	95
		Lead, Pb	mg/kg	1	580	140	50	896 ④
		Zinc, Zn	mg/kg	2	460	410	50	90

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE231416.001	LB247368.004	TRH C10-C14	mg/kg	20	49	<20	40	123
		TRH C15-C28	mg/kg	45	48	<45	40	120
		TRH C29-C36	mg/kg	45	<45	<45	40	103
		TRH C37-C40	mg/kg	100	<100	<100	-	-
		TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH >C10-C16	mg/kg	25	48	<25	40	120
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	48	<25	-	-
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	120
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]JAN433

QC Sample	Sample Number	Parameter	Units	LOR
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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%
SE231416.001	LB247367.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.5	<0.1	5	90
			Toluene	mg/kg	0.1	4.4	<0.1	5	88
			Ethylbenzene	mg/kg	0.1	4.3	<0.1	5	86
			m/p-xylene	mg/kg	0.2	8.4	<0.2	10	84
			o-xylene	mg/kg	0.1	4.5	<0.1	5	90
		Polycyclic	Naphthalene (VOC)	mg/kg	0.1	<0.1	<0.1	-	-
			Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	7.2	10
		d8-toluene (Surrogate)		mg/kg	-	8.7	7.6	10	87
		Bromofluorobenzene (Surrogate)		mg/kg	-	8.1	7.2	10	81
		Totals	Total Xylenes	mg/kg	0.3	13	<0.3	-	-
			Total BTEX	mg/kg	0.6	26	<0.6	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE231416.001	LB247367.004	TRH C6-C10	mg/kg	25	67	<25	92.5	72	
		TRH C6-C9	mg/kg	20	61	<20	80	76	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	7.2	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.7	7.6	10	87
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.1	7.2	-	81
		VPH F	Benzene (F0)	mg/kg	0.1	4.5	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	41	<25	62.5	65

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

QC Sample	Sample Number	Parameter	Units	LOR
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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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Project **E25649 Griffith Base Hospital**
Order Number **E25649**
Samples 22

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SGS Reference **SE231416 R0**
Date Received 28 Apr 2022
Date Reported 29 Apr 2022

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

Sample # 1 : Asbestos found in approx 35x20x4mm cement sheet fragment.

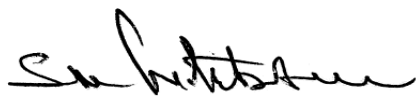
Sample # 2 : Asbestos found as approx 5-6 x 1mm loose fibre bundles x5 and found as approx 2x1x1mm spongy fibrous material.

Sample # 3 : Asbestos found in approx 6x4x2mm cement sheet fragment.

Sample # 17 : Asbestos found in approx 6x4x3mm cement sheet fragments x2.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



Yusuf KUTHPUDIN
Asbestos Analyst

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE231416.001	TP1_0.1-0.2	Soil	589g Clay,Sand,Soil, Rocks	27 Apr 2022	Chrysotile Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	>0.01
SE231416.002	TP2_0.1-0.2	Soil	726g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE231416.003	TP3_0.2-0.3	Soil	733g Clay,Sand,Soil, Rocks	27 Apr 2022	Chrysotile Asbestos Found at RL of 0.1g/kg	>0.01
SE231416.004	TP4_0.1-0.2	Soil	643g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.005	TP5_0.2-0.3	Soil	654g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.006	TP6_0.2-0.4	Soil	693g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE231416.007	TP7_0.2-0.4	Soil	697g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.008	TP8_0.1-0.3	Soil	681g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.009	TP9_0.1-0.2	Soil	687g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.010	TP10_0.1-0.2	Soil	761g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.011	TP11_0.1-0.3	Soil	744g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.012	TP12_0-0.1	Soil	655g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.013	TP13_0-0.1	Soil	505g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.014	TP14_0.1-0.2	Soil	737g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.015	TP15_0.1-0.2	Soil	579g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.016	TP16_0-0.1	Soil	676g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.017	TP17_0.1-0.2	Soil	602g Clay,Sand,Soil, Rocks	27 Apr 2022	Chrysotile & Crocidolite Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	>0.01
SE231416.018	TP18_0-0.1	Soil	625g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.019	TP19_0.1-0.2	Soil	733g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE231416.020	TP20_0-0.1	Soil	444g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.021	TP21_0-0.1	Soil	434g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE231416.022	TP22_0-0.1	Soil	525g Clay,Sand,Soil, Rocks	27 Apr 2022	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD

METHODOLOGY SUMMARY

AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be 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	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported "no asbestos found at the reporting limit (RL) of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (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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This test report shall not be reproduced, except in full.

Site:

Project No:

Griffith Base Hospital

E25649

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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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



eiaustralia
Contamination | Remediation | Geotechnical

CCO June 2021 FORM 4.5 - SGS

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

Sample Matrix

Analysis

Comments

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

Sampler's Name (EI):

Received by (SGS):

Sampler's Comments:

Report with EI Waste Classification Table



Print
Signature
Date
28/4/12

Print
Signature
Date
28/4/12 3:40

IMPORTANT:

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

LABORATORY
TURNAROUND

- ☐ Standard
☒ 24 Hours
☐ 48 Hours
☐ 72 Hours
☐ Other

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

HM^A

Arsenic

Cadmium

Chromium

Copper

Lead

Mercury

Nickel

Zinc

HM^B

Arsenic

Cadmium

Chromium

Copper

Lead

Mercury

Nickel

Zinc



SAMPLE RECEIPT ADVICE

SE231416

CLIENT DETAILS

Contact Emmanuel Woelders
Client EIAUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email emmanuel.woelders@eiaustralia.com.au

Project **E25649 Griffith Base Hospital**
Order Number **E25649**
Samples 22

LABORATORY DETAILS

Manager Huong Crawford
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 Thu 28/4/2022
Report Due Fri 29/4/2022
SGS Reference **SE231416**

SUBMISSION DETAILS

This is to confirm that 22 samples were received on Thursday 28/4/2022. Results are expected to be ready by COB Friday 29/4/2022. Please quote SGS reference SE231416 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	22 Soil
Date documentation received	28/4/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	13°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

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

TP9_0.4-0.5 and TP16_0.1-0.2 have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

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CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25649 Griffith Base Hospital**

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	TP1_0.1-0.2	30	14	26	11	7	10	11	7
002	TP2_0.1-0.2	30	14	26	11	7	10	11	7
003	TP3_0.2-0.3	30	14	26	11	7	10	11	7
004	TP4_0.1-0.2	30	14	26	11	7	10	11	7
005	TP5_0.2-0.3	30	14	26	11	7	10	11	7
006	TP6_0.2-0.4	30	14	26	11	7	10	11	7
007	TP7_0.2-0.4	30	14	26	11	7	10	11	7
008	TP8_0.1-0.3	30	14	26	11	7	10	11	7
009	TP9_0.1-0.2	30	14	26	11	7	10	11	7
011	TP11_0.1-0.3	30	14	26	11	7	10	11	7
012	TP12_0-0.1	30	14	26	11	7	10	11	7
013	TP13_0-0.1	30	14	26	11	7	10	11	7
014	TP14_0.1-0.2	30	14	26	11	7	10	11	7
015	TP15_0.1-0.2	30	14	26	11	7	10	11	7
016	TP16_0-0.1	30	14	26	11	7	10	11	7
017	TP17_0.1-0.2	30	14	26	11	7	10	11	7
018	TP18_0-0.1	30	14	26	11	7	10	11	7
019	TP19_0.1-0.2	30	14	26	11	7	10	11	7
020	TP20_0-0.1	30	14	26	11	7	10	11	7
021	TP21_0-0.1	30	14	26	11	7	10	11	7
022	TP22_0-0.1	30	14	26	11	7	10	11	7

CONTINUED OVERLEAF

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

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E25649 Griffith Base Hospital**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Gravimetric Determination of Asbestos in Soil	Mercury in Soil	Moisture Content
001	TP1_0.1-0.2	2	9	1	1
002	TP2_0.1-0.2	2	9	1	1
003	TP3_0.2-0.3	2	9	1	1
004	TP4_0.1-0.2	2	9	1	1
005	TP5_0.2-0.3	2	9	1	1
006	TP6_0.2-0.4	2	9	1	1
007	TP7_0.2-0.4	2	9	1	1
008	TP8_0.1-0.3	2	9	1	1
009	TP9_0.1-0.2	2	9	1	1
010	TP10_0.1-0.2	2	9	-	-
011	TP11_0.1-0.3	2	9	1	1
012	TP12_0-0.1	2	9	1	1
013	TP13_0-0.1	2	9	1	1
014	TP14_0.1-0.2	2	9	1	1
015	TP15_0.1-0.2	2	9	1	1
016	TP16_0-0.1	2	9	1	1
017	TP17_0.1-0.2	2	9	1	1
018	TP18_0-0.1	2	9	1	1
019	TP19_0.1-0.2	2	9	1	1
020	TP20_0-0.1	2	9	1	1
021	TP21_0-0.1	2	9	1	1
022	TP22_0-0.1	2	9	1	1

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

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

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

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