

CONGARINNI NORTH PTY LTD



Detailed Site Investigation

24 Coronation Road, Congarinni North NSW

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Table of Contents

	Page Number
EXECUTIVE SUMMARY	1
1. INTRODUCTION	1
1.1 Background and Purpose	1
1.2 Proposed Development	1
1.3 Regulatory Framework	1
1.4 Project Objectives	2
1.5 Scope of Works	2
1.5.1 Desktop Study	2
1.5.2 Field Work & Laboratory Analysis	3
2. SITE DESCRIPTION	4
2.1 Property Identification, Location, and Physical Setting	4
2.2 Local Land Use	4
2.3 Regional Setting	5
2.4 Site Inspection	7
3. PREVIOUS INVESTIGATIONS	8
4. SITE HISTORY	9
4.1 Site Land Titles Information / Historical Aerial Review	9
4.2 Groundwater Bore Records and Groundwater Use	11
4.3 Council Information	11
4.4 EPA Online Records	11
4.4.1 Contaminated Land – Record of Notices under Section 58 of CLM Act (1997)	11
4.4.2 List of NSW contaminated sites notified to EPA	11
4.4.3 POEO Public Register	11
4.5 PFAS Assessment	11
4.5.1 Preliminary PFAS Screen	11
4.5.2 Emerging Chemicals	13
5. CONCEPTUAL SITE MODEL	14
5.1 Subsurface Conditions	14
5.2 Contamination Sources	14
5.3 Potential Contaminants	14
5.4 Data Gaps	15
6. METHODOLOGY	17
6.1 Sample, Analysis & Quality Plan (SAQP)	17
6.2 Data Quality Objective (DQO)	17
6.3 Data Quality Indicators	20

6.4	Sampling Rationale	20
6.5	Assessment Criteria	20
6.6	Soil Investigation	21
6.7	Field Screening - Acid Sulfate Soils	22
6.8	Depth to Groundwater	23
7.	DATA QUALITY ASSESSMENT	24
8.	RESULTS	26
8.1	Soil Field Results	26
8.1.1	<i>Subsurface Conditions</i>	26
8.1.2	<i>General Observations and PID Results</i>	26
8.1.3	<i>Field pH / pH_{fox} Analysis</i>	27
8.1.4	<i>Acid Sulfate Soil Laboratory Analysis</i>	27
8.2	Laboratory Analytical Results	28
8.2.1	<i>Soil Analytical Results</i>	28
8.2.2	<i>Acid Sulfate Soil Analysis</i>	29
9.	SITE CHARACTERISATION	32
9.1	Soil Characterisation	32
9.2	Review of Conceptual Site Model	33
10.	CONCLUSION	34
11.	RECOMMENDATIONS	35
12.	STATEMENT OF LIMITATIONS	36
	REFERENCES	37
	ABBREVIATIONS	39

Schedule of Tables

Table 2-1	Site Identification	4
Table 2-2	Local Land Use	5
Table 2-3	Regional Setting	5
Table 4-1	Summary of Owner History	9
Table 4-2	Summary of Aerial Photograph History	10
Table 4-3	PFAS Decision Tree	12
Table 4-4	Emerging or Controlled Chemicals	13
Table 5-1	Contaminant Sources	14
Table 5-2	Potential Contaminants and Impacted Media	15
Table 5-3	Conceptual Site Model	16
Table 6-1	Summary of Project Data Quality Objectives	18
Table 6-2	Data Quality Indicators	20
Table 6-3	Adopted Investigation Levels for Soil and Groundwater	20
Table 6-4	Summary of Soil Investigation Methodology	21
Table 7-1	Quality Control Process	24

Table 8-1	Generalised Subsurface Profile	26
Table 8-2	Summary of Soil Analytical Results	28
Table 8-3	Summary of Laboratory Analytical Results	30

Appendices

APPENDIX A - FIGURES

- A.1 Site Location Plan
- A.2 Site Layout Plan
- A.3 Location of Potential Acid Sulfate Soils

APPENDIX B – TABLES

- B.1 Soil results
- B.2 QA/QC results

APPENDIX C – BOREHOLE LOGS

APPENDIX D – FIELD DATA SHEETS AND CALIBRATION CERTIFICATES

APPENDIX E – CHAIN OF CUSTODY AND SAMPLE RECEIPT FORMS

APPENDIX F – LABORATORY ANALYTICAL REPORTS

APPENDIX G – LABORATORY QA/QC POLICIES AND DQOS

APPENDIX H – QA/QC ASSESSMENT

APPENDIX I – SITE PHOTOGRAPHS

APPENDIX J – HISTORIC TITLES SEARCH

APPENDIX K – DATA ANALYSIS

Executive Summary

Background

Mr. Ron Pomeroy of Congarinni North Pty Ltd ('the Client') engaged EI Australia (EI) to conduct a Detailed Site Investigation for the property located at 24 Coronation Road, Congarinni North NSW ('the site'). This assessment was conducted to assess the nature and degree of any potential onsite contamination associated with current and former users of the property. The investigation will form part of a Development Application package to Nambucca Valley Council for site redevelopment.

This site is located approximately 52.7 km south-west of the Coffs Harbour Central Business District (CBD) and is located within the Local Government Area of Nambucca Valley Council (**Figure 1**). It is comprised of Lot 188 and Lot 155 of DP 755537, covering a total area of 57.3 ha, as depicted in **Figure 2**. The eastern portion of the site is currently occupied by a single level residential dwelling with an adjacent, dilapidated timber shed building; the remainder of the site is occupied by agricultural land.

The site is currently occupied by a total of three structures, as follows:

- The eastern portion of the site is currently occupied by a single level residential dwelling, comprised of timber / fibre cement walls and a tin roof with suspended timber floor boards;
- A single level, dilapidated, unused dwelling with timber walls and corrugated tin and fibre cement roof with apparent weathering and damage to external walls and footings; and
- A single level shed / barn / storage building with a concrete slab on grade, timber walls and a corrugated tin roof.

Based on the findings from this DSI it was concluded that:

- The site was occupied by agricultural land with a residential dwelling from at least 1930 until present, with a new dwelling erected in approximately 1967;
- The CSM identified the following potential sources of on-site contamination:
 - Fill soils of unknown origin including potential waste buried in excavation pit;
 - Potential on-site use of pesticides across the agricultural portions of the site;
 - Potential storage of chemicals associated with dipping / dredging livestock and vehicle oils;
 - Migration of contaminants onsite from adjacent roads or infrastructure, such as high voltage powerlines; and
 - Exposure of Acid Sulfate Soils.
- Analytical results for the representative soil samples collected from across the site were generally below the adopted acceptance criteria relevant for the proposed residential land use, with the exception of the sample identified as BH116_0.3 which exceeded the human health and ecological assessment criteria. A 95-UCL was completed for the arsenic concentrations found within top soil / fill soil which returned a result of 42.3 mg/kg, which is below the relevant assessment criteria. Furthermore the identified arsenic exceedance lies within the proposed Perimeter road – Fire Trail where the material is likely to be removed during the construction of the road.

- A combination of field pH / pH_{f_{ox}} analysis and analytical SPOCAS analysis indicated that PASS is present within the eastern portion of the site.

Based on the above findings and with due regard for the Statement of Limitations (**Section 13**), EI considered that minor localised contamination was present at the site, and the land can be made suitable for the proposed land use subject to the implementation of the recommendations provided in **Section 12**

1. Introduction

1.1 Background and Purpose

Mr. Ron Pomeroy of Congarinni North Pty Ltd ('the Client') engaged EI Australia (EI) to undertake a Detailed Site Investigation (DSI) at 24 Coronation Road, Congarinni North NSW ('the site').

This DSI involved two phases of work as follows:

- A preliminary desktop assessment of the nature and degree of any potential onsite contamination associated with current and former uses of the property; and
- A detailed intrusive investigation involving the collection of soil samples followed by laboratory analysis for relevant contaminants of potential concern.

It is understood that the DSI report would form part of a Development Application package to Nambucca Valley Council for site redevelopment. The DSI was undertaken in conjunction with a geotechnical investigations completed as a separate report entitled:

- This environmental investigation has been prepared in conjunction with a Geotechnical Investigation Report (ref: EI Australia 2020a; 24 Coronation Road, Congarinni North NSW; E24901.G03).

The site is located within the Local Government Area of Nambucca Valley Council (**Figure 1**) and comprises Lot 188 and Lot 155 of DP 755537, covering an area of 57.53 ha, as depicted in **Figure 2**. Currently, several buildings are located in the eastern portion of the site toward Coronation Road and the remainder is cleared agricultural land.

1.2 Proposed Development

Based on the proposed plans (Tony Owen Partners, ref: 1012, A012, dated October 2020), EI understands that the site development involves demolition of site wide structures and the construction of a retirement village comprising of 276 single storey residential dwellings, an aged care centre, two main amenities buildings, an on grade helicopter pad, an outdoor pool and recreational bowling green; each block of dwellings will have an adjacent recreational park area. The site layout will consist of an 11.0m wide collector road which will run about the site perimeter and multiple, 5.5m wide internal roads throughout the village. A total of two retention ponds / dams are proposed in the eastern portion of the site with an additional one dam to be constructed in the central-northern portion of the site. No basement excavation is proposed however, site levelling and minor excavation for service installation is likely required.

1.3 Regulatory Framework

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

- NSW Environmental Planning and Assessment Act (EP&A) 1979;
- NSW Protection of the Environment Operation (POEO) Act 1997;
- NSW Contaminated Land Management Act 1997;
- EPA (1995) Sampling Design Guidelines;

- SEPP 55 (1998) State Environment Planning Policy 55 - The Remediation of Land;
- DEC (2007) Guidelines for the Assessment and Management of Groundwater Contamination;
- NSW Work Health and Safety Act 2011;
- Nambucca Local Environmental Plan 2010;
- NEPC (2013) National Environmental Protection (Assessment of Site Contamination) Measure 1999 (Amendment 2013), in particular Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater and Schedule B(2) Guideline on Site Characterisation;
-
- EPA (2017) Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme;
- EPA (2020) Consultants reporting on contaminated land guidelines; and
- ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality.

1.4 Project Objectives

The primary objectives of this DSI are to:

- Evaluate the potential for site contamination on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources (desktop study);
- To investigate the degree of any potential contamination by means of intrusive sampling and laboratory analysis, for relevant contaminants; and
- Where site contamination is confirmed, make recommendations for the appropriate management of the contaminated media (i.e. soils, soil vapour and/or groundwater).

1.5 Scope of Works

In accordance with EI fee proposal P18496.2 (26 August 2020), the following scope of works was adopted:

1.5.1 Desktop Study

- A review of relevant geological, hydrogeological and soil landscape maps for the project area;
- Review of previous environmental reports (if available);
- Detailed site inspection;
- Search of historical aerial photographs archived at the NSW Department of Customer Service (archived by Spatial Services) in order to review previous site use and the historical sequence of land development onsite and in the neighbouring area;
- Site history survey involving a detailed search of Council information relating to operational site history;
- A land titles search, also conducted through NSW Land Registry Service;
- Review of existing underground services on site; and
- A search through the Land Information records archived at the NSW Environment, Energy and Science Group (formerly the Office of Environment and Heritage), within the Dept. of

Planning, Industry and Environment, to confirm that there are no statutory notices current on the site under the Contaminated Land Management Act (1997).

1.5.2 Field Work & Laboratory Analysis

- Preparation of a Work Health, Environment and Safety Plan (WHSEP);
- A review of existing underground services on site, with the use of 'Dial Before You Dig' (DBYD);
- Soil sampling from 56, drilled boreholes distributed across accessible areas of the Site;
- Multiple level soil sampling within fill and natural soils;
- Collection of soil samples in 0.5m increments to a total depth of 4.0 mBGL at two targeted locations. Each of these samples were analysed in the field for the potential for Acid Sulfate Soils (ASS) by means of pH_f / pH_{fox} analysis;
- Two samples were selected from the pH_f / pH_{fox} analysis based on field observations, and submitted to a NATA accredited laboratory for SPOCAS analysis;
- Laboratory analysis of selected soil samples for relevant contaminants of potential concern, as determined from the site history survey and field observations during the investigation programme; and
- Data interpretation and detailed report compiling findings and necessary recommendations.

2. Site Description

2.1 Property Identification, Location, and Physical Setting

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

Table 2-1 Site Identification

Attribute	Description
Street Address	24 Coronation Road, Congarinni North NSW
Location Description	The site is bound by wetland (north), agricultural lots (south and west), and Coronation Road and the Taylors Arm river (east).
Site Coordinates	North-east corner of site (GDA2020-MGA56): Easting: 491450.992 Northing: 6603268.426 (Source: http://maps.six.nsw.gov.au)
Site Area	57.3 ha (Tony Owen, schedule of areas, project no 1012, dated 22-12-2020)
Lot and Deposited Plan (DP)	Lot 188 of DP 755537; and Lot 155 of DP 755537
State Survey Marks	Five State Survey Marks (SSM) and one Permanent Mark (PM) are situated in close proximity (<400m) of the site: ▪ PM74867 located on Schuppe Drive; ▪ SS61095 located on the railway north east of the site; ▪ SS103334 located on the corner of Jofre Street and Jellico Street; ▪ SS64291 located on the corner of Jofre Street and Jellico Street; ▪ SS64292 Located on Jellico Street; and ▪ SS61094 located on Coronation Road. (Source: http://maps.six.nsw.gov.au)
Local Government Authority	Nambucca Valley Council
Parish	Congarinni
County	Raleigh
Current Zoning	E3 – Environmental Management; E2 – Environmental Conservation; and RU1 – Rural zone. (Nambucca Local Environment Plan 2010)

2.2 Local Land Use

The site is situated within an area of low density residential and agricultural land uses, as described in **Table 2-2**. The potential local receptors within close proximity to the site are also identified.

Table 2-2 Local Land Use

Direction Relative to Site	Land Use Description
North	Dense vegetation / wetlands area, followed by agricultural lot(s).
South	Agricultural lot(s).
East	Coronation Road followed by Taylors Arm river. Macksville Township is located east of the river.
West	Dense vegetation / wetlands area, followed by agricultural lot(s).

2.3 Regional Setting

Local topography, geology, soil landscape and hydrogeological information are summarised in **Table 2-3**.

Table 2-3 Regional Setting

Attribute	Description
Topography	The site comprised undulating rises with low lying areas gently sloping toward the north-east (towards Taylors Arm River). The topographical highpoint of the site occurs at 29.51 mAHD sloping toward the topographical low point in the northern portion of the site, occurring at 0.88 mAHD. Regional topography consists of gently undulating plains with relief <3m; slopes usually <2%, up to 50% on short scour edges. Elevation falls from 10m at the tidal limits. Dominantly a single levee crest bordering rivers, minor elements scrolls, swamps and flood channels (Eddie, 2000).
Site Drainage	A prominent drainage channel / subsurface creek, bisecting the eastern portion of the site, was identified immediately east of the shed building. Additional drainage channels were identified in the valleys between the ridgelines oriented in a north-south direction in the western portion of the site. All of the drainage features of the site were observed to flow in a northerly direction toward the swamp area parallel to the northern boundary of the site.
Regional Geology	Eddie (2000) indicated the local geology to be unconsolidated Holocene fluvial sediments dominated by fine silts and clays. Fluvial deltaic flood deposits resulting from estuarine infilling following Holocene marine transgression. The underlying bedrock comprises the early Permian to Carboniferous age phyllite underlain by angular, polymodal quartzose and mica, metamorphosed sandstone.
Soil Landscapes	Eddie (2000) indicated the site is underlain by soils of the Raleigh (ra) group comprising complex range of soil types and soil materials due to the variety of substrate materials within the lower profiles. Lenses of soil materials and buried horizons are common. Soils are deep (>5 m), well-drained uniform loams forming Brown Kandosols (Alluvial Soils and Prairie Soils). Generally, surface soil materials on levees are coarser textured and have greater organic matter accumulation (ra1) than those on backplains (ra2). Underlying materials are saturated Holocene estuarine sediments (ra5) that are potential acid sulfate materials, or sometimes Pleistocene aeolian sands

Attribute	Description
Acid Sulfate Soil (ASS) Risk	With reference to the Macksville Acid Sulfate Soil Risk Map (1:25,000 scale; Murphy, 1997), the western portion of the subject site lies within the land described as '<i>No Known Occurrence</i>' with regards to the Acid Sulfate Soil (ASS) risk. The eastern portion of the subject site encapsulates three separate depositional environments and subsequently three separate acid sulfate soil risks. Sediments in the swamp area adjacent the northern boundary were deposited in an Estuarine Supratidal flat occurring from 1-2 mBGL with a <i>High Probability</i> of ASS occurring within 1m of the ground surface. Sediments immediately east of the dwelling and shed buildings were deposited in an Alluvial Swamp setting and occur from 2-4 mBGL with <i>High Probability</i> of ASS occurring between 1-3m below the ground surface. Sediments in the vicinity of the eastern boundary were deposited in an Alluvial Plain setting and occur from 2-4 mBGL with <i>High Probability</i> of ASS occurring between 1-3m below the ground surface. Based on the information provided above, EI considered that ASS assessment was required as part of this investigation.
Nearest Surface Water Feature(s)	An unnamed creek / wetland is situated parallel to the northern boundary while Taylors Arm river is approximately 100m east of the subject site which flows north to the Nambucca River.
Anticipated Groundwater Flow Direction	Groundwater was inferred to flow north, north-east toward the unnamed wetlands creek and ultimately into Taylors Arm.

2.4 Site Inspection

EI staff inspected the site during intrusive investigations on 17-18 November 2020. The recorded observations are summarised below with a photographic log provided in **Appendix K**:

- The site consisted of undulating rises in the western to south-western portion of the site. The eastern portion of the site was generally level with an apparent creek (topographical low point) oriented in a north-south direction, located immediately east of the shed.
- Dense vegetation with wetlands / swamp were located parallel to the northern boundary, with large trees and ground level shrubs. The swamp area flows toward Taylors Arm immediately east of the site.
- The eastern portion of the site is currently occupied by a single level residential dwelling, comprised of timber weatherboard walls and a corrugated iron roof supported on concrete stumps. Immediately south of the dwelling stood a single level, dilapidated, unused outhouse with timber walls and corrugated iron and fibre cement roof with apparent weathering and damage to external walls and footings. Adjacent the southern boundary stood a single level shed which was probably a former dairy bails with a concrete slab on grade, timber walls and a corrugated iron roof (refer to **Photograph 3**).
- A 200L drum of engine oil was observed within the shed, no evidence of leaking was observed (refer to **Photograph 4**).
- A timber cattle yard, race and crush was observed immediately north of the main access gate on Coronation Road (refer to **Photograph 7**).
- A concrete / brick cattle water trough was observed in the paddock approximately 200m west of the dwelling (refer to **Photograph 10**).
- Grass and sparse tree coverage was observed in all paddock areas of the site. All vegetation observed appeared to be in a healthy condition with no obvious stress.
- Evidence of historical excavation was observed atop the topographical high point of the site (central portion). Loose quartz gravels were observed along the edges of the excavation footprint. No evidence of debris, rubbish or livestock waste (including remains) was observed in the vicinity of the excavation footprint (refer to **Photograph 6**).
- Evidence of rubbish burning was observed approximately 20m north-west of the dwelling (refer to **Photograph 14**).
- Evidence of a septic tank was observed immediately east of the dwelling.
- A high voltage powerline corridor, oriented in a north-south direction, is present in the central portion of the site. A small stockpile of discarded timber was observed at the base of the power-pole approximately 200m south of the northern boundary fence (refer to **Photograph 13**).
- No evidence of any underground storage tanks (USTs) was observed.

3. Previous Investigations

During a review of documents held by Nambucca Valley Council, EI inspected the following document(s);

- Meinhardt (2014) Preliminary Site Investigation – 24 Coronation Road, Congarinni North, NSW ref: 111183, dated July 2014.

A summary of the key findings of Meinhardt (2014) are provided below;

- The site has been residential / agricultural in land use since at least 1947.
- A search of the NSW EPA contaminated sites register indicated that there are no statutory notices pertaining to environmental issues under the *Contaminated Land Act (1997)*, for the subject site.
- A review of the Dorriggo-Coffs Harbour 1:250,000 Geological Map Series (*NSW Dept. Mine and Mineral Resources 1992*) indicates that the site is underlain by Alluvial Mud, Silt, Sand and Gravel deposits and / or phyllite, schist and rare meta-basalt of the Nambucca Beds.
- Land scaring / potential soil excavations were observed in the central and eastern portions of the site were observed on the 1959 historic aerial photograph.
- The residence, garage and sheds comprised a presumed asbestos containing material.
- A stock yard area is located in the south eastern portion of the site. A livestock crush was observed in the stockyards area which may have been used to treat and spray livestock. An above ground storage tank (AST) was located on the southern side the stockyards. The AST was presumed to historically contain water.
- Meinhardt (2014) recommended a hazardous materials inspection be completed prior to demolition of any structures on site. In addition, targeted sampling should be conducted in the vicinity of the identified excavation(s) and any identified concrete pits / septic tank(s).

4. Site History

4.1 Site Land Titles Information / Historical Aerial Review

A historical land titles search was conducted through InfoTrack Pty Ltd on 13 November 2020. Copies of relevant documents resulting from this search are presented in **Appendix E**. A summary of previous and current registered proprietors is provided in **Table 4-1**. Information relating to past potential land uses, as obtained from the available historical aerial photographs is summarised in **Table 4-2**. The historical aerial photographs reviewed as part of this DSI were the following:

- **1956:** Map NSW 195-5080; 01.04.1956, Run 4 Lands Photo;
- **1967:** Map NSW 3240-36; 06.08.82, Run 23, Lands Photo;
- **1980:** Map NSW2867-228; 13.07.1980, Run 3 Lands Photo;
- **1991:** Map NSW 1025-151; 12.09.1991, Run 6 Lands Photo;
- **2001:** Map NSW 183-187; Run 14 Lands Photo; and
- **2016:** maps.six.nsw.gov.au.

Table 4-1 Summary of Owner History

Date of Acquisition and term held	Registered Proprietor(s) & Occupations (where documented)
Lot 155 & 188 of DP 755537	
22.10.1920 (1920 to 1944)	Frank Ralph Augustus Pitman (Farmer)
23.07.1944 (1944 to 1946)	Edgar Leonard Crighton (Farmer)
13.02.1946 (1947 to 1951)	Frederick Henry Mahnken Doris Catherine Mahnken (Married Woman)
23.05.1951 (1951 to 1965)	Ethel Robina Grace (Spinster)
15.10.1965 (1965 to 1968)	Geroge Henry Duffy (Fireman) Katherine Duffy (Married Woman)
28.10.1968 (1968 to 1970)	Alfred Roy Wallace (Station Hand) Alice Isabel Wallace (Married Woman)
10.07.1970 (1970 to 2004)	Ian Michael Lawson (Grazier) Gael Lawson (Married Woman)

Date of Acquisition and term held	Registered Proprietor(s) & Occupations (where documented)
03.02.2004 (2004 to date)	# Anthony John Brownlee
Note 1 # denotes current registered proprietor	

Table 4-2 Summary of Aerial Photograph History

Aerial Photograph	Site description based on historical aerial photographs	Land use
1956	The site appears mostly cleared (including the wetland area to the north). Extensive bushland / forest exist along the western boundary. A small residential dwelling exists in the eastern portion of the site. The site is surrounded by agricultural land to the north, west and south.	Mostly agricultural with residence & sheds
1967	The site appears relatively unchanged from the previous image. Considerable regrowth is apparent in the western portion of the site. A building has been erected adjacent the central eastern boundary of the site and another in the south eastern corner. Multiple location in the central portion of the site display evidence of land scaring / excavations; two in the central portion and two in the north-eastern portion of the site. Surrounding land appears relatively unchanged from previous image.	Mostly agricultural with residence & sheds
1980	The site appears relatively unchanged from previous image. Further regrowth is apparent adjacent the western boundary. The buildings adjacent the eastern boundary appear to have been demolished. The two soil scars / excavations remain in the central portion of the site however the two in the north eastern portion of the site appear overgrown. Multiple dams / retention ponds have been constructed on the western portion of the site.	Mostly agricultural with residence & sheds
1991	The site appears relatively unchanged from the previous image. Regrowth appears to have occurred in the wetland area to the north of the site.	Mostly agricultural with residence & sheds
2001	The site appears relatively unchanged from previous image.	Mostly agricultural with residence & sheds
1986	The site appears relatively unchanged from previous image. The land scaring / excavations appear to have overgrown.	Mostly agricultural with residence & sheds

In summary, review of land titles records and historic aerial photography indicated that the site has been mostly agricultural with residence & sheds since at least 1956 to date. One of the shed suggests that the property may have been a dairy property before being used for grazing.

4.2 Groundwater Bore Records and Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted by EI on 15 December 2020 (Ref. <https://realtimedata.waternsw.com.au/water.stm>). The search did not identify any registered water bores within a 1km radius of the site.

4.3 Council Information

All documents held by Nambucca Valley Council pertaining to the subject site were inspected on 19 November 2020. A preliminary site investigation (Meinhardt 2014) was inspected, the findings of the preliminary site investigation are summarised in **Section 3**.

4.4 EPA Online Records

4.4.1 Contaminated Land – Record of Notices under Section 58 of CLM Act (1997)

An on-line search of the contaminated land public record of EPA Notices was conducted 4 December 2020. The contaminated land public record is a searchable database of:

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

The contaminated land record search found:

- No penalty notices for any properties within the suburb of Congarinni North;

4.4.2 List of NSW contaminated sites notified to EPA

A search through the List of NSW Contaminated Sites notified to the EPA under Section 60 of the CLM Act 1997 was conducted on 4 December 2020. This list is maintained by NSW EPA and includes properties on which contamination has been identified. Not all notified land is deemed to be impacted significantly enough to warrant regulation by the NSW EPA. The search did not identify any notified properties within 500 m of the site.

4.4.3 POEO Public Register

A search of the Protection of the Environment Operations (POEO) Act public register was conducted on 4 December 2020. The public register contains records relating to environmental protection licences, applications, notices, audits, pollution studies, and waste reduction programmes. The search POEO register returned no results for the town of Congarinni North.

4.5 PFAS Assessment

4.5.1 Preliminary PFAS Screen

EPA (2017) requires that per- and poly-fluoroalkyl substances (PFAS) are considered in assessing land contamination. A PFAS probability of occurrence desktop information survey is provided in **Table 4-3** based on the PFAS National Environmental Management Plan (NEMP

2018). PFAS are known to be present in Aqueous Film Forming Firefighting Foams (AFFF) and Alcohol-Type Concentrate (ATC). The historic use of AFFF is reported as being used by Fire & Rescue NSW between 1970 and 2007, while other agencies used AFFF during training exercises as late as 2010 (Source: Fire & Rescue NSW, Information Sheet, Firefighting Foam and PFAS, reference D16/82523). The preliminary screening questions shown in **Table 4-3** take these potential sources into account.

Table 4-3 PFAS Decision Tree

Preliminary Screening	Probability of Occurrence ¹
Based on the review of historical and current site uses, what is the likelihood that any of the site activities listed in Appendix B of NEMP (2020) ² have taken place on the site? If M or H, list the activity:	L
Based on the review of historical uses of surrounding land, what is the likelihood that any of the site activities listed in Appendix B of NEMP (2020) ² took place off-site, either up-gradient or adjacent to the site? If M or H, list the activity:	L
What is the likelihood that firefighting, and/or training in firefighting involving the use of suppressants occurred on-site between 1970 and 2010?	L
What is the likelihood that fire training occurred up-gradient of, or adjacent to the site between 1970 and 2010? ³	L
What is the likelihood that "fuel" fires have ever occurred on-site between 1970 and 2010? e.g. ignition of fuel (solvent, petrol, diesel, kero) tanks?	L
What is the likelihood that PFAS have been used in manufacturing or stored onsite? ⁴	L
What is the likelihood that PFAS have been imported to the site in fill materials originating from a site used for any activity listed in Appendix B of NEMP (2020)?	L
What is the likelihood that PFAS-contaminated groundwater or run-off have migrated on to the site?	L
What is the likelihood that the site or adjacent sites are listed in the NSW EPA PFAS Investigation Program? ⁵	L
PFAS Screen Assessment Finding:	
If the probability is medium or high for any of the above questions, does the site analytical suite need to be optimised to include preliminary sampling and testing for PFAS in soil (incl. ASLP testing) and waters?	No

Notes:

1 Probability:

- L – low (all necessary documentation has been reviewed and there is no recorded instance or compelling rationale);
- M – medium/moderate (all necessary documentation has been reviewed and there is potential evidence of a recorded instance with compelling rationale);
- H – high (all necessary documentation has been reviewed and there is evidence of a recorded instance with compelling rationale);.

2 Activities listed in Appendix B of the NEMP (2020). Further information, refer to https://www.oecd.org/env/ehs/risk-management/PFC_FINAL-Web.pdf.

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

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

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

There is no evidence of any activities involving the use of, or storage of, PFAS in manufacturing, or fuel fires having occurred on the subject site. Evidence of rubbish burning was observed approximately 20m north-west of the dwelling. The scorched area was approximately 2m in diameter and contained evidence of burnt timber, card board and household waste. No evidence of hydrocarbon based oils / fuels having been burnt were

observed. In addition given the location and relatively small scale of burnt materials, the use of firefighting foams was considered to be unlikely.

4.5.2 Emerging Chemicals

The EPA uses Chemical Control Orders (CCOs) as a primary legislative tool under the EHC Act 1985 to specifically control chemicals of concern and limit their potential impact on the environment. CCOs provide the EPA a rapid and flexible mechanism for responding to emerging chemical issues.

As with PFAS compounds, EI considered chemicals controlled by CCOs and other potential emerging chemicals in this PSI, as outlined in **Table 4-4**.

Table 4-4 Emerging or Controlled Chemicals

Chemicals of Concern (CCO or emerging)	Finding
Were aluminium smelter wastes used or stored on site (CCO, 1986)?	No
Do dioxin contaminated wastes (CCO, 1986) have the potential to impact the site? ¹	No
Were organotin products (CCO, 1989) used or stored on site? ²	No
Were polychlorinated biphenyls (PCBs) used or PCB wastes (CCO, 1997) stored on-site? ³	No
Were scheduled chemical or wastes (CCO, 2004) used or stored ⁴	Possible (<i>associated with pesticide use</i>)
Are other emerging chemicals suspected? ⁵	No
If a 'Yes' applies to any question above, the site sampling suite should be optimised to include specific sampling for the corresponding chemicals of concern in soil, air and water	Organochlorine and Organophosphate pesticides were included in the laboratory analytical suite for the assessment of soils

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

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

Note 3 From older transformer oils and electrical capacitors.

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

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

5. Conceptual Site Model

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

5.1 Subsurface Conditions

The subsurface stratigraphy varied across the site, dictated mostly by elevation and proximity to the fluvial depositional environment in the north and east of the site. The low lying areas inferred to lie within the flood plain area in the north and east of the site; consisted of shallow clayey-silt top soil overlying alluvial clayey gravels. The central and western portion of the site, occurring at elevations greater than 4.0 mAHD, comprised silty clay and sandy clay top soil overlying residual clay and weather phyllite bedrock.

5.2 Contamination Sources

Base on the history review and inspection, the primary contaminant sources at the site are outlined in **Table 5-1**.

Table 5-1 Contaminant Sources

Contaminant Source	Potential Impacts
Surface filling (expected beneath slabs and building)	A wide range of potential inorganic and organic chemicals, including asbestos.
Site wide use of pesticides	Potential residual impacts from historic use of pesticides.
Contamination from on-site sources	Potential sources of contamination to soil material include; Historic use of pesticides / herbicides (OCP / OPP) on agricultural land; Vehicle / plant movement across the site (HM, TRH, BTEX & PAHs); Onsite disposal (burying) of waste (HM, TRH, BTEX, PAHs & ACM); Residual impacts in the vicinity of weathered site buildings (HM, TRH, BTEX, PAHs & ACM); Onsite storage of chemicals, such as oils, pesticides or cattle dredging (TRH, BTEX, PAHs, PCBs, OCP / OPP); High voltage powerlines and power-poles (HM, PCBs); and Weathering of site fences (HM).
Contamination from off-site sources	Impacts associated with local traffic or local infrastructure (HM, TRH, PAHs, BTEX)

5.3 Potential Contaminants

Potential contaminants at the site, along with the potential media impacts, are outlined in **Table 5-2**. For definitions and abbreviations see glossary of abbreviations at the end of this report.

Table 5-2 Potential Contaminants and Impacted Media

Potential Contaminant	Soil Impacts ¹	Air Quality ¹ Impacts	Groundwater Impacts ¹
Priority metals (As, Cd, Cr, Cu, Hg, Ni, Pb, and Zn)	M	L	L
Total recoverable hydrocarbons (TRH)	L-M	L	L
VOCs, including chlorinated volatile organic compounds (cVOC) and BTEXN	L	L	L
PAHs including B(a)P TEQ	M	L	L
Phenols	L	L	L
OCPs and OPPs	M	L	L
Polychlorinated biphenyls (PCB)	L	L	L
Asbestos	M	L	N/A
LNAPL or DNAPL	L	N/A	L
PFAS	L	L	L
Unknown chemicals	L	L	L

Notes:

L – low risk; M – medium/moderate risk; H – high risk

N/A – not applicable

Potential contamination sources, exposure pathways and potential human and environmental receptors that were considered relevant for this DSI are summarised in **Table 5-3**.

5.4 Data Gaps

There is uncertainty as to the degree of weathering of site buildings or the potential for leaking from chemicals stored within the milk parlour / shed.

There is uncertainty as to the quality / extent of materials within the observed excavation pit (presumed to have been filled with rubbish / waste). Furthermore, groundwater conditions have not been assessed within the subject site however based on the findings of the CSM and relatively low results for all COPCs, the risk of gross impacts to groundwater is considered low and acceptable.

Furthermore, field data and analytical data confirm the presence of ASS in localised portions of the site. There is uncertainty as to the lateral extent of the ASS bearing strata.

Table 5-3 Conceptual Site Model

Contamination Source	Impacted Media	Contaminants of Potential Concern	Transport Mechanism	Exposure Pathway	Potential Receptor
Fill soils of unknown origin including potential waste buried in excavation pit. Historic pesticide use. Storage of waste oil drums in milk parlour / shed. Weathering of site buildings. Migration of contaminants onsite from adjacent roads or infrastructure, such as powerlines. Exposure of Acid Sulfate Soils.	Soil	HMs, TRH, PAH, OCP/OPP, PCB, BTEXN, asbestos	Disturbance of surficial and subsurface soils during site redevelopment, future site maintenance and future use of the site post redevelopment.	Ingestion Dermal contact Inhalation of dust particulates	Construction and maintenance workers Users of the site post redevelopment
			Atmospheric dispersion from soil to outdoor and indoor air spaces.	Inhalation dust particulates	
	Groundwater	F1 and F2 TRH, VOCs including BTEXN	Volatilisation of contamination from soil and diffusion to indoor air spaces.	Inhalation of vapours from impacted soil	Construction and maintenance workers Marine ecosystems – wetlands to the north and Taylors Arm to the east. Local flora or aquatic fauna
		HMs, TRH, VOCs including BTEXN and PAHs	Interception of water table during excavation or piling. Volatilisation of contamination from groundwater to indoor or outdoor air spaces.	Dermal contact; Ingestion; Inhalation of vapours	
			Migration of dissolved phase impacts in groundwater.	Biota uptake	
		ASS	Excavation / exposure of ASS containing materials	Mobilisation of acidic soils via surface water runoff	

6. Methodology

6.1 Sample, Analysis & Quality Plan (SAQP)

The SAQP ensures that the data collected during the investigations, is representative and provides a robust basis for site assessment decisions. The SAQP for this DSI included the following:

- Data quality objectives, including a summary of the objectives of the ASI;
- Investigation methodology, including a description of intended sampling points, the media to be sampled and details of potential contaminants to be analysed;
- Sampling procedures;
- Field screening methods;
- Analysis Methods;
- Sample handling, preservation and storage; and
- Analytical QA/QC.

6.2 Data Quality Objective (DQO)

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

Table 6-1 Summary of Project Data Quality Objectives

DQO Steps	Details
1. State the Problem Summarise the contamination problem that will require new environmental data, and identify the resources available to resolve the problem; develop a conceptual site model	Characterisation of the site is required as part of a Development Application (DA) to Nambucca Valley Council. Historical information and site inspection identified the potential for contamination to be present in site soil, contributed by various potential sources listed in Section 5.2. In light of the information derived from the available site history information and site observations, a conceptual site model was developed (Section 5).
2. Identify the Goal of the Study (Identify the decisions) Identify the decisions that need to be made on the contamination problem and the new environmental data required to make them	Based on the objectives outlined in Section 1.4 the decisions that need to be made are: - Has the nature, extent and source of any soil, vapour and/or groundwater impacts onsite been defined? - What impact do the site specific, geologic and hydrogeological conditions have on the fate and transport of any impacts that may be identified? - Do the levels of impact warrant further investigation, to enable the vertical and lateral extent of contamination to be delineated, and the risks to identified potential human and/or environmental receptors to be evaluated? - Does the collected data provide sufficient information to allow the selection and design of an appropriate remedial strategy, if necessary?
3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision and specify which inputs require new environmental measurements	Inputs to the decision making process include: - The proposed future land uses (and development concept, if available); - Available site historical information; - Previous investigations; - Any areas of environmental concern, identified during the site inspection prior to intrusive investigations; - National and NSW EPA guidelines endorsed under the <i>Contaminated Land Management Act 1997</i>; - Soil and groundwater sampling and laboratory analysis for potential contaminants to verify the presence of onsite contamination and to evaluate the risks to potential sensitive receptors; and - At the end of the investigation, a decision must be made regarding whether the soils and/or groundwater are suitable for the proposed development, or if additional investigation or remedial works are required to make the site suitable for the proposed use.
4. Define the Boundaries of the Study Specify the spatial and temporal aspects of the environmental media that the data must represent to support decision	Lateral – The boundaries of the study are defined as the sites cadastral boundaries. Vertical – From the existing ground level, fill and natural soils, and to (and including) underlying water-bearing zones. Temporal – Results are valid on the day of data and sample collection and remain valid as long as no changes occur on site or contamination (if present) does not migrate on site or on to the site from off-site sources.

DQO Steps	Details
5. Develop the Analytic Approach (Develop a decision rule) To define the parameter of interest, specify the action level, and integrate previous DQO outputs into a single statement that describes a logical basis for choosing from alternative actions	The decision rules for the investigation were: - What are the characteristics of soil at the site? <i>Soil boreholes will be advanced to natural, sampled and logged to characterise underlying conditions.</i> - What are the characteristics of groundwater at the site? <i>The potential risk to groundwater by onsite potential contaminant sources was considered low. Furthermore, based on the potential contaminants and potential pathways, the risk of contaminants associated with groundwater, to future site occupants is considered low.</i> - Is the site contaminated by historic land use? <i>Soil samples will be analysed for potential contaminants, with the data compared to relevant screening criteria.</i> - Is the site suitable for the proposed land use? <i>If the concentrations of contaminants in the soil are below the relevant human health-based and ecological criteria for the intended land use, then the site will be deemed suitable for the proposed development.</i>
6. Specify Performance or Acceptance Criteria (Specify limits on decision errors) Specify the decision-maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainties in the data	Specific limits for this project are to be in accordance with NEPM, appropriate data quality indicators (DQIs) for assessing the useability of the data and EI standard procedures for field sampling and handling. To assess the useability of the data, pre-determined DQIs for completeness, comparability, representativeness, precision and accuracy were adopted, as presented below in Table 6-2. If any of the DQIs are not met, further assessment will be necessary to determine whether the non-conformance will significantly affect the useability of the data. Corrective actions may include requesting further information from samplers and/or analytical laboratories, downgrading of the quality of the data or alternatively, re-collection of samples.
7. Develop the Detailed Plan for Obtaining Data (Optimise the design for obtaining data) Identify the most resource-effective sampling and analysis design for general data that are expected to satisfy the DQOs	Site history indicates the potential for contamination to exist. To achieve the decision rules, the intrusive investigation included: - Sampling of locations in a grid-based pattern across accessible parts of the site. - An upper soil profile sample will be collected at each borehole location and tested for contaminants of potential concern, to assess the conditions of the fill / top soil layer, and impacts from agricultural activities. Further sampling would also be carried out at deeper soil layers. Samples will be selected based on field observations (including visual and olfactory evidence, as well as soil vapour screening in headspace samples) with consideration of subsurface stratigraphy. - An Acid Sulfate Soils (ASS) assessment was conducted at targeted locations. - Review of the results will be undertaken to determine if further intrusive investigation (i.e. additional sampling) is warranted for the delineation of site contamination.

6.3 Data Quality Indicators

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

Table 6-2 Data Quality Indicators

Data Quality Objective	Data Quality Indicator	Acceptable Range
Accuracy	Field – Trip blank (laboratory prepared) Laboratory – Laboratory control spike and matrix spike	< laboratory limit of reporting (LOR) Prescribed by the laboratories
Precision	Field – Blind replicate and spilt duplicate Laboratory – Laboratory duplicate and matrix spike duplicate	< 30% relative percentage difference (RPD [%]) Prescribed by the laboratories
Representativeness	Field – Trip blank (laboratory prepared) Laboratory – Method blank	< laboratory LOR Prescribed by the laboratories
Completeness	Completion (%)	-

6.4 Sampling Rationale

With reference to the CSM described in **Section 5**, soil and groundwater investigation works were planned in accordance with the following rationale:

- Sampling fill and natural soils from 56 test bore locations, distributed evenly in accessible areas of the site;
- Field screening for ASS by means of pH_f / pH_{fox} analysis at two borehole locations. Soil samples were collected at 0.5m intervals occurring from 0.0 to 4.0 mBGL; and
- Laboratory analysis of representative soil samples for the identified contaminants of potential contaminants.

6.5 Assessment Criteria

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

Table 6-3 Adopted Investigation Levels for Soil and Groundwater

Environmental Media	Adopted Guidelines	Rationale
Soil	NEPC (2013) Soil HILs, HSLs, EILs / ESLs and Management	Soil Health-based Investigation Levels (HILs) <u>Site-wide soils</u> : NEPC (2013) Schedule B1, HIL-A for Residential site with regular access to soils. Soil Health-based Screening Levels (HSLs)

Limits for TRHs	<u>Site-wide basement footprint:</u> NEPC (2013) Schedule B1, HSL-A for Residential site with regular access to soils. Asbestos HSLs The NEPC (2013) HSLs (WADoH (2009)) for asbestos were referred to, noting that soil samples were screened for asbestos on a presence/absence basis. Ecological Investigation / Screening Levels (EILs / ESLs) <u>Setback / Landscaping areas:</u> NEPC (2013) Schedule B(5)c, Soil quality guidelines for arsenic, chromium III, copper, DDT, lead, naphthalene, nickel and zinc. The derived EIL criteria were based on the addition of the most conservative Added Contaminant Limit (ACL) and the Ambient Background Concentration (ACL) for aged soils. For selected petroleum hydrocarbons and TRH fractions, the NEPC (2013) ESLs for protection of terrestrial ecosystems on residential sites were adopted. The EIL for benzo(a)pyrene was sourced from CRC Care (2017) Technical Report No. 39 <i>Risk-based management and remediation guidance for benzo(a)pyrene</i>. Management Limits for Petroleum Hydrocarbons Where the HSLs and ESLs for petroleum hydrocarbons were exceeded, samples were also assessed against the NEPC (2013) <i>Management Limits</i> for the TRH fractions F1 – F4, to assess propensity for phase-separated hydrocarbons (PSH), fire and explosive hazards and adverse effects on buried infrastructure.
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ASSMAC (1998)	Acid Sulfate Soils Assessment Analytical results (Peroxide Oxidisable Sulfur (SPOS) or Total Oxidisable Sulfur (STOS), and Titratable Sulfidic Acidity (TSA) or Total Potential Acidity (TPA)) obtained from quantitative SPOCAS analysis were compared against Action Criteria listed in Table 4.4 of ASSMAC 1998. The soils were assessed for a fine textured soil (clay).
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For the purposes of this investigation, the adopted soil assessment criteria are referred to as the Soil Investigation Levels (SILs) and the adopted groundwater assessment criteria are referred to as the Groundwater Investigation Levels (GILs). SILs and GILs are presented alongside the analytical results in the corresponding summary tables, which are discussed in **Section 8**.

6.6 Soil Investigation

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

Table 6-4 Summary of Soil Investigation Methodology

Activity/Item	Details
Fieldwork	The borehole drilling works were conducted on 17-18 November 2020. All test bores were able to be completed to the target depth or refusal within the natural soil profile.

Activity/Item	Details
Drilling Method	All test bores used for the environmental investigation were advanced using a ute-mounted, mechanical solid flight auger drilling rig to a maximum depth of 4.0 mBGL. The geotechnical investigation advanced eight boreholes to a maximum depth of 5.0 mBGL with a modified truck mounted drill rig. An additional 10 test pits were advanced to a maximum depth of 3.5mBGL with a 3t excavator.
Soil Logging	Soil types encountered during drilling were classified in the field for lithological characteristics and evaluated on a qualitative basis for odour and visual signs of contamination. Soil classifications and descriptions were based on Australian Standard (AS) 1726:2017. Bore logs are presented in Appendix C.
Field Observations (including visual and olfactory signs of potential contamination)	A summary of field observations is provided, as follows: ▪ Top soil / fill occurred to approximately 0.0 – 0.5 mBGL; ▪ Natural Clayey GRAVEL occurred from approximately 0.5-1.5+ mBGL ▪ Natural residual CLAY occurred from approximately 0.5-1.5+ mBGL. ▪ Weathered phyllite bedrock occurred at approximately 3.0 mBGL+
Soil Sampling	▪ Samples were collected by dry grab method (unused, dedicated nitrile gloves) and placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars ▪ For each sample, a small aliquot was placed into a zip-lock bag for in-field screening of VOCs using a portable Photo-ionisation Detector (PID). ▪ For each fill sample, an aliquot was placed in a zip-lock bag for asbestos analysis.
Soil Vapour Screening	Screening for VOCs was performed in the field using a portable PID, fitted with a 10.6eV lamp. The maximum recorded measurement was 2.4 ppm. The low PID readings were consistent with the non-detection of any suspicious odour in the examined soils.
Management of Soil Cuttings	Soil cuttings were used as backfill for completed boreholes.
Decontamination Procedures	Dedicated gloves were used for the collection of each sample. Sampling equipment (i.e. trowel and shovel) was decontaminated between uses by washing in a solution of potable water and Decon 90, and then rinsed with potable water.
Sample Preservation and Transport	Samples were stored in a refrigerated (ice-filled) chest, whilst on-site and in transit to the laboratory (SGS Australia (SGS)). All samples were transported under strict Chain-of-Custody (COC) conditions and COC certificates and laboratory sample receipt documentation were provided to EI for confirmation purposes (Appendix E).
Quality Control and Laboratory Analysis	Soil samples were analysed by SGS for the identified potential contaminants. QA/QC testing comprised a rinsate blank, trip spike / blank samples and intra-laboratory (blind field) duplicates tested by SGS, as well as an inter-laboratory (split field) duplicate tested by Eurofins. All corresponding laboratory analytical reports are presented in Appendix F.

6.7 Field Screening - Acid Sulfate Soils

Two borehole locations (BH112 and BH131) were selected locations for ASS analysis and were sampled in 0.5m increments from ground surface to a maximum depth of 4.0mBGL. The samples were analysed for the potential presence of ASS. using a non-oxidised (pH_F) and

oxidised (pH_{FOX}) pH test. A hydrogen peroxide solution of 30% w/w concentration was used to conduct pH_{FOX} testing. A 1 part soil: 5 part water ratio was used for establishing pH_{F} , and a 1 part soil: 5 part 30% hydrogen peroxide ratio was utilised to test pH_{FOX} . A calibrated pH probe was used to measure resulting pH reading for pH_{F} and pH_{FOX} . Observations of soil reactions were also recorded by the laboratory during the completion of each test. Results of the testing are summarised in **Table 8-3**.

6.8 Depth to Groundwater

Based on the test pits advanced during the geotechnical investigation (EI, 2020a), groundwater, in the eastern portion of the site and in the previously identified drainage lines, was encountered at approximately 2.0-2.5mBGL. Materials inspected in these areas, at or below the observed groundwater strike, contained alluvial quartzose gravels and displayed a weak to moderate sulfuric odour.

7. Data Quality Assessment

The assessment of data quality is defined as the scientific and statistical evaluation of environmental data to determine if they meet the objectives of the project (US EPA, 2006). Data quality assessment includes an evaluation of the compliance of the field sampling and laboratory analytical procedures and an assessment of the accuracy and precision of these data from the laboratory quality control measurements.

The data quality assessment for this DSI included a review of analytical procedures to confirm compliance with established laboratory protocols and an evaluation of the accuracy and precision of the analytical data from a range of quality control measurements, as summarised in **Table 7-1**.

Table 7-1 Quality Control Process

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
Preliminaries	Data Quality Objectives established	Yes	See DQO/DQI
Field work	Suitable documentation of fieldwork observations including borehole logs, sample register, field notes, calibration forms	Yes	See Appendices C / D
Sampling Plan	Use of relevant and appropriate sampling plan (density, type, and location)	Yes	See Section Error! Reference source not found..
	All media sampled and duplicates collected	Yes	Soil vapour not required
	Use of approved and appropriate sampling methods (soil only)	Yes	See methodology
	Selection of soil samples according to field PID readings (where VOCs are present)	Yes	See methodology
	Preservation and storage of samples upon collection and during transport to the laboratory	Yes	See methodology
	Appropriate Rinsate, Field and Trip Blanks taken	Yes	See methodology
	Completed field and analytical laboratory sample COC procedures and documentation	Yes	See laboratory reports
Laboratory	Sample holding times within acceptable limits	Yes	See laboratory QA
	Use of appropriate analytical procedures and NATA-accredited laboratories	Yes	See laboratory report
	LOR/PQL low enough to meet adopted criteria	Yes	See laboratory appendix
	Laboratory blanks	Yes	See laboratory QA/QC

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
	Laboratory duplicates	Yes	See laboratory QA/QC
	Matrix spike/matrix spike duplicates (MS/MSDs)	Yes	See laboratory QA/QC
	Surrogates (or System Monitoring Compounds)	Yes	See laboratory QA/QC
	Analytical results for replicated samples, including field and laboratory duplicates and inter-laboratory duplicates, expressed as Relative Percentage Difference (RPD)	Yes	See QA Tables Appendix H
	Checking for the occurrence of apparently unusual or anomalous results, e.g. laboratory results that appear to be inconsistent with field observations or measurements	Yes	See Appendix F and Appendix H
Reporting	Report reviewed by senior staff to assess project meets desired quality, EPA guidelines and project outcomes.	Yes	See document control

The findings of the data quality assessment are discussed in detail in **Appendix H**. QA/QC policies and DQOs are presented in **Appendix G**.

On the basis of the analytical data validation procedure employed, the overall quality of the soil and groundwater analytical data produced for the site were considered to be of an acceptable standard for interpretive use.

8. Results

8.1 Soil Field Results

8.1.1 Subsurface Conditions

The general site lithology encountered during the drilling of the boreholes may be described as a shallow layer of anthropogenic filling, overlying natural clay and shale at depth. More detailed description is summarised in **Table 8-1** and borehole logs from the works are presented in **Appendix C**.

Table 8-1 Generalised Subsurface Profile

Layer	Description	Approx. depth to top & bottom of layer (mBGL)
Fill / Topsoil	Clayey SILT (SL): low plasticity, brown with trace sub-rounded gravels, dry, no odour.	0.0-0.4
	Silty CLAY (CL): low plasticity, dark brown, moisture > plasticity limit, no odour.	0.0-0.5
	Sandy CLAY (CL): low plasticity, dark brown with sub-angular sand, trace sub-rounded gravels and organic materials, moist, no odour.	0.0-0.7
Natural	Clayey SILT (SL): low plasticity, light brown, dry, no odour	0.4-1.0
	Silty CLAY (CL): medium to low plasticity, light brown, moisture > plasticity limit, no odour.	1.0+
	Clayey GRAVEL (GC): coarse grained, sub-rounded, poorly graded, pale grey with low plasticity clay, moisture > plasticity limit, weak sulfurous odour.	0.8+
	Gravelly CLAY (CL): medium to low plasticity, dark red mottled grey with some sub-rounded quartz pebbles, moisture < plasticity limit, no odour.	0.7+
Bedrock	Weathered phyllite bedrock	3.0+

Notes:

+ Termination depth of borehole

8.1.2 General Observations and PID Results

Soil samples were obtained from the test bores at various depths ranging between 0.0-4.0 mBGL. All examined soil samples were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, asbestos

fragments, ash, and charcoal). Relatively low PID readings were recorded for the field soil headspace samples. This was consistent with the non-detection of any suspicious odour in the examined soils.

8.1.3 Field pH / pH_{fox} Analysis

A total of 16 samples were collected from two targeted locations. Non-oxidised (pH_F) and oxidised (pH_{FOX}) pH testing was conducted on the selected representative samples in the field. Results for pH_F reported pH values ranging from pH 4.05 - pH 6.20, indicating that Potential Acid Sulfate Soils (PASS) could be present at the site (Appendix 1, ASSMAC1998). Results of the testing are summarised in **Table 8-3**.

Results obtained from peroxide-oxidised samples (pH_{FOX}) collected from borehole 'BH131' reported pH values $>pH$ 4, and ranging between pH 5.34 and pH 7.22. All samples collected from this location experienced a drop in pH of <1 pH unit (as shown in **Table 8-3**) which indicates an absence of ASS at this location (Appendix 1, ASSMAC 1998).

Results obtained from peroxide-oxidised samples (pH_{FOX}) collected from borehole 'BH112' reported pH values $<pH$ 4.5, and ranging between pH 1.87 and pH 4.01. All samples collected from this location experienced a drop in pH of >1 pH unit (as shown in **Table 8-3**) which is indicative of the presence of PASS (Appendix 1, ASSMAC 1998).

Based on the findings of the field assessment samples 'BH112_3.5' and 'BH112_4.0' were submitted to a NATA accredited laboratory for Suspension Peroxided Oxidations Combined Acidity and Sulfate (SPOCAS) analysis to further quantify the potential for ASS at the site.

8.1.4 Acid Sulfate Soil Laboratory Analysis

Representative samples were initially selected for analysis by the field screen testing method, to screen for possible presence of actual acid sulfate soil (AASS) and PASS. Field screen testing was completed by EI, according to guidance provide in Section 2 (Appendix 1) of ASSMAC 1998.

Subsequent quantitative laboratory analysis of soil samples was completed by the Suspended Peroxide Oxidation – Combined Acidity & Sulfate Analysis (SPOCAS) methodology, as per the methodology described in AS4969–2008 *Analysis of Acid Sulfate Soil* and NASSG 2018b. Laboratory analyses was conducted on discrete samples using NATA-registered methods by SGS.

8.2 Laboratory Analytical Results

8.2.1 Soil Analytical Results

A summary of the laboratory analytical results for the tested soil samples is presented in **Table 8-2**. A more detailed tabulation with concentrations for individual samples alongside the adopted SILs is presented in **Table B.1** in **Appendix B**.

Table 8-2 Summary of Soil Analytical Results

No. of primary samples	Analyte	Min. Conc. (mg/kg)	Max. Conc. (mg/kg)	Sample locations exceeding investigation levels
Hydrocarbons				
73	F1	<25	<25	None
73	F2	<25	28	None
73	F3	<90	93	None
73	F4	<120	<120	None
73	Benzene	<0.1	<0.1	None
73	Toluene	<0.1	<0.1	None
73	Ethyl benzene	<0.1	<0.1	None
73	Total xylenes	<0.3	<0.3	None
PAHs				
73	Carcinogenic PAHs (as B(a)p TEQ)	<0.3	<0.3	None
73	Total PAH	<0.8	<0.8	None
73	Naphthalene	<0.1	3.6	None
OCPs				
56	Total OCPs	<1	<1	None
OPPs				
56	Total OPPs	<1.7	<1.7	None
PCBs				
56	Total PCBs	<1	<1	None
Metals				
73	Arsenic	<1	330	BH116_03 HIL-A (residential) & Site specific ESLs
73	Cadmium	<0.3	2.7	None
73	Chromium	3.7	29	None
73	Copper	0.7	40	None

No. of primary samples	Analyte	Min. Conc. (mg/kg)	Max. Conc. (mg/kg)	Sample locations exceeding investigation levels
73	Lead	4	100	None
73	Mercury	<0.05	0.24	None
73	Nickel	<0.5	12	None
73	Zinc	<2	150	None
Asbestos				
56	Asbestos	Not detected	Not detected	None

8.2.2 Acid Sulfate Soil Analysis

SPOCAS analysis was conducted on samples 'BH112_3.5 and BH112_4.0'. Analytical results from the acid trail of the analytical procedure reported titratable sulfidic acidity (TSA) concentration below the relevant ASSMAC assessment criteria; however, results obtained for the sulfur trail of the analysis reported SPOS (% w/w S) concentration 0.12 and 0.68 % w/w S, respectively, which is above the action criteria.

Table 8-3 Summary of Laboratory Analytical Results

Sample ID	Sampling Depth (mBGL)	Sampling Date	Soil Type	pH _F	Peroxide pH (pH _{FOX})	pH Difference (pH _F - pH _{FOX})	pH _{KCL}	TPA (as %w/w S)	TSA (as %w/w S)	S _{POS} (as %w/w S)	s-Net Acidity (as %w/w S)
BH112_0.2	0.2-0.3	17/11/2020	Top soil	5.55	4.01	1.54	NA	NA	NA	NA	NA
BH112_0.7	0.7-0.8		Silty CLAY	4.75	3.55	1.2	NA	NA	NA	NA	NA
BH112_1.5	1.5-1.6		Silty CLAY	4.50	3.16	1.34	NA	NA	NA	NA	NA
BH112_2.0	2.0-2.1		Silty CLAY	4.30	3.11	1.19	NA	NA	NA	NA	NA
BH112_2.5	2.5-2.6		Silty CLAY	4.05	3.09	1.04	NA	NA	NA	NA	NA
BH112_3.0	3.0-3.1		Silty CLAY	5.31	2.40	2.91	NA	NA	NA	NA	NA
BH112_3.5	3.5-3.6		Silty CLAY	5.30	1.91	3.39	4.9	0.15	0.11	0.12	0.16
BH112_4.0	4.0-4.1		Sandy CLAY	5.68	1.87	3.81	5.0	0.71	0.68	0.68	0.71
BH131_0.2	0.2-0.3	18/11/2020	Top soil	4.81	6.51	-1.7	NA	NA	NA	NA	NA
BH131_0.7	0.7-0.8		Gravelly CLAY	4.67	7.22	-2.55	NA	NA	NA	NA	NA
BH131_1.5	1.5-1.6		Gravelly CLAY	5.75	6.84	-1.09	NA	NA	NA	NA	NA
BH131_2.0	2.0-2.1		Gravelly CLAY	5.81	5.51	0.30	NA	NA	NA	NA	NA
BH131_2.5	2.5-2.6		Gravelly CLAY	6.20	5.34	0.86	NA	NA	NA	NA	NA
BH131_3.0	3.0-3.1		Gravelly CLAY	6.14	7.01	-0.87	NA	NA	NA	NA	NA
BH131_3.5	3.5-3.6		Gravelly CLAY	6.09	6.84	-0.75	NA	NA	NA	NA	NA
BH131_4.0	4.0-4.1		Gravelly CLAY	5.98	6.97	-0.99	NA	NA	NA	NA	NA
ASSMAC (1998) action criteria				See below	See below	>1 pH unit	-	≥18	≥18	≥0.03	-

Notes:

Criteria exceeded

pH_F ≤ 4, indicates that actual acid sulfate soil are present with sulphides being oxidised in the past resulting in acid soil (and soil pore water) conditions.
pH_F values >4 and <5.5 are acid and may be the result of some previous or limited oxidation of sulfides but is not confirmatory of actual ASS.
If pH_{FOX} is more than one pH unit below the pH_F, it may indicate potential acid sulfate soils.
pH_{FOX} <3 and a strong reaction to peroxide, indicates a high level of certainty of a potential acid sulfate soils.
pH_{FOX} >3 and <=4 is less positive for presence of actual acid sulfate soils and laboratory analyses is need to confirm if sulphides are present.

pHFOX >4 and <=5 is neither positive or negative for presence of actual acid sulfate soils. Laboratory analyses by SPOCAS is need to confirm if oxidisable sulphides are present.
pHFOX >5 and little or no drop in pH from the field value indicates little net acid generating ability. The sulfur trail in the SPOCAS method should be used to check for absence of oxidisable sulfides.

SPOS – Peroxide oxidisable sulfur

pHF – Field pH

pHKCL – Potassium chloride pH

pHFOX – Peroxide oxidised pH

TAA – Titratable actual acidity

ANCE – Excess acid neutralising capacity

NA – Not Analysed

9. Site Characterisation

9.1 Soil Characterisation

In order to conceptualise the site, it has been separated into two areas; the low lying, eastern portion of the site, between the dwelling and Coronation Road and north-eastern corner of the site; and the central-western portion of the site, comprising the undulating rises.

The eastern and northern portion of the site is primarily characterised by the alluvial deposition of sediments and inferred flood zone. The aforementioned alluvial sediments were also observed within the dams / drainage channels between the north-south oriented ridges. During the intrusive investigation, groundwater was encountered at between 2.3-3.0 mBGL in portion of the site.

The top soil / fill material in these areas displayed slightly elevated mercury, lead and zinc when compared the rest of the site. The elevated lead results appear confined to areas in close proximity to the local road, the abiding lead impacts are likely a result of historic use of leaded fuels by local traffic. Traces of mercury were identified in both the top soil and residual soils within the low lying areas of the site. Naturally occurring mercury is associated with parent rocks such as basalt and mica, typical of the Nambucca Beds (Shaanan *et al*, 2013). In addition, the slightly elevated zinc was identified in the top soil and residual clay of the eastern area. The zinc concentrations may be attributed to weathering of parent material with soluble metals mobilising to lower topography; or possible weathering of galvanised materials such as fences, corrugated metal roofing or power poles.

Given that all analytes were below the adopted assessment criteria, the risk to human health and ecological receptors is considered to be low.

The central-western portion of the site is characterised by undulating rises with ridge crests oriented in a north-south direction, occurring from approximately 12.5 – 29.5 mAHD. The regolith at these elevations were observed to contained slightly higher clay content and less quartzose gravels than the lower lying areas of the site.

It is noted that arsenic was detected above the assessment criteria at one location (BH116_0.3) with an additional two sampling locations adjacent the south-western boundary returning results of TRH-F2 and TRH-F3 above the laboratory detection limit. The sampling location BH116 was observed to be in close proximity to a pile of scrap timber. It is likely that the arsenic exceedance is attributed to chromated copper arsenate treated timber weathering / leaching into surrounding soil materials. A 95% upper confidence limit (95-UCL) was calculated for the concentration of arsenic within the fill / top soil across the site which returned a concentration of 42.3 mg/kg (refer to **Appendix K**) indicating that the arsenic exceedance presents low risk to human health and ecological receptors. In addition, the identified arsenic exceedance lies within the proposed Perimeter road – Fire Trail where the material is likely to be removed during the construction of the road.

With regards to the detected TRH fractions, all other analytes associated with fuels / oils, such as BTEX and PAHs, were below the laboratory detection limit across the entire site. It is postulated that the TRH detections are derived from organics, named humic acid containing materials and not anthropogenic sources such as vehicles / plant.

9.2 Review of Conceptual Site Model

Based on investigation findings, the CSM discussed in **Section 5** was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential onsite and offsite receptors. Concentrations of contaminants were identified which indicated accuracy of the model, and adequate characterisation of the site.

The site walkover inspection identified a number of potential contamination sources in the form of storage of waste oil and degraded building materials.

Based on the data obtained during the intrusive investigation, there is an isolated area impacted with arsenic and no widespread contamination from agricultural activities. Given the land setting, in conjunction with the analytical results and field observations, ASS is present in the low lying areas of the site and will require correct management to ensure that ASS does not pose unacceptable risk to future construction nor ecological receptors..

Subject to the findings of the recommended data gap closure investigations in **Section 12**, review of the CSM is recommended.

10. Conclusion

This assessment was conducted to assess the nature and degree of any potential onsite contamination associated with current and former users of the property. The site is located approximately 52.7 km south-west of the Coffs Harbour CBD and is located within the Local Government Area of Nambucca Valley Council (**Figure 1**).

The eastern portion of the site is currently occupied by a single level residential dwelling with an adjacent, dilapidated timber shed building; the remainder of the site is occupied by agricultural land.

The site is currently occupied by a total of three structures, as follows:

- The eastern portion of the site is currently occupied by a single level residential dwelling, comprised of timber / fibre cement walls and a tin roof with suspended timber floor boards;
- A single level, dilapidated, unused dwelling with timber walls and corrugated tin and fibre cement roof with apparent weathering and damage to external walls and footings; and
- A single level shed / barn / storage building with a concrete slab on grade, timber walls and a corrugated tin roof.

Based on the findings from this DSI it was concluded that:

- The site was occupied by agricultural land with a residential dwelling from at least 1930 until present, with a new dwelling erected in approximately 1967;
- The CSM identified the following potential sources of on-site contamination:
 - Fill soils of unknown origin including potential waste buried in excavation pit;
 - Potential on-site use of pesticides across the agricultural portions of the site;
 - Potential storage of chemicals associated with dipping / dredging livestock and vehicle oils;
 - Migration of contaminants onsite from adjacent roads or infrastructure, such as high voltage powerlines; and
 - Exposure of Acid Sulfate Soils.
- Analytical results for the representative soil samples collected from across the site were generally below the adopted acceptance criteria relevant for the proposed residential land use, with the exception of the sample identified as BH116_0.3 which exceeded the human health and ecological assessment criteria. A 95-UCL was completed for the arsenic concentrations found within top soil / fill soil which returned a result of 42.3 mg/kg, which is below the relevant assessment criteria. Furthermore the identified arsenic exceedance lies within the proposed Perimeter road – Fire Trail where the material is likely to be removed during the construction of the road.
- A combination of field pH / pH_{fox} analysis and analytical SPOCAS analysis indicated that PASS is present within the eastern portion of the site.

Based on the above findings and with due regard for the Statement of Limitations (**Section 13**), EI considered that minor localised contamination was present at the site, and the land can be made suitable for the proposed land use subject to the implementation of the recommendations provided in **Section 12**.

11. Recommendations

Based on the findings of this DSI, the following recommendations should be implemented to ensuring the site is made suitable for the proposed development:

- An Acid Sulfate Soils Management Plan (ASSMP) should be prepared in order to prevent any unacceptable risk to construction materials (foundations, piles and services) and ecological receptors; or if the proposed development has the potential to lower the water table it may generate PASS / AASS which would need to be addressed under the ASSMP.
- Any material being removed from the site, including impacted soils, as well as virgin excavated natural materials (VENM), is required to undergo waste classification assessment to inform off-site disposal in accordance the NSW EPA (2014) *Waste Classification Guidelines*;
- Prior to demolition of any site structures, a Hazardous Materials Survey is required; and
- Any material being imported to the site should be assessed for potential contamination in accordance with NSW EPA Guidelines, as being suitable for the intended land use.

12. Statement of Limitations

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

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

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

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

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

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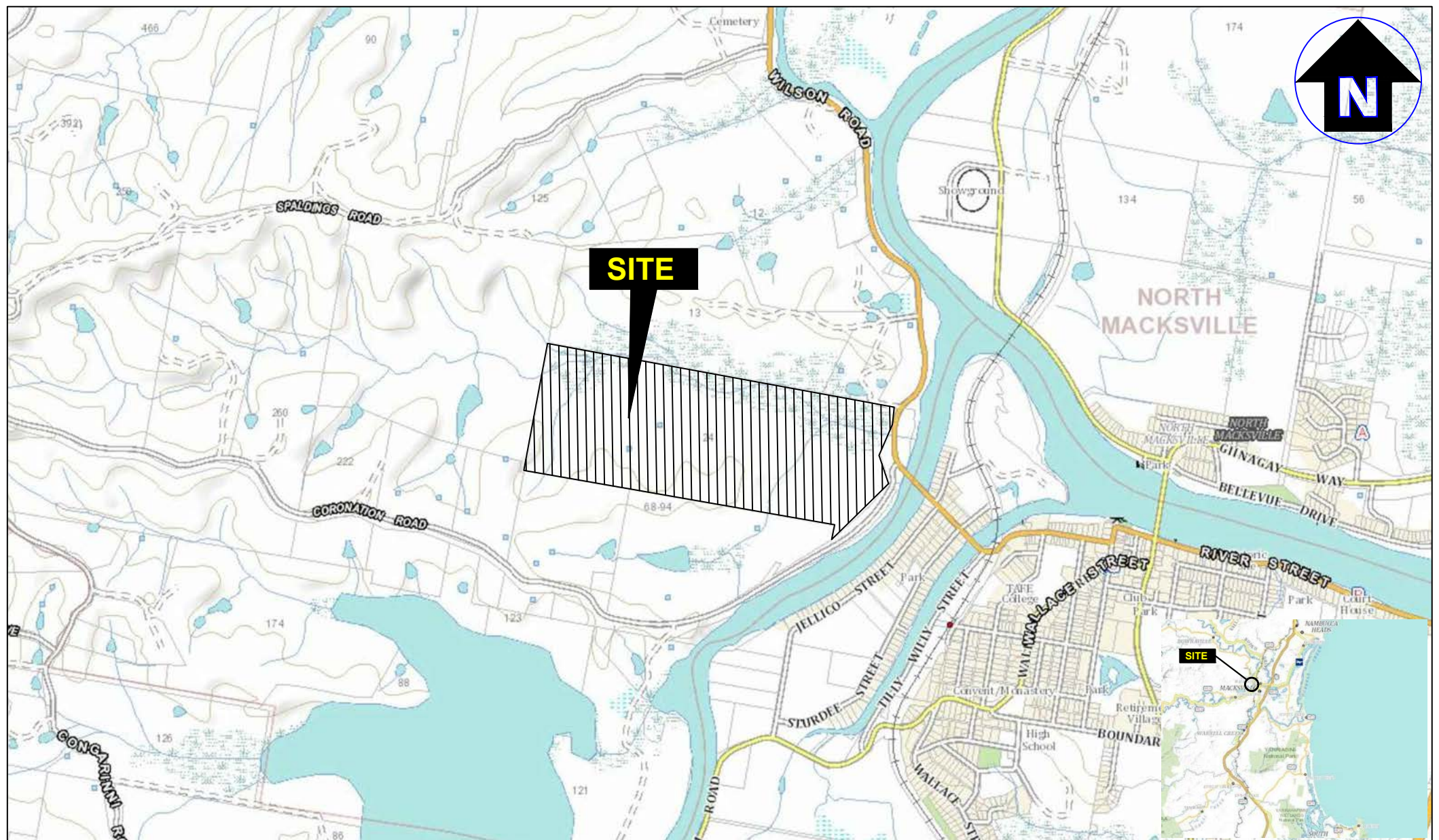
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Abbreviations

ASS	Acid sulfate soils
B(a)P	Benzo(a)Pyrene (a PAH compound), - B(a)P TEQ Toxicity Equivalent Quotient
BH	Borehole
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
COC	Chain of Custody
CVOCs	Chlorinated Volatile Organic Compounds (a sub-set of the VOC analysis suite)
DEC	Department of Environment and Conservation, NSW (see OEH)
DECC	Department of Environment and Climate Change, NSW (see OEH)
DECCW	Department of Environment, Climate Change and Water, NSW (see OEH)
DA	Development Application
DO	Dissolved Oxygen
DP	Deposited Plan
EC	Electrical Conductivity
EPA	Environment Protection Authority
F1	TRH C ₆ – C ₁₀ less the sum of BTEX concentrations (Ref. NEPM 2013, Schedule B1)
F2	TRH >C ₁₀ – C ₁₆ less the concentration of naphthalene (Ref. NEPM 2013, Schedule B1)
FCS	Fibre Cement Sheeting
GIL	Groundwater Investigation Level
GME	Groundwater Monitoring Event
HIL	Health-based Investigation Level
HSL	Health-based Screening Level
km	Kilometres
LNAPL	Light, non-aqueous phase liquid (also referred to as PSH)
DNAPL	Dense, non-aqueous phase liquid
EIL	Ecological Investigation Level
ESL	Ecological Screening Level
m	Metres
mAHD	Metres Australian Height Datum
mBGL	Metres Below Ground Level
mg/L	Milligrams per litre
µg/L	Micrograms per litre
mV	Millivolts
NATA	National Association of Testing Authorities, Australia
NEPC	National Environmental Protection Council
NSW	New South Wales
OEH	Office of Environment and Heritage, NSW (formerly DEC, DECC, DECCW)
PAHs	Polycyclic Aromatic Hydrocarbons
pH	Measure of the acidity or basicity of an aqueous solution
PSH	Phase-separated hydrocarbons (also referred to as LNAPL)
PQL	Practical Quantitation Limit (limit of detection for respective laboratory instruments)
QA/QC	Quality Assurance / Quality Control
SILs	Screening Investigations Levels
SRA	Sample receipt advice (document confirming laboratory receipt of samples)
SWL	Standing Water Level
TDS	Total dissolved solids (a measure of water salinity)
TPH	Total Petroleum Hydrocarbons (superseded term equivalent to TRH)
TRH	Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)
USEPA	United States Environmental Protection Agency

UST	Underground Storage Tank
VOCs	Volatile Organic Compounds (specific organic compounds which are volatile)

Appendix A - Figures





Datum: GDA1994 MGA56 Map Source: Sixmaps NSW, dated 16.08.2020

- Site Boundary
- 100 x 100 m Grid
- Boreholes



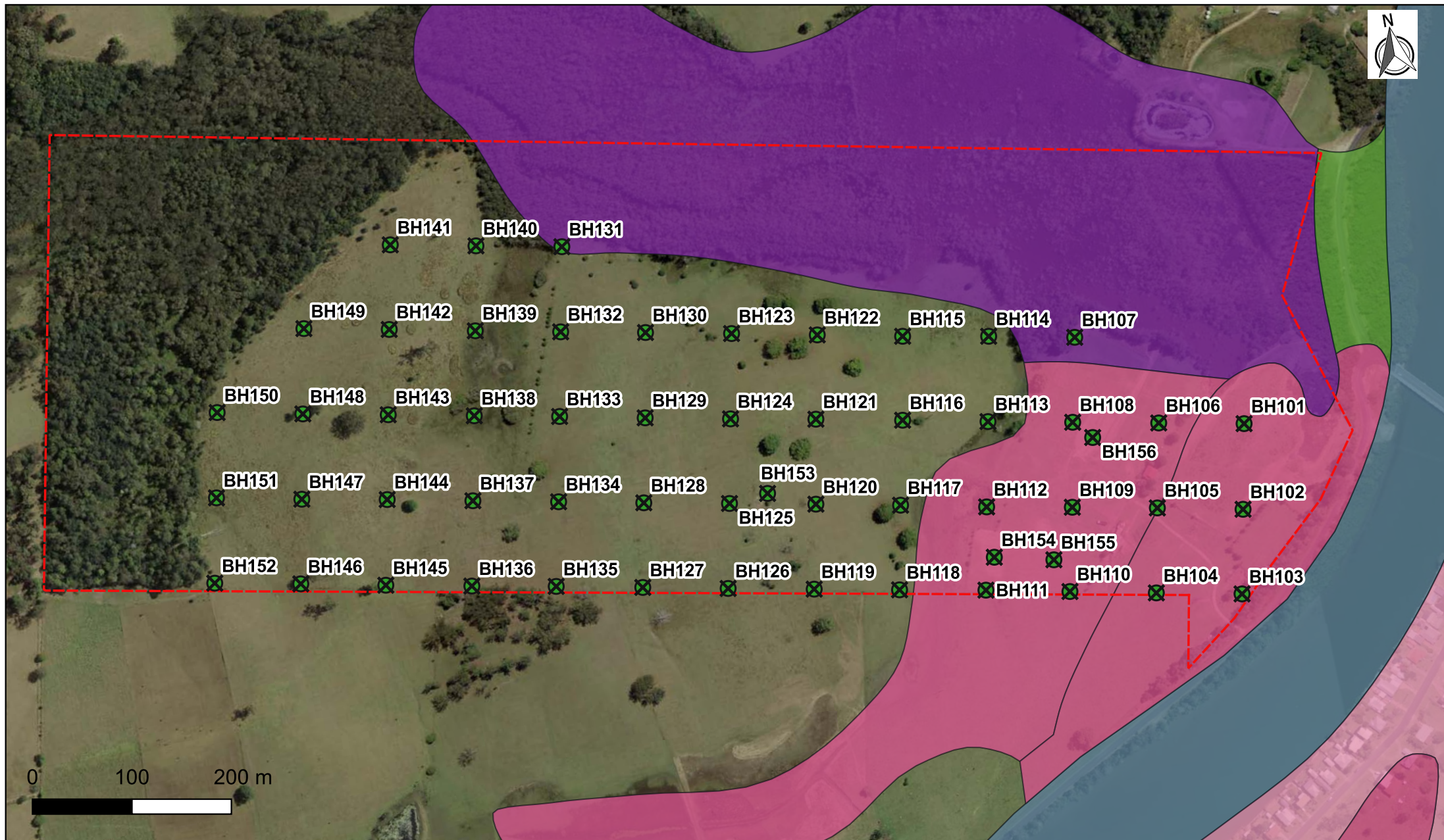
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Drawn:	NA
Approved:	NG
Date:	12/11/2020

Congarinni North Pty Ltd
24 Coronation Road, Congarinni
North NSW
Environmental Sampling Plan

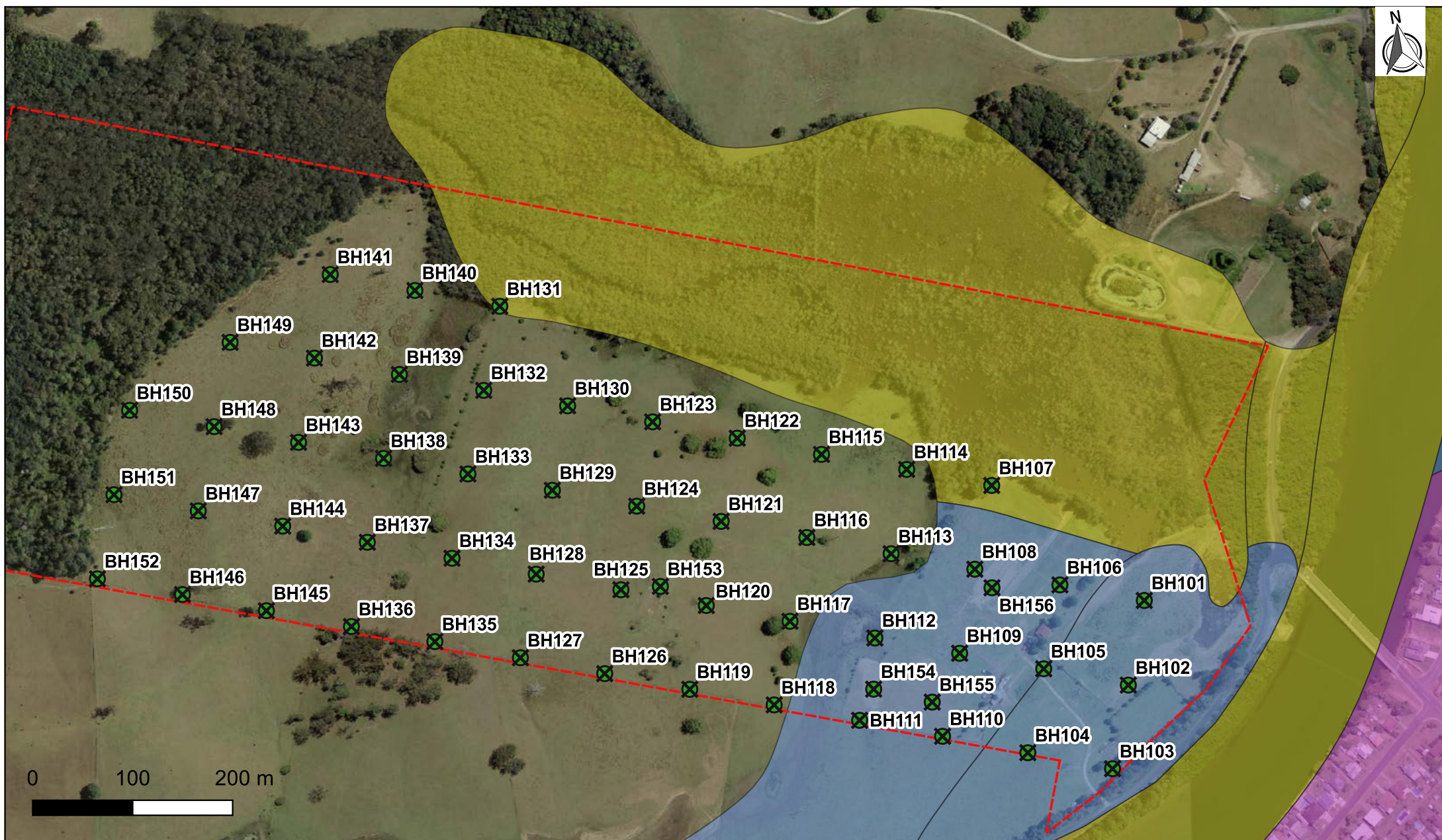
Figure 2

Project: E24901.E02



Datum: GDA1994 MGA56 Map Source: Sixmaps NSW, dated 16.08.2020





Datum: GDA1994 MGA56 Map Source: Sixmaps NSW, dated 16.08.2020

- Site Boundary
- Boreholes
- Aeolian process
- Alluvial process
- Beach process
- Disturbed Terrain
- Estuarine process

Drawn:	NA
Approved:	NG
Date:	14/12/2020

Congarinni North Pty Ltd 24 Coronation Road, Congarinni North NSW Acid Sulfate Soils Depositional Environment

Figure 4
Project: E24901.E02

Appendix B – Tables

Table 1 - Summary of Soil Analytical results

E24901.E02 - Congarinni North

Sample ID	Date of sampling	Material description	Heavy Metals								PAHs			BTEX						TRH				Pesticides		PCBs	Asbestos
			As	Cd	Cr (total)	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as B[a]P TEQ)	Naphthalene	Total PAHs	Benzene	Toluene	Ethylbenzene	o-Xylene	m/p-Xylene	Total Xylenes	F1	F2	F3	F4	OCPs	OPPs	Total	Identification
BH101_03	17.11.2020	Top Soil	13	<0.3	13	17	15	0.16	9.5	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH102_02		Top Soil	12	<0.3	13	15	14	0.12	11	64	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH103_02		Top Soil	12	1.4	14	40	100	0.24	9.1	150	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH104_03		Top Soil	12	<0.3	12	16	14	0.14	9.4	45	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH105_04		Top Soil	12	<0.3	14	19	18	0.20	9.9	50	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH106_03		Top Soil	15	<0.3	13	20	24	0.12	11	45	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH107_03		Top Soil	13	<0.3	17	17	21	0.10	10	41	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH108_03		Top Soil	11	<0.3	13	15	22	0.19	9.9	46	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH109_03		Top Soil	10	<0.3	11	16	19	0.14	12	53	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH110_03		Top Soil	9	<0.3	10	11	13	0.12	7.2	35	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH111_02		Top Soil	9	<0.3	12	12	18	0.11	9.0	40	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH112_02		Top Soil	10	<0.3	13	16	19	0.16	9.1	41	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH113_03		Top Soil	49	0.4	7.7	4.5	10	0.07	3.8	10	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH114_04		Top Soil	10	<0.3	8.7	2.6	8	<0.05	3.5	12	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH115_02		Top Soil	10	<0.3	12	4.2	10	0.08	4.4	8.9	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH116_03		Top Soil	330	2.7	9.8	5.8	12	<0.05	1.2	4.2	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH117_03		Top Soil	18	<0.3	11	4.1	9	0.07	2.8	7.1	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH118_02		Top Soil	4	<0.3	11	7.2	10	0.05	4.2	17	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH119_02		Top Soil	5	<0.3	12	15	9	<0.05	7.9	29	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH120_02		Top Soil	10	<0.3	8.1	7.3	9	<0.05	3.5	12	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH121_02		Top Soil	18	<0.3	12	5.0	9	0.08	2.1	4.9	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH122_02		Top Soil	5	<0.3	12	3.4	8	0.06	2.1	5.1	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH123_02		Top Soil	4	<0.3	10	4.6	7	0.06	2.0	6.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH124_02		Top Soil	6	<0.3	9.9	5.0	7	0.06	2.2	6.1	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH125_01		Top Soil	32	<0.3	16	3.8	10	<0.05	4.9	11	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH126_02		Top Soil	6	<0.3	16	11	10	0.06	4.3	11	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH127_02		Top Soil	7	<0.3	8.5	8.8	8	<0.05	2.4	8.9	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH128_02		Top Soil	13	<0.3	8.7	7.8	9	<0.05	3.3	7.8	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH129_02		Top Soil	8	<0.3	13	10	6	<0.05	2.3	8.6	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH130_02		Top Soil	5	<0.3	12	7.7	5	<0.05	2.5	9.2	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH131_02		Top Soil	2	<0.3	3.3	2.8	4	<0.05	2.3	5.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH132_02		Top Soil	14	<0.3	16	8.3	5	<0.05	1.6	6.2	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	<1	<1.7	<1	No
BH133_02		Top Soil	11	<0.3	8.																						

BH150_0.7	17.11.2020	Natural Silty CLAY	4	<0.3	23	14	4	<0.05	<0.5	8.2	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.		
BH152_0.7		Natural Silty CLAY	7	<0.3	24	13	7	<0.05	1.5	11	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.		
BH153_0.7		Natural Gravelly CLAY	14	<0.3	8.6	3.4	6	0.06	1.4	4.4	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.		
BH155_0.8		Natural Silty CLAY	11	<0.3	12	13	14	0.10	5.8	38	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.		
BH156_0.8		Natural Silty CLAY	8	<0.3	14	28	22	0.12	4.9	35	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.		
Statistical Analysis																													
Maximum concentration			330	2.7	29	40	100	0.24	12	150	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<25	28	93	<120	<1	<1.7	<1	No		
95% UCL - Fill / Top Soil			42.3	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		
95% UCL - Natural Soils			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC		
SILs																													
HIL A - Residential with soil access Table 1A(1)			100	20	100 Cr(VI)	6,000	300	40	400	7,400	3		300											240		1			
HSL D - Commercial / Industrial Soil texture classification – Sand ¹ Table 1A(3)	0 m to <1 m												3	NL	NL	230		260	NL										
	1 m to <2 m												3	NL	NL	NL		370	NL										
	2 m to <4 m												3	NL	NL	NL		630	NL										
	4 m +												3	NL	NL	NL		NL	NL										
Management Limits - Residential, parkland and public open space, coarse grained soil texture ¹ Table 1B(7)																				700	1,000	2500	10,000						
Asbestos contamination HSL-A Bonded ACM (%w/w) Table 7																											0.01		
Asbestos contamination HSL-A Non Bonded / Friable Asbestos (%w/w) Table 7																											0.001		
Asbestos contamination HSL-A All forms of asbestos on soil surface Table 7																											NVA		
Site Specific Ecological Investigation Levels (EILs) / Ecological Screening Levels (ESLs) ²			160		540	160	1800	4	60	480		170		50	85	70			105	180	120	300	2,800		640				

Notes:

Highlighted values indicates concentration exceeds Human Health Based Soil Criteria (HSL / HIL).

Highlighted values indicates concentration exceeds Ecological Based Soil Criteria (ESL / EIL).

Highlighted indicates the adopted criteria exceeded.

The indicated criteria does not address these contaminant parameters

SILs

Soil Investigation levels from Schedule B1 (table reference indicated) of the National Environmental Protection Measure 1999 - Amendment 2013

HSL A

NEPC 2013 'HSL D' Health Based Screening Levels applicable for residential setting (with soil access).

NA

'Not Analysed' i.e. the sample was not analysed.

NC

Not Calculated

NL

'Not Limiting' - The soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical.

ND

Not Detected

NVA

No Visible Asbestos

F1

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

F2

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

F3

(>C16-C34)

F4

(>C34-C40)

1

Coarse Grained soil values were applied, being the most conservative of the material types.



Table H6 - Summary of Soil RPD Data

Sample identification	Description	TRH				BTEX				Heavy Metals							
		F1*	F2**	F3 (>C ₁₆ - C ₃₄)	F4 (>C ₃₄ - C ₄₀)	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate - Soil Investigation																	
BH103_0.7	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	12	1.4	14	40	100	0.24	9.1	150
QD-1	BFD	< 25	< 25	120	< 120	<0.1	<0.1	<0.1	<0.3	14	<0.3	12	18	14	0.19	6.8	40
RPD		0.00	0.00	8.70	0.00	0.00	0.00	0.00	0.00	15.38	129.41	15.38	75.86	150.88	23.26	28.93	115.79
BH110_0.8	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	9	<0.3	13	14	14	<0.05	6.4	30
QD-2	BFD	< 25	< 25	120	< 120	<0.1	<0.1	<0.1	<0.3	11	<0.3	15	17	16	0.05	7.9	37
RPD		0.00	0.00	8.70	0.00	0.00	0.00	0.00	0.00	20.00	0.00	14.29	19.35	13.33	0.00	20.98	20.90
BH121_0.2	Top soil	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	18	<0.3	12	5	9	0.08	2.1	4.9
QD-3	BFD	< 25	< 25	120	< 120	<0.1	<0.1	<0.1	<0.3	15	<0.3	8.3	4.4	7	0.05	2.3	5.1
RPD		0.00	0.00	8.70	0.00	0.00	0.00	0.00	0.00	18.18	0.00	36.45	12.77	25.00	46.15	9.09	4.00
BH142_0.7	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	12	<0.3	26	7.8	4	<0.05	0.6	4.3
QD-4	BFD	< 25	< 25	120	< 120	<0.1	<0.1	<0.1	<0.3	11	<0.3	27	8.7	4	<0.05	0.6	4.7
RPD		0.00	0.00	8.70	0.00	0.00	0.00	0.00	0.00	8.70	0.00	3.77	10.91	0.00	0.00	0.00	8.89
Inter-Laboratory Duplicate - Soil Investigation																	
BH103_0.7	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	12	1.4	14	40	100	0.24	9.1	150
QT-1	BFT	< 25	<50	<100	< 100	<0.2	<0.5	<1	<2	9	<0.4	12	16	16	0.2	6	41
RPD		0.00	NA	9.52	NA	NA	NA	NA	NA	28.57	111.11	15.38	85.71	144.83	18.18	41.06	114.14
BH110_0.8	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	9	<0.3	13	14	14	<0.05	6.4	30
QT-2	BFT	< 25	<50	<100	< 100	<0.2	<0.5	<1	<2	7	<0.4	10	11	11	<0.1	5	22
RPD		0.00	NA	9.52	NA	NA	NA	NA	NA	25.00	NA	26.09	24.00	24.00	NA	24.56	30.77
BH121_0.2	Top soil	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	18	<0.3	12	5	9	0.08	2.1	4.9
QT-3	BFT	< 25	<50	<100	< 100	<0.2	<0.5	<1	<2	13	<0.4	10	5	7	<0.1	3	6
RPD		0.00	NA	9.52	NA	NA	NA	NA	NA	32.26	NA	18.18	0.00	25.00	22.22	35.29	20.18
BH142_0.7	Natural: CLAY	< 25	< 25	110	< 120	<0.1	<0.1	<0.1	<0.3	12	<0.3	26	7.8	4	<0.05	0.6	4.3
QT-4	BFT	< 25	<50	<100	< 100	<0.2	<0.5	<1	<2	15	<0.4	24	9	5	<0.1	<1	4
RPD		0.00	NA	9.52	NA	NA	NA	NA	NA	22.22	NA	8.00	14.29	22.22	NA	50.00	7.23
Trip Spike																	
TS	Soil	-	-	-	-	88%	91%	91%	92%	-	-	-	-	-	-	-	-
Trip Blank																	
TB	Soil	-	-	-	-	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-	-	-
Rinsate Blanks																	
QR1	De-ionised water	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.3	<0.5	<1	<1	<0.05	<0.5	<5

NOTE: All results are reported in mg/kg (soil) or µg/L (water)

66.67	RPD calculated by halving detection limit exceeds 30-50% range referenced from AS4482.1 (2005)
52.87	RPD exceeds 30-50% range referenced from AS4482.1 (2005)

Appendix C – Borehole Logs

Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.40	BH101_0.3-0.4 ES PID = 0.3 ppm			CL	Clayey SILT; low plasticity, light brown, with trace angular sand, no odour.	D	-	NATURAL	
			1.00	BH101_0.8-0.9 ES PID = 0.9 ppm				From 1.0 m, light brown mottled grey, no odour.	M	-		
			1.50					Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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

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 Position Refer to Figure 2
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Contractor Hartgeo Drilling Pty Ltd
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 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
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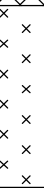
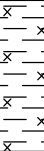
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.30	BH102_0.2-0.3 ES PID = 0.9 ppm			CL	Clayey SILT; low plasticity, light brown, no odour.	D	-	NATURAL	
			0.80				GC	Clayey GRAVEL; coarse grained, sub-rounded gravels, poor graded, pale grey, with low plasticity clay, with sulfur odour.	M (>PL)	-		
			1.50	BH102_1.2-1.3 ES PID = 1.2 ppm				Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Sheet 1 OF 1
 Date Started 17/11/20
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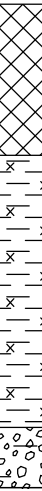
Drilling				Sampling		Field Material Description									
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS			
AD/T	-	GWNE	0.0		BH103_0.2-0.3 ES PID = 1.3 ppm			-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL			
			0.40												
			0.5					BH103_0.7-0.8 ES PID = 0.2 ppm			CL	Clayey SILT; low plasticity, light brown, no odour.	D	-	NATURAL
			1.00												
			1.50					CL-CI	Silty CLAY; low to medium plasticity, light brown, no odour.	M	-				
			1.5	1.50					Borehole Terminated at 1.50 mBGL; Target Depth Reached.						
			2.0												
			2.5												
			3.0												
			3.5												
			4.0												
			4.5												
			5.0												

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Sheet 1 OF 1
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Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	18/11/20	0.0		BH104_0.3-0.4 ES PID = 0.4 ppm BH104_0.8-0.9 ES PID = 0.7 ppm			-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	M	-	TOPSOIL
			0.50	CL				Silty CLAY; low plasticity, brown, no odour.	M	-	NATURAL	
			1.40	GC				Clayey GRAVEL; coarse, sub-rounded gravels, poor graded, pale grey, with low plasticity clay, with sulfur odour.	W	-		
			1.60	Borehole Terminated at 1.60 mBGL; Target Depth Reached.								
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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

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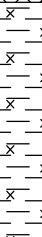
Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Silty CLAY; low plasticity, dark brown, with trace rounded gravels, no odour.				TOPSOIL
			0.5		BH105_0.4-0.5 ES PID = 0.6 ppm				M	-			
			0.80										
			1.0		BH105_1.0-1.1 ES PID = 1 ppm			CL	Silty CLAY; low plasticity, brown, no odour.	M	-		NATURAL
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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

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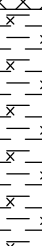
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0	0.50	BH106_0.3-0.4 ES PID = 0.1 ppm			-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	D	-	TOPSOIL
			CL-CI					Silty CLAY; low to medium plasticity, light brown mottled grey, no odour.	M	-	NATURAL	
			1.30		BH106_0.8-0.9 ES PID = 0.1 ppm				Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	.	GWNE	0.0	0.50	BH107_0.3-0.4 ES PID = 0.1 ppm			-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	D	-	TOPSOIL
			CL-CI					Silty CLAY; low to medium plasticity, light brown mottled grey, no odour.	M	-	NATURAL	
			1.30	BH107_0.8-0.9 ES PID = 0.1 ppm				Borehole Terminated at 1.30 mBGL; Target Depth Reached.				
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	M	-	TOPSOIL
			0.5	0.50	BH108_0.3-0.4 ES PID = 0.4 ppm		CL-CI	Silty CLAY; low to medium plasticity, light brown, no odour.			NATURAL	
			1.0		BH108_0.8-0.9 ES PID = 0.3 ppm				M	-		
			1.5	1.50					Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
Location 24 Coronation Road, Congarinni North NSW
Position Refer to Figure 2
Job No. E24901.E02
Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
Drill Rig Solid Flight Auger Drill
Inclination -90°

Sheet 1 OF 1
Date Started 17/11/20
Date Completed 17/11/20
Logged JT Date: 17/11/20
Checked Date:

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0					-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	M	-		TOPSOIL
			0.40	BH109_0.3-0.4 ES PID = 0.9 ppm			CL-CI	Silty CLAY; low to medium plasticity, grey mottled orange, no odour.				NATURAL	
			0.5		BH109_0.8-0.9 ES PID = 0.2 ppm					M	-		
			1.0										
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	M	-	TOPSOIL
			0.5	BH110_0.3-0.4 ES PID = 1.9 ppm								
				BH110_0.8-0.9 QD2/QT2 PID = 2.1 ppm		CL	Clayey SILT; low plasticity, light brown, no odour.	M	-	NATURAL		
			1.70						Borehole Terminated at 1.70 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.40	BH111_0.2-0.3 ES PID = 1.1 ppm								
			0.5				CL	Clayey SILT; low plasticity, light brown, no odour.			NATURAL	
			1.0		BH111_0.7-0.8 ES PID = 0.9 ppm					D	-	
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.30	BH112_0.2-0.3 ES PID = 0.9 ppm			CL-CI	Silty CLAY; low to medium plasticity, grey mottled orange, no odour.			NATURAL	
			0.5									
			1.0	BH112_0.7-0.8 ES PID = 0.2 ppm								
			1.30					From 1.3 m, grey mottled dark red, no odour.				
			1.5									
			2.0							M (<PL)	-	
			2.5									
			3.0									
			3.5									
			3.80					CL	Sandy CLAY; low plasticity, dark grey, trace sub-rounded, pebbles, wet, no odour.	M (>PL)	-	
			4.0									
			4.50						Borehole Terminated at 4.50 mBGL; Target Depth Reached.			
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, with trace sub-rounded quartz gravels, no odour.	D	-	TOPSOIL
			0.70		BH113_0.3-0.4 ES PID = 1.3 ppm							
			1.0		BH113_1.0-1.1 ES PID = 0.3 ppm		CL-CI	Silty CLAY; low to medium plasticity, pale yellow mottled grey, no odour.	D	-	NATURAL	
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with some low plasticity clay and trace sub-rounded quartz gravels, no odour.	M	-	TOPSOIL
			0.5		BH114_0.4-0.5 ES PID = 1.1 ppm							
			0.70									
			1.0		BH114_1.0-1.1 ES PID = 0.2 ppm			CL-CI	Gravelly CLAY; low to medium plasticity, dark red mottled grey, with some sub-rounded quartz pebbles, no odour.	M (<PL)	-	NATURAL
			1.5									
			1.70						Borehole Terminated at 1.70 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

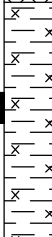
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with some low plasticity clay and trace sub-rounded quartz gravels, no odour.	M	-	TOPSOIL
			0.40	BH115_0.2-0.3 ES PID = 0.9 ppm			CL-CI	Gravelly CLAY; low to medium plasticity, dark red mottled grey, with some sub-rounded quartz pebbles, no odour.			NATURAL	
			1.50	BH115_0.8-0.9 ES PID = 0.4 ppm				Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH116_0.3-0.4 ES PID = 1.3 ppm			-	TOPSOIL: Clayey SILT; low plasticity, brown, with some low plasticity clay and trace sub-rounded quartz gravels, no odour.	M	-	TOPSOIL
			0.5				CL-CI	Silty CLAY; low to medium plasticity, light brown mottled grey, no odour.	M (<PL)	-	NATURAL	
			1.0		BH116_0.8-0.9 ES PID = 1.9 ppm							
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-		TOPSOIL
			0.5	0.50	BH117_0.3-0.4 ES PID = 0.9 ppm								
					BH117_0.8-0.9 ES PID = 1.3 ppm								
			1.0					CL-Cl	Silty CLAY; low to medium plasticity, light brown mottled grey, with trace sub-rounded quartz gravels, no odour.	M (<PL)	-		NATURAL
			1.5	1.60					Borehole Terminated at 1.60 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

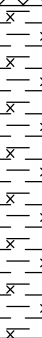
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.30	BH118_0.2-0.3 ES PID = 1.4 ppm			CL-CI	Silty CLAY; low to medium plasticity, dark brown mottled orange, with trace sub-rounded gravels, no odour.			NATURAL	
			0.5		BH118_0.7-0.8 ES PID = 0.2 ppm					M (<PL)	-	
			1.0									
			1.30									
			1.5						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling					Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.40	BH119_0.2-0.3 ES PID = 1.7 ppm			-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded quartz gravels, no odour.	D	-	TOPSOIL
			0.5		BH119_0.7-0.8 ES PID = 0.1 ppm			CL-Cl	Silty CLAY; low to medium plasticity, pale yellow mottled grey, with trace sub-rounded quartz pebbles, no odour.	M (<PL)	-	NATURAL
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION		MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL	
			0.40	BH120_0.2-0.3 ES PID = 1.3 ppm			CL-CI	Gravelly CLAY; low to medium plasticity, dark red mottled grey, with some sub-rounded quartz pebbles, no odour.			NATURAL		
			1.70	BH120_0.7-0.8 ES PID = 0.3 ppm									
			2.0						Borehole Terminated at 1.70 mBGL; Target Depth Reached.				
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0					CL	Clayey SILT; low plasticity, light brown, no odour.	D	-		NATURAL
			0.40	BH121_0.2-0.3 QD3/QT3 PID = 0.4 ppm			CL-CI	Silty CLAY; low to medium plasticity, light brown mottled grey, with trace sub-rounded quartz gravels and pebbles, no odour.					
			0.5		BH121_0.7-0.8 ES PID = 0.2 ppm					D	-		
			1.0										
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

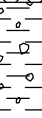
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark brown, no odour.	D	-	FILL
			0.40		BH123_0.2-0.3 ES PID = 0.4 ppm							
			0.5		BH123_0.7-0.8 ES PID = 0.3 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	M (<PL)	-	NATURAL
			1.0									
			1.40									
			1.5						Borehole Terminated at 1.40 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH124_0.2-0.3 ES PID = 0.4 ppm			-	FILL: Gravelly SILT; low plasticity, dark brown, no odour.	D	-	FILL
			0.5	CL				Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	D	-	NATURAL	
			0.90		BH124_0.7-0.8 ES PID = 0.2 ppm					Borehole Terminated at 0.90 mBGL; Target Depth Reached.		
			1.0									
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0						FILL: Clayey SILT; low plasticity, dark red, no odour.	D	FILL
			0.20		BH125_0.1-0.2 ES PID = 0.5 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	-	NATURAL
			0.5								
			1.0		BH125_0.7-0.8 ES PID = 0.2 ppm					D	
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.		
			2.0								
			2.5								
			3.0								
			3.5								
			4.0								
			4.5								
			5.0								

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded quartz gravels, no odour.	M	-	TOPSOIL
			0.30	BH126_0.2-0.3 ES PID = 0.7 ppm			CL-CI	Gravelly CLAY; low to medium plasticity, dark red mottled grey, with some sub-rounded quartz pebbles, no odour.			NATURAL	
				BH126_0.7-0.8 ES PID = 1.1 ppm					M (<PL)	-		
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40	BH127_0.2-0.3 ES PID = 0.1 ppm								
			0.5	BH127_0.7-0.8 ES PID = 0.8 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	D	-	NATURAL	
			1.0	1.10					Borehole Terminated at 1.10 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40	BH128_0.2-0.3 ES PID = 0.2 ppm								
			0.5	BH128_0.7-0.8 ES PID = 0.9 ppm		CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	D	-	NATURAL		
			1.0									
			1.20						Borehole Terminated at 1.20 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.40	BH129_0.2-0.3 ES PID = 0.2 ppm			-	FILL: Gravelly SILT; low plasticity, dark brown, no odour.	D	-	FILL
			CL					Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	M (<PL)	-	NATURAL	
			1.40					Borehole Terminated at 1.40 mBGL; Target Depth Reached.				
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark brown, no odour.	D	-	FILL
			0.30	BH130_0.2-0.3 ES PID = 0.3 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.			NATURAL	
				BH130_0.7-0.8 ES PID = 0.1 ppm					M (<PL)	-		
			1.0	1.10					Borehole Terminated at 1.10 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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 Date Completed 17/11/20
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 Checked Date:

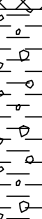
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40	BH131_0.2-0.3 ES PID = 0.3 ppm								
			0.5				CL	Gravelly CLAY; low plasticity, brown, with some rounded gravels, trace rounded pebbles, no odour.	M	-	NATURAL	
				BH131_0.7-0.8 ES PID = 2.4 ppm								
			1.0									
			1.20			CL- CL	Gravelly CLAY; low to medium plasticity, dark red, with rounded pebbles and cobbles, no odour.					
			1.5	BH131_1.5-1.6 ES PID = 2.1 ppm								
			2.0	BH131_2.0-2.1 ES PID = 1.9 ppm								
			2.20									
			2.5	BH131_2.4-2.5 ES PID = 1.6 ppm								
3.0	BH131_3.0-3.1 ES PID = 1.7 ppm											
3.5												
4.0	BH131_4.0-4.1 ES											
4.20												
			4.5						Borehole Terminated at 4.20 mBGL; Target Depth Reached.			

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

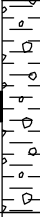
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH134_0.2-0.3 ES PID = 1.3 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.5					CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	M (<PL)	-	NATURAL
			1.20			BH134_0.7-0.8 ES PID = 0.9 ppm			Borehole Terminated at 1.20 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

Drilling					Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH135_0.2-0.3 ES PID = 0.1 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40									
			0.5		BH135_0.7-0.8 ES PID = 0.8 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.	D	-	NATURAL
			1.0	1.10					Borehole Terminated at 1.10 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH136_0.3-0.4 ES PID = 0.4 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-		FILL
			0.5	0.60						Borehole Terminated at 0.60 mBGL; Auger refusal on rock			
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

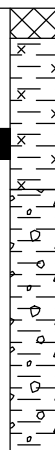
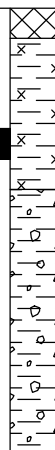
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH137_0.2-0.3 ES PID = 0.4 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40				CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, no odour.			NATURAL	
			0.5		BH137_0.7-0.8 ES PID = 0.1 ppm					D	-	
			1.0									
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.10	BH138_0.4-0.5 ES PID = 1.8 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL	NATURAL
			CL	Silty CLAY; low plasticity, grey, no odour.				M (>PL)	-				
			CL-CI	Gravelly CLAY; low to medium plasticity, dark red mottled grey, with some sub-rounded quartz pebbles, no odour.									
			W	-									
			1.5	1.50					Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	M	-	FILL
			0.50	BH139_0.3-0.4 ES PID = 1.3 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, with trace rounded cobbles, no odour.			NATURAL	
				BH139_0.8-0.9 ES PID = 0.7 ppm					W	-		
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	M	-	FILL
			0.20	BH140_0.1-0.2 ES PID = 1 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels, with trace rounded pebbles and some rounded cobbles, no odour.			NATURAL	
			0.5		BH140_0.6-0.7 ES PID = 1.3 ppm					W	-	
			1.0									
			1.30									
			1.5						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
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Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Clayey SILT; low plasticity, dark red, with some sub-rounded quartz gravels, no odour.	D	-	FILL
			0.30	BH141_0.2-0.3 ES PID = 0.9 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange mottled grey, with some sub-rounded quartz gravels, no odour.			NATURAL	
				BH141_0.7-0.8 ES PID = 1.5 ppm					M (<PL)	-		
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

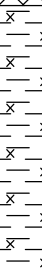
Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-		FILL
			0.30	BH142_0.2-0.3 ES PID = 0.7 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange, with some rounded gravels and trace rounded cobbles, no odour.				NATURAL	
			0.5										
			1.0		BH142_0.7-0.8 QD4/QT4 PID = 1.1 ppm					D	-		
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.				
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
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Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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 Date Completed 18/11/20
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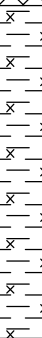
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0	0.40	BH143_0.2-0.3 ES PID = 1.1 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, with sub-rounded quartz gravels, no odour.	D	-	FILL
			0.5		BH143_0.7-0.8 ES PID = 0.9 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange, with some rounded gravels and trace rounded cobbles, no odour.	D	-	NATURAL
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

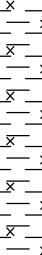
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.40	BH144_0.2-0.3 ES PID = 0.7 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.5		BH144_0.7-0.8 ES PID = 1.2 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange, no odour.	D	-	NATURAL
			1.5	1.50					Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH145_0.1-0.2 ES PID = 0.1 ppm			-	FILL: Clayey SILT; low plasticity, dark red, with trace sub-rounded quartz gravels, no odour.	D	-	FILL
			0.30									
			0.5		BH145_0.6-0.7 ES PID = 0.1 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange, no odour.			NATURAL
1.0												
			1.20						Borehole Terminated at 1.20 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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 Date Completed 18/11/20
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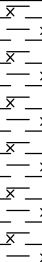
Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH146_0.1-0.2 ES PID = 0.9 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-		FILL
			0.30				CL-CI	Silty CLAY; low to medium plasticity, orange, no odour.			NATURAL		
			0.5		BH146_0.6-0.7 ES PID = 1.4 ppm				D	-			
			1.0	1.00					Borehole Terminated at 1.00 mBGL; Target Depth Reached.				
			1.5										
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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 Logged JT Date: 18/11/20
 Checked Date:

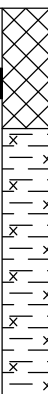
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0		BH147_0.1-0.2 ES PID = 1.1 ppm			-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.30									
			0.5		BH147_0.6-0.7 ES PID = 1.1 ppm			CL-CI	Silty CLAY; low to medium plasticity, orange mottled yellow, no odour.	D	-	NATURAL
1.0												
			1.20						Borehole Terminated at 1.20 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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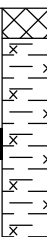
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.40	BH148_0.2-0.3 ES PID = 0.3 ppm		-	FILL: Gravelly SILT; low plasticity, dark red, with trace rounded gravels, no odour.	D	-	FILL	
			CL-CI				Silty CLAY; low to medium plasticity, orange mottled yellow, no odour.	D	-	NATURAL		
			1.30					Borehole Terminated at 1.30 mBGL; Target Depth Reached.				
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
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Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0	0.10	BH149_0.4-0.5 ES PID = 1.4 ppm		CL-CI	-	FILL/TOPSOIL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	-	FILL/TOPSOIL
			Silty CLAY; low to medium plasticity, pale yellow mottled grey, with trace rounded gravels, no odour.	M (<PL)					-	-	NATURAL		
			0.5										
			0.80						Borehole Terminated at 0.80 mBGL; Target Depth Reached.				
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										
			3.5										
			4.0										
			4.5										
			5.0										

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0					-	FILL: Clayey SILT; low plasticity, dark red, with trace rounded gravels, no odour.	M	-	FILL
			0.40	BH150_0.2-0.3 ES PID = 0.7 ppm								
			0.5	BH150_0.7-0.8 ES PID = 2.3 ppm								NATURAL
			1.0									
			1.30									
			1.5						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T		GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40	BH151_0.2-0.3 ES PID = 0.9 ppm								
			0.5			CL-CI	Silty CLAY; low to medium plasticity, orange mottled yellow, no odour.	M (<PL)	-	NATURAL		
			1.0		BH151_0.7-0.8 ES PID = 2.5 ppm							
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 18/11/20
 Date Completed 18/11/20
 Logged JT Date: 18/11/20
 Checked Date:

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.40	BH152_0.2-0.3 ES PID = 0.4 ppm								
			0.5		BH152_0.7-0.8 ES PID = 1.9 ppm			CL-Cl	Silty CLAY; low to medium plasticity, orange mottled pale yellow, no odour.	M (<PL)	-	NATURAL
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
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 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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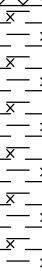
Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	FILL: Gravelly SILT; low plasticity, dark red, no odour.	D	-	FILL
			0.20	BH153_0.1-0.2 ES PID = 0.5 ppm			CL	Gravelly CLAY; low plasticity, brown, with sub-rounded quartz gravels and some fine to medium grained sand, no odour.			NATURAL	
			0.5		BH153_0.7-0.8 ES PID = 0.2 ppm					D	-	
			1.0									
			1.50						Borehole Terminated at 1.50 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
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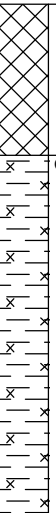
Drilling					Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	-	GWNE	0.0	0.40	BH154_0.2-0.3 ES PID = 2 ppm			-	TOPSOIL: Clayey SILT; low plasticity, brown, with trace sub-rounded gravels, no odour.	D	-	TOPSOIL
			0.5		BH154_0.7-0.8 ES PID = 0.2 ppm			CL-CI	Silty CLAY; low to medium plasticity, grey mottled orange, no odour.	M (<PL)	-	NATURAL
			1.30						Borehole Terminated at 1.30 mBGL; Target Depth Reached.			
			1.5									
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
 Date Completed 17/11/20
 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0		BH155_0.3-0.4 ES PID = 1.1 ppm BH155_0.8-0.9 ES PID = 0.2 ppm			-	TOPSOIL: Silty CLAY; low plasticity, dark brown, with trace rounded gravels, no odour.	M	-	TOPSOIL
			0.50	CL-CI				Silty CLAY; low to medium plasticity, grey mottled orange, no odour.			NATURAL	
			1.70									
			2.0						Borehole Terminated at 1.70 mBGL; Target Depth Reached.			
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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Project Detailed Site Investigation
 Location 24 Coronation Road, Congarinni North NSW
 Position Refer to Figure 2
 Job No. E24901.E02
 Client Congarinni North Pty Ltd

Contractor Hartgeo Drilling Pty Ltd
 Drill Rig Solid Flight Auger Drill
 Inclination -90°

Sheet 1 OF 1
 Date Started 17/11/20
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 Logged JT Date: 17/11/20
 Checked Date:

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METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/T	-	GWNE	0.0					-	TOPSOIL: Silty CLAY; low plasticity, dark brown, no odour.	M	-	TOPSOIL
			0.40	BH156_0.3-0.4 ES PID = 0.9 ppm								
			0.5		BH156_0.8-0.9 ES PID = 0.1 ppm			CL-CI	Silty CLAY; low to medium plasticity, light brown mottled grey, no odour.	M	-	NATURAL
			1.0									
			1.5									
			1.70						Borehole Terminated at 1.70 mBGL; Target Depth Reached.			
			2.0									
			2.5									
			3.0									
			3.5									
			4.0									
			4.5									
			5.0									

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

Appendix D – Field Data Sheets and Calibration Certificates

CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI PID02 ☒ OR 592-901345 - EI PID03 ☐

Instrument Conditions: Good

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: Cyl: 102

This PID has been calibrated to Isobutylene gas with the span concentration displayed as

100 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 7250 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Signed: [Signature]

Date: 17.12.20

Time: 08:15

Appendix E – Chain of Custody and Sample Receipt Forms

Sheet <u>1</u> of <u>7</u>						Site: <u>24 COCONATION ROAD,</u>		Project No:													
						COUGALUMI NORTH NSW		EG0901													
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		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHS OCP/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHS	HM A /TRH/BTEX	BTEx	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	TCLP HM ^a / PAH	Comments
			Date	Time																	
BH101-0.3	1	J, ZLB	19.11.20	AM	X	X	X	X													
102-0.2	2				X			X													
103-0.2	3				X			X													
104-0.3	4				X			X													
105-0.4	5				X			X													
106-0.3	6				X			X													
107-0.3	7				X			X													
108-0.3	8				X			X													
109-0.3	9				X			X													
110-0.3	10				X			X													
110-0.2	11				X			X													
112-0.2	12				X			X													
Container Type: J= solvent washed, acid rinsed, Teflon sealed, glass jar S= solvent washed, acid rinsed glass bottle P= natural HDPE plastic bottle VC= glass vial, Teflon Septum ZLB = Zip-Lock Bag					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.																
Sampler's Name (EI): <u>J. Thomas</u>					Received by (SGS): <u>Saba</u>																
Date: <u>20.11.20</u>					Date: <u>20.11.20</u>																
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>																
Print: <u>J. Thomas</u>					Print: <u>Saba</u>																
Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au					Report with EI Waste Classification Table ☐																
Important: Please e-mail laboratory results to: lab@eiaustralia.com.au					Sampler's Comments: - Hold all samples wet - listed on CoC - forward QT-1, QT-2, QT-3 \$ QT-4 to Enriwale																



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Contact Jordan Thomas
Client EIA AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email Jordan.Thomas@eiaustralia.com.au

Project **E24901 24 Coronation Road, Congarinni No**
Order Number **E24901**
Samples 83

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 Fri 20/11/2020
Report Due Fri 27/11/2020
SGS Reference **SE213894**

SUBMISSION DETAILS

This is to confirm that 83 samples were received on Friday 20/11/2020. Results are expected to be ready by COB Friday 27/11/2020. Please quote SGS reference SE213894 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	82 Soil, 1 Water
Date documentation received	20/11/2020	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	6.5°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

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

35 soil and 1 water samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

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	BH101_0.3	29	14	26	11	7	10	11	7
002	BH102_0.2	29	14	26	11	7	10	11	7
003	BH103_0.2	29	14	26	11	7	10	11	7
004	BH104_0.3	29	14	26	11	7	10	11	7
005	BH105_0.4	29	14	26	11	7	10	11	7
006	BH106_0.3	29	14	26	11	7	10	11	7
007	BH107_0.3	29	14	26	11	7	10	11	7
008	BH108_0.3	29	14	26	11	7	10	11	7
009	BH109_0.3	29	14	26	11	7	10	11	7
010	BH110_0.3	29	14	26	11	7	10	11	7
011	BH111_0.2	29	14	26	11	7	10	11	7
012	BH112_0.2	29	14	26	11	7	10	11	7
013	BH113_0.3	29	14	26	11	7	10	11	7
014	BH114_0.4	29	14	26	11	7	10	11	7
015	BH115_0.2	29	14	26	11	7	10	11	7
016	BH116_0.3	29	14	26	11	7	10	11	7
017	BH117_0.3	29	14	26	11	7	10	11	7
018	BH118_0.2	29	14	26	11	7	10	11	7
019	BH119_0.2	29	14	26	11	7	10	11	7
020	BH120_0.2	29	14	26	11	7	10	11	7
021	BH121_0.2	29	14	26	11	7	10	11	7
022	BH122_0.2	29	14	26	11	7	10	11	7
023	BH123_0.2	29	14	26	11	7	10	11	7
024	BH124_0.2	29	14	26	11	7	10	11	7

CONTINUED OVERLEAF

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

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

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

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

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

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
025	BH125_0.1	29	14	26	11	7	10	11	7
026	BH126_0.2	29	14	26	11	7	10	11	7
027	BH127_0.2	29	14	26	11	7	10	11	7
028	BH128_0.2	29	14	26	11	7	10	11	7
029	BH129_0.2	29	14	26	11	7	10	11	7
030	BH130_0.2	29	14	26	11	7	10	11	7
031	BH131_0.2	29	14	26	11	7	10	11	7
032	BH132_0.2	29	14	26	11	7	10	11	7
033	BH133_0.2	29	14	26	11	7	10	11	7
034	BH134_0.2	29	14	26	11	7	10	11	7
035	BH135_0.2	29	14	26	11	7	10	11	7
036	BH136_0.3	29	14	26	11	7	10	11	7
037	BH137_0.2	29	14	26	11	7	10	11	7
038	BH138_0.4	29	14	26	11	7	10	11	7
039	BH139_0.3	29	14	26	11	7	10	11	7
040	BH140_0.1	29	14	26	11	7	10	11	7
041	BH141_0.2	29	14	26	11	7	10	11	7
042	BH142_0.2	29	14	26	11	7	10	11	7
043	BH143_0.2	29	14	26	11	7	10	11	7
044	BH144_0.2	29	14	26	11	7	10	11	7
045	BH145_0.1	29	14	26	11	7	10	11	7
046	BH146_0.1	29	14	26	11	7	10	11	7
047	BH147_0.1	29	14	26	11	7	10	11	7
048	BH148_0.2	29	14	26	11	7	10	11	7

CONTINUED OVERLEAF

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

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

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

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

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

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
049	BH149_0.4	29	14	26	11	7	10	11	7
050	BH150_0.2	29	14	26	11	7	10	11	7
051	BH151_0.2	29	14	26	11	7	10	11	7
052	BH152_0.2	29	14	26	11	7	10	11	7
053	BH153_0.1	29	14	26	11	7	10	11	7
054	BH154_0.2	29	14	26	11	7	10	11	7
055	BH156_0.3	29	14	26	11	7	10	11	7
058	BH103_0.7	-	-	26	-	7	10	11	7
059	BH107_0.8	-	-	26	-	7	10	11	7
060	BH109_0.8	-	-	26	-	7	10	11	7
061	BH110_0.8	-	-	26	-	7	10	11	7
062	BH112_0.7	-	-	26	-	7	10	11	7
063	BH123_0.7	-	-	26	-	7	10	11	7
064	BH126_0.7	-	-	26	-	7	10	11	7
065	BH128_0.7	-	-	26	-	7	10	11	7
066	BH133_0.7	-	-	26	-	7	10	11	7
067	BH135_0.7	-	-	26	-	7	10	11	7
068	BH139_0.8	-	-	26	-	7	10	11	7
069	BH142_0.7	-	-	26	-	7	10	11	7
070	BH143_0.7	-	-	26	-	7	10	11	7
071	BH150_0.7	-	-	26	-	7	10	11	7
072	BH152_0.7	-	-	26	-	7	10	11	7

CONTINUED OVERLEAF

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



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client EI AUSTRALIA

Project E24901 24 Coronation Road, Congarinni No

SUMMARY OF ANALYSIS

No.	Sample ID	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
073	BH153_0.7	26	7	10	11	7
074	BH155_0.8	26	7	10	11	7
075	BH156_0.8	26	7	10	11	7
076	QD-1	-	7	10	11	7
077	QD-2	-	7	10	11	7
078	QD-3	-	7	10	11	7
079	QD-4	-	7	10	11	7
080	Trip Blank	-	-	-	11	-
081	Trip Spike	-	-	-	11	-
083	BH155_0.3	26	7	10	11	7

CONTINUED OVERLEAF

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



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	BH101_0.3	2	1	1
002	BH102_0.2	2	1	1
003	BH103_0.2	2	1	1
004	BH104_0.3	2	1	1
005	BH105_0.4	2	1	1
006	BH106_0.3	2	1	1
007	BH107_0.3	2	1	1
008	BH108_0.3	2	1	1
009	BH109_0.3	2	1	1
010	BH110_0.3	2	1	1
011	BH111_0.2	2	1	1
012	BH112_0.2	2	1	1
013	BH113_0.3	2	1	1
014	BH114_0.4	2	1	1
015	BH115_0.2	2	1	1
016	BH116_0.3	2	1	1
017	BH117_0.3	2	1	1
018	BH118_0.2	2	1	1
019	BH119_0.2	2	1	1
020	BH120_0.2	2	1	1
021	BH121_0.2	2	1	1
022	BH122_0.2	2	1	1
023	BH123_0.2	2	1	1
024	BH124_0.2	2	1	1

CONTINUED OVERLEAF

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

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

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

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



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
025	BH125_0.1	2	1	1
026	BH126_0.2	2	1	1
027	BH127_0.2	2	1	1
028	BH128_0.2	2	1	1
029	BH129_0.2	2	1	1
030	BH130_0.2	2	1	1
031	BH131_0.2	2	1	1
032	BH132_0.2	2	1	1
033	BH133_0.2	2	1	1
034	BH134_0.2	2	1	1
035	BH135_0.2	2	1	1
036	BH136_0.3	2	1	1
037	BH137_0.2	2	1	1
038	BH138_0.4	2	1	1
039	BH139_0.3	2	1	1
040	BH140_0.1	2	1	1
041	BH141_0.2	2	1	1
042	BH142_0.2	2	1	1
043	BH143_0.2	2	1	1
044	BH144_0.2	2	1	1
045	BH145_0.1	2	1	1
046	BH146_0.1	2	1	1
047	BH147_0.1	2	1	1
048	BH148_0.2	2	1	1

CONTINUED OVERLEAF

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

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

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

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

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	SPOCAS Net Acidity Calculations	TAA (Titratable Actual Acidity)	TPA (Titratable Peroxide Acidity)
049	BH149_0.4	2	1	1	-	-	-
050	BH150_0.2	2	1	1	-	-	-
051	BH151_0.2	2	1	1	-	-	-
052	BH152_0.2	2	1	1	-	-	-
053	BH153_0.1	2	1	1	-	-	-
054	BH154_0.2	2	1	1	-	-	-
055	BH156_0.3	2	1	1	-	-	-
056	BH112_3.5	-	-	1	6	7	21
057	BH112_4.0	-	-	1	6	7	21
058	BH103_0.7	-	1	1	-	-	-
059	BH107_0.8	-	1	1	-	-	-
060	BH109_0.8	-	1	1	-	-	-
061	BH110_0.8	-	1	1	-	-	-
062	BH112_0.7	-	1	1	-	-	-
063	BH123_0.7	-	1	1	-	-	-
064	BH126_0.7	-	1	1	-	-	-
065	BH128_0.7	-	1	1	-	-	-
066	BH133_0.7	-	1	1	-	-	-
067	BH135_0.7	-	1	1	-	-	-
068	BH139_0.8	-	1	1	-	-	-
069	BH142_0.7	-	1	1	-	-	-
070	BH143_0.7	-	1	1	-	-	-
071	BH150_0.7	-	1	1	-	-	-
072	BH152_0.7	-	1	1	-	-	-

CONTINUED OVERLEAF

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

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

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

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



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content
073	BH153_0.7	1	1
074	BH155_0.8	1	1
075	BH156_0.8	1	1
076	QD-1	1	1
077	QD-2	1	1
078	QD-3	1	1
079	QD-4	1	1
080	Trip Blank	-	1
083	BH155_0.3	1	1

CONTINUED OVERLEAF

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



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
082	QR-1	7	9	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 .



SAMPLE RECEIPT ADVICE

SE213894

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E24901 24 Coronation Road, Congarinni No**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water
082	QR-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 .

Sheet <u>1</u> of <u>7</u>					Sample Matrix										Analysis										Comments
Site: <u>24 CORONATION ROAD,</u> <u>CONGARINNI NORTH NSW</u>				Project No: <u>E24901</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A / TRH/BTEX/PAHs OC/POP/PCB/Asbestos	HM A / TRH/BTEX/PAHs	HM A / TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	SPOCAS	PFAS				TCLP HM B / PAH	
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
				Date	Time																				
BH 101 - 0.3	1	J, ZLB	17.11.20	AM		X		X															HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel		
102 - 0.2	2					X		X															Dewatering Suite pH & EC TDS / Turbidity NTU Hardness		
103 - 0.2	3					X		X															Total Cyanide		
104 - 0.3	4					X		X															Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)		
105 - 0.4	5					X		X															TRH (F1, F2, F3, F4)		
106 - 0.3	6					X		X															BTEX		
107 - 0.3	7					X		X															PAH		
108 - 0.3	8					X		X															Total Phenol		
109 - 0.3	9					X		X															LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____		
110 - 0.3	10					X		X																	
110 - 0.2	11					X		X																	
112 - 0.2	12					X		X																	

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

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

Sampler's Name (EI): Print <u>J. Thomas</u> Signature <u>[Signature]</u> Date <u>20.11.20</u>	Received by (SGS): <u>ECS S110</u> Print <u>Jasen Day</u> Signature <u>[Signature]</u> Date <u>24/11/20</u> <u>1349</u>
--	--

Report with EI Waste Classification Table ☐

Sampler's Comments:
Hold all samples not listed on ① Col
Forward ② QT-1, ③ QT-2, ④ QT-3
& ④ QT-4 to EnviroLab



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

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

CONFIRMATION | PARTICIPATION | GEOTECHNICAL

Appendix F – Laboratory Analytical Reports

CLIENT DETAILS

Contact Jordan Thomas
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 61 2 95160722
 Facsimile (Not specified)
 Email Jordan.Thomas@eiaustralia.com.au

Project **E24901 24 Coronation Road, Congarinni No**
 Order Number **E24901**
 Samples 83

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

SGS Reference **SE213894 R0**
 Date Received 20/11/2020
 Date Reported 30/11/2020

COMMENTS

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

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

Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthupudin .

SPOCAS subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report Number CE149552

SIGNATORIES



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 Chemist



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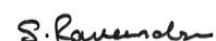
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Ly Kim HA
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Ravee SIVASUBRAMANIAM
 Hygiene Team Leader

VOC's in Soil [AN433] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.073	17/11/2020 SE213894.074	17/11/2020 SE213894.075	17/11/2020 SE213894.076	17/11/2020 SE213894.077
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	QD-3	QD-4	Trip Blank	Trip Spike	BH155_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.078	18/11/2020 SE213894.079	18/11/2020 SE213894.080	18/11/2020 SE213894.081	17/11/2020 SE213894.083
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	[88%]	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	[91%]	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	[91%]	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	[92%]	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	[92%]	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	-	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	-	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	-	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
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	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
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	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
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	BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.073	17/11/2020 SE213894.074	17/11/2020 SE213894.075	17/11/2020 SE213894.076	17/11/2020 SE213894.077
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	QD-3	QD-4	BH155_0.3
			SOIL	SOIL	SOIL
			-	-	-
			18/11/2020 SE213894.078	18/11/2020 SE213894.079	17/11/2020 SE213894.083
TRH C6-C9	mg/kg	20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
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	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<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	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
TRH C10-C14	mg/kg	20	<20	22	<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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
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	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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	49	59	65
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	61	<45	<45
TRH C29-C36	mg/kg	45	89	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	28	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	28	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	93	<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	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
TRH C10-C14	mg/kg	20	<20	22	<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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
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	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
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	BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.073	17/11/2020 SE213894.074	17/11/2020 SE213894.075	17/11/2020 SE213894.076	17/11/2020 SE213894.077
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	QD-3	QD-4	BH155_0.3
			SOIL - 18/11/2020 SE213894.078	SOIL - 18/11/2020 SE213894.079	SOIL - 17/11/2020 SE213894.083
TRH C10-C14	mg/kg	20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<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	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<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	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<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	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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	0.8	<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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
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	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH153_0.7	BH155_0.8	BH156_0.8	BH155_0.3
			SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.073	17/11/2020 SE213894.074	17/11/2020 SE213894.075	17/11/2020 SE213894.083
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	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
Chrysene	mg/kg	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
Benzo(k)fluoranthene	mg/kg	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
Indeno(1,2,3-cd)pyrene	mg/kg	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
Benzo(ghi)perylene	mg/kg	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
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	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
Total PAH (18)	mg/kg	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

OC Pesticides in Soil [AN420] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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

OC Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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

OP Pesticides in Soil [AN420] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
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	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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

PCBs in Soil [AN420] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
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	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
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	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
Arsenic, As	mg/kg	1	13	12	12	12	12
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	1.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	13	14	12	14
Copper, Cu	mg/kg	0.5	17	15	40	16	19
Lead, Pb	mg/kg	1	15	14	100	14	18
Nickel, Ni	mg/kg	0.5	9.5	11	9.1	9.4	9.9
Zinc, Zn	mg/kg	2	43	64	150	45	50

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
Arsenic, As	mg/kg	1	15	13	11	10	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	17	13	11	10
Copper, Cu	mg/kg	0.5	20	17	15	16	11
Lead, Pb	mg/kg	1	24	21	22	19	13
Nickel, Ni	mg/kg	0.5	11	10	9.9	12	7.2
Zinc, Zn	mg/kg	2	45	41	46	53	35

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
Arsenic, As	mg/kg	1	9	10	49	10	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	13	7.7	8.7	12
Copper, Cu	mg/kg	0.5	12	16	4.5	2.6	4.2
Lead, Pb	mg/kg	1	18	19	10	8	10
Nickel, Ni	mg/kg	0.5	9.0	9.1	3.8	3.5	4.4
Zinc, Zn	mg/kg	2	40	41	10	12	8.9

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Arsenic, As	mg/kg	1	330	18	4	5	10
Cadmium, Cd	mg/kg	0.3	2.7	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.8	11	11	12	8.1
Copper, Cu	mg/kg	0.5	5.8	4.1	7.2	15	7.3
Lead, Pb	mg/kg	1	12	9	10	9	9
Nickel, Ni	mg/kg	0.5	1.2	2.8	4.2	7.9	3.5
Zinc, Zn	mg/kg	2	4.2	7.1	17	29	12

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/11/2020

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Arsenic, As	mg/kg	1	18	5	4	6	32
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	12	10	9.9	16
Copper, Cu	mg/kg	0.5	5.0	3.4	4.6	5.0	3.8
Lead, Pb	mg/kg	1	9	8	7	7	10
Nickel, Ni	mg/kg	0.5	2.1	2.1	2.0	2.2	4.9
Zinc, Zn	mg/kg	2	4.9	5.1	6.0	6.1	11

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
Arsenic, As	mg/kg	1	6	7	13	8	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	16	8.5	8.7	13	12
Copper, Cu	mg/kg	0.5	11	8.8	7.8	10	7.7
Lead, Pb	mg/kg	1	10	8	9	6	5
Nickel, Ni	mg/kg	0.5	4.3	2.4	3.3	2.3	2.5
Zinc, Zn	mg/kg	2	11	8.9	7.8	8.6	9.2

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
Arsenic, As	mg/kg	1	2	14	11	15	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	3.3	16	8.8	12	6.7
Copper, Cu	mg/kg	0.5	2.8	8.3	7.5	8.3	5.2
Lead, Pb	mg/kg	1	4	5	6	6	8
Nickel, Ni	mg/kg	0.5	2.3	1.6	1.9	2.2	1.5
Zinc, Zn	mg/kg	2	5.0	6.2	6.5	11	6.0

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
Arsenic, As	mg/kg	1	4	4	<1	4	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	11	3.7	8.1	5.3
Copper, Cu	mg/kg	0.5	8.9	4.3	0.7	3.6	3.6
Lead, Pb	mg/kg	1	10	6	4	8	5
Nickel, Ni	mg/kg	0.5	3.2	1.7	0.6	2.2	2.2
Zinc, Zn	mg/kg	2	12	5.1	<2.0	5.0	6.3

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/11/2020

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
Arsenic, As	mg/kg	1	<1	8	3	3	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	4.6	18	8.4	7.6	9.8
Copper, Cu	mg/kg	0.5	1.8	5.5	6.8	4.3	9.4
Lead, Pb	mg/kg	1	5	4	8	7	6
Nickel, Ni	mg/kg	0.5	1.2	0.8	1.5	1.9	3.5
Zinc, Zn	mg/kg	2	2.6	4.3	4.0	6.9	20

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
Arsenic, As	mg/kg	1	4	4	6	6	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	8.2	9.9	29	18
Copper, Cu	mg/kg	0.5	9.4	7.2	8.7	18	9.0
Lead, Pb	mg/kg	1	8	7	10	5	6
Nickel, Ni	mg/kg	0.5	5.0	4.1	2.3	0.6	2.3
Zinc, Zn	mg/kg	2	20	18	10	11	6.0

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
Arsenic, As	mg/kg	1	2	4	15	10	13
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.4	9.6	9.4	13	15
Copper, Cu	mg/kg	0.5	5.4	7.9	5.1	12	18
Lead, Pb	mg/kg	1	4	6	7	18	20
Nickel, Ni	mg/kg	0.5	1.6	1.8	2.6	8.9	9.9
Zinc, Zn	mg/kg	2	3.3	6.2	5.7	45	47

PARAMETER	UOM	LOR	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
Arsenic, As	mg/kg	1	9	13	16	9	16
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	16	14	13	13
Copper, Cu	mg/kg	0.5	9.7	24	19	14	22
Lead, Pb	mg/kg	1	11	14	15	14	12
Nickel, Ni	mg/kg	0.5	4.8	4.1	8.7	6.4	4.7
Zinc, Zn	mg/kg	2	30	24	45	30	34

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/11/2020

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
Arsenic, As	mg/kg	1	4	11	22	7	20
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	20	24	18	15	18
Copper, Cu	mg/kg	0.5	2.5	12	3.7	23	3.5
Lead, Pb	mg/kg	1	8	8	8	9	8
Nickel, Ni	mg/kg	0.5	0.9	1.9	0.7	7.2	0.6
Zinc, Zn	mg/kg	2	4.0	11	4.8	65	4.4

PARAMETER	UOM	LOR	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
Arsenic, As	mg/kg	1	3	12	6	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	26	28	23	24
Copper, Cu	mg/kg	0.5	1.3	7.8	26	14	13
Lead, Pb	mg/kg	1	4	4	8	4	7
Nickel, Ni	mg/kg	0.5	1.6	0.6	1.6	<0.5	1.5
Zinc, Zn	mg/kg	2	5.0	4.3	19	8.2	11

PARAMETER	UOM	LOR	BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			17/11/2020 SE213894.073	17/11/2020 SE213894.074	17/11/2020 SE213894.075	17/11/2020 SE213894.076	17/11/2020 SE213894.077
Arsenic, As	mg/kg	1	14	11	8	14	11
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.6	12	14	12	15
Copper, Cu	mg/kg	0.5	3.4	13	28	18	17
Lead, Pb	mg/kg	1	6	14	22	14	16
Nickel, Ni	mg/kg	0.5	1.4	5.8	4.9	6.8	7.9
Zinc, Zn	mg/kg	2	4.4	38	35	40	37

PARAMETER	UOM	LOR	QD-3	QD-4	BH155_0.3
			SOIL	SOIL	SOIL
			18/11/2020 SE213894.078	18/11/2020 SE213894.079	17/11/2020 SE213894.083
Arsenic, As	mg/kg	1	15	11	12
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.3	27	12
Copper, Cu	mg/kg	0.5	4.4	8.7	18
Lead, Pb	mg/kg	1	7	4	22
Nickel, Ni	mg/kg	0.5	2.3	0.6	12
Zinc, Zn	mg/kg	2	5.1	4.7	47

Mercury in Soil [AN312] Tested: 24/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.001	SE213894.002	SE213894.003	SE213894.004	SE213894.005
Mercury	mg/kg	0.05	0.16	0.12	0.24	0.14	0.20

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.006	SE213894.007	SE213894.008	SE213894.009	SE213894.010
Mercury	mg/kg	0.05	0.12	0.10	0.19	0.14	0.12

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.011	SE213894.012	SE213894.013	SE213894.014	SE213894.015
Mercury	mg/kg	0.05	0.11	0.16	0.07	<0.05	0.08

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.016	SE213894.017	SE213894.018	SE213894.019	SE213894.020
Mercury	mg/kg	0.05	<0.05	0.07	0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.021	SE213894.022	SE213894.023	SE213894.024	SE213894.025
Mercury	mg/kg	0.05	0.08	0.06	0.06	0.06	<0.05

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.026	SE213894.027	SE213894.028	SE213894.029	SE213894.030
Mercury	mg/kg	0.05	0.06	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.031	SE213894.032	SE213894.033	SE213894.034	SE213894.035
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/11/2020 (continued)

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	18/11/2020
			SE213894.036	SE213894.037	SE213894.038	SE213894.039	SE213894.040
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020	18/11/2020	18/11/2020	18/11/2020	18/11/2020
			SE213894.041	SE213894.042	SE213894.043	SE213894.044	SE213894.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020	18/11/2020	18/11/2020	18/11/2020	17/11/2020
			SE213894.046	SE213894.047	SE213894.048	SE213894.049	SE213894.050
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.051	SE213894.052	SE213894.053	SE213894.054	SE213894.055
Mercury	mg/kg	0.05	<0.05	<0.05	0.07	0.12	0.12

PARAMETER	UOM	LOR	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.058	SE213894.059	SE213894.060	SE213894.061	SE213894.062
Mercury	mg/kg	0.05	0.08	0.22	0.23	<0.05	0.16

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.063	SE213894.064	SE213894.065	SE213894.066	SE213894.067
Mercury	mg/kg	0.05	0.07	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	18/11/2020	18/11/2020	17/11/2020	17/11/2020
			SE213894.068	SE213894.069	SE213894.070	SE213894.071	SE213894.072
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/11/2020 (continued)

			BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
PARAMETER	UOM	LOR	SE213894.073	SE213894.074	SE213894.075	SE213894.076	SE213894.077
Mercury	mg/kg	0.05	0.06	0.10	0.12	0.19	0.05

			QD-3	QD-4	BH155_0.3
			SOIL	SOIL	SOIL
			-	-	-
			18/11/2020	18/11/2020	17/11/2020
PARAMETER	UOM	LOR	SE213894.078	SE213894.079	SE213894.083
Mercury	mg/kg	0.05	0.05	<0.05	0.12

Moisture Content [AN002] Tested: 23/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
% Moisture	%w/w	1	26.0	20.7	14.1	29.1	29.5

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
% Moisture	%w/w	1	33.3	23.2	30.5	24.6	17.3

PARAMETER	UOM	LOR	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
% Moisture	%w/w	1	25.6	26.3	17.4	17.5	23.1

PARAMETER	UOM	LOR	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
% Moisture	%w/w	1	15.8	19.0	21.9	23.5	19.5

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
% Moisture	%w/w	1	17.1	13.3	18.8	16.6	10.8

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
% Moisture	%w/w	1	26.1	9.7	15.0	12.9	16.3

PARAMETER	UOM	LOR	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
% Moisture	%w/w	1	12.6	9.9	11.8	10.6	6.0

Moisture Content [AN002] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
% Moisture	%w/w	1	12.2	11.0	19.2	20.5	16.9

PARAMETER	UOM	LOR	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
% Moisture	%w/w	1	16.7	7.9	15.9	20.3	8.3

PARAMETER	UOM	LOR	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
% Moisture	%w/w	1	18.5	16.6	12.7	16.7	16.3

PARAMETER	UOM	LOR	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
% Moisture	%w/w	1	15.6	10.1	9.1	22.9	31.9

PARAMETER	UOM	LOR	BH103_0.7	BH107_0.8	BH109_0.8	BH110_0.8	BH112_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.058	17/11/2020 SE213894.059	17/11/2020 SE213894.060	17/11/2020 SE213894.061	17/11/2020 SE213894.062
% Moisture	%w/w	1	10.5	19.1	22.1	10.4	22.7

PARAMETER	UOM	LOR	BH123_0.7	BH126_0.7	BH128_0.7	BH133_0.7	BH135_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.063	17/11/2020 SE213894.064	17/11/2020 SE213894.065	17/11/2020 SE213894.066	17/11/2020 SE213894.067
% Moisture	%w/w	1	15.8	19.6	16.6	13.0	14.9

PARAMETER	UOM	LOR	BH139_0.8	BH142_0.7	BH143_0.7	BH150_0.7	BH152_0.7
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.068	18/11/2020 SE213894.069	18/11/2020 SE213894.070	17/11/2020 SE213894.071	17/11/2020 SE213894.072
% Moisture	%w/w	1	13.1	7.8	16.7	23.9	18.4

Moisture Content [AN002] Tested: 23/11/2020 (continued)

PARAMETER	UOM	LOR	BH153_0.7	BH155_0.8	BH156_0.8	QD-1	QD-2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020	17/11/2020	17/11/2020	17/11/2020	17/11/2020
			SE213894.073	SE213894.074	SE213894.075	SE213894.076	SE213894.077
% Moisture	%w/w	1	8.3	23.8	24.1	11.3	23.5

PARAMETER	UOM	LOR	QD-3	QD-4	Trip Blank	BH155_0.3
			SOIL	SOIL	SOIL	SOIL
			-	-	-	-
			18/11/2020	18/11/2020	18/11/2020	17/11/2020
			SE213894.078	SE213894.079	SE213894.080	SE213894.083
% Moisture	%w/w	1	10.6	10.4	<1.0	27.4

Fibre Identification in soil [AN602] Tested: 25/11/2020

PARAMETER	UOM	LOR	BH101_0.3	BH102_0.2	BH103_0.2	BH104_0.3	BH105_0.4
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.001	17/11/2020 SE213894.002	17/11/2020 SE213894.003	17/11/2020 SE213894.004	17/11/2020 SE213894.005
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH106_0.3	BH107_0.3	BH108_0.3	BH109_0.3	BH110_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.006	17/11/2020 SE213894.007	17/11/2020 SE213894.008	17/11/2020 SE213894.009	17/11/2020 SE213894.010
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	BH111_0.2	BH112_0.2	BH113_0.3	BH114_0.4	BH115_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.011	17/11/2020 SE213894.012	17/11/2020 SE213894.013	17/11/2020 SE213894.014	17/11/2020 SE213894.015
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	BH116_0.3	BH117_0.3	BH118_0.2	BH119_0.2	BH120_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.016	17/11/2020 SE213894.017	17/11/2020 SE213894.018	17/11/2020 SE213894.019	17/11/2020 SE213894.020
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH121_0.2	BH122_0.2	BH123_0.2	BH124_0.2	BH125_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.021	17/11/2020 SE213894.022	17/11/2020 SE213894.023	17/11/2020 SE213894.024	17/11/2020 SE213894.025
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH126_0.2	BH127_0.2	BH128_0.2	BH129_0.2	BH130_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.026	17/11/2020 SE213894.027	17/11/2020 SE213894.028	17/11/2020 SE213894.029	17/11/2020 SE213894.030
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	BH131_0.2	BH132_0.2	BH133_0.2	BH134_0.2	BH135_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.031	17/11/2020 SE213894.032	17/11/2020 SE213894.033	17/11/2020 SE213894.034	17/11/2020 SE213894.035
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Fibre Identification in soil [AN602] Tested: 25/11/2020 (continued)

PARAMETER	UOM	LOR	BH136_0.3	BH137_0.2	BH138_0.4	BH139_0.3	BH140_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.036	17/11/2020 SE213894.037	17/11/2020 SE213894.038	17/11/2020 SE213894.039	18/11/2020 SE213894.040
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	BH141_0.2	BH142_0.2	BH143_0.2	BH144_0.2	BH145_0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.041	18/11/2020 SE213894.042	18/11/2020 SE213894.043	18/11/2020 SE213894.044	18/11/2020 SE213894.045
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	BH146_0.1	BH147_0.1	BH148_0.2	BH149_0.4	BH150_0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/11/2020 SE213894.046	18/11/2020 SE213894.047	18/11/2020 SE213894.048	18/11/2020 SE213894.049	17/11/2020 SE213894.050
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	BH151_0.2	BH152_0.2	BH153_0.1	BH154_0.2	BH156_0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			17/11/2020 SE213894.051	17/11/2020 SE213894.052	17/11/2020 SE213894.053	17/11/2020 SE213894.054	17/11/2020 SE213894.055
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

TAA (Titratable Actual Acidity) [AN219] Tested: 30/11/2020

PARAMETER	UOM	LOR	BH112_3.5	BH112_4.0
			SOIL	SOIL
			-	-
			17/11/2020 SE213894.056	17/11/2020 SE213894.057
pH KCl*	pH Units	-	4.9	5.0
Titratable Actual Acidity	kg H ₂ SO ₄ /T	0.25	1.2	0.98
Titratable Actual Acidity (TAA) moles H+/tonne	moles H+/T	5	25	20
Titratable Actual Acidity (TAA) S%w/w	%w/w S	0.01	0.04	0.03
Sulphur (SKCl)	%w/w	0.005	0.013	0.026
Calcium (CaKCl)	%w/w	0.005	0.016	0.029
Magnesium (MgKCl)	%w/w	0.005	0.022	0.037

TPA (Titratable Peroxide Acidity) [AN218] Tested: 30/11/2020

PARAMETER	UOM	LOR	BH112_3.5	BH112_4.0
			SOIL - 17/11/2020 SE213894.056	SOIL - 17/11/2020 SE213894.057
Peroxide pH (pH Ox)	pH Units	-	3.1	2.0
TPA as kg H ₂ SO ₄ /tonne	kg H ₂ SO ₄ /T	0.25	4.5	22
TPA as moles H ⁺ /tonne	moles H ⁺ /T	5	92	442
TPA as S % W/W	%w/w S	0.01	0.15	0.71
Titrateable Sulfidic Acidity as moles H ⁺ /tonne	moles H ⁺ /T	5	67	422
Titrateable Sulfidic Acidity as kg H ₂ SO ₄ /tonne	kg H ₂ SO ₄ /T	0.25	3.3	21
Titrateable Sulfidic Acidity as S % W/W	%w/w S	0.01	0.11	0.68
ANCE as % CaCO ₃	% CaCO ₃	0.01	<0.01	<0.01
ANCE as moles H ⁺ /tonne	moles H ⁺ /T	5	<5	<5
ANCE as S % W/W	%w/w S	0.01	<0.01	<0.01
Peroxide Oxidisable Sulphur (Spos)*	%w/w	0.005	0.12	0.68
Peroxide Oxidisable Sulphur as moles H ⁺ /tonne*	moles H ⁺ /T	5	76	422
Sulphur (Sp)	%w/w	0.005	0.14	0.70
Calcium (Cap)	%w/w	0.005	0.018	0.031
Reacted Calcium (CaA)*	%w/w	0.005	<0.005	<0.005
Reacted Calcium (CaA)*	moles H ⁺ /T	5	<5	<5
Magnesium (Mgp)	%w/w	0.005	0.027	0.047
Reacted Magnesium (MgA)*	%w/w	0.005	0.005	0.010
Reacted Magnesium (MgA)*	moles H ⁺ /T	5	<5	9
Net Acid Soluble Sulphur as % w/w*	%w/w	0.005	-	-
Net Acid Soluble Sulphur as moles H ⁺ /tonne*	moles H ⁺ /T	5	-	-

SPOCAS Net Acidity Calculations [AN220] Tested: 30/11/2020

PARAMETER	UOM	LOR	BH112_3.5	BH112_4.0
			SOIL	SOIL
			-	-
			17/11/2020 SE213894.056	17/11/2020 SE213894.057
s-Net Acidity	%w/w S	0.005	0.16	0.71
a-Net Acidity	moles H+/T	5	100	440
Liming Rate*	kg CaCO ₃ /T	0.1	7.6	33
Verification s-Net Acidity*	%w/w S	-20	0.04	0.23
a-Net Acidity without ANCE*	moles H+/T	5	100	440
Liming Rate without ANCE*	kg CaCO ₃ /T	0.1	7.6	33

VOCs in Water [AN433] Tested: 24/11/2020

			QR-1
			WATER
			-
			18/11/2020
			SE213894.082
PARAMETER	UOM	LOR	
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 24/11/2020

			QR-1
			WATER
			-
			18/11/2020
			SE213894.082
PARAMETER	UOM	LOR	
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 24/11/2020

			QR-1
			WATER
			-
			18/11/2020
			SE213894.082
PARAMETER	UOM	LOR	
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 24/11/2020

			QR-1
			WATER
			-
			18/11/2020
			SE213894.082
PARAMETER	UOM	LOR	
Arsenic, As	µg/L	1	<1
Cadmium, Cd	µg/L	0.1	<0.1
Chromium, Cr	µg/L	1	<1
Copper, Cu	µg/L	1	<1
Lead, Pb	µg/L	1	<1
Nickel, Ni	µg/L	1	<1
Zinc, Zn	µg/L	5	<5



ANALYTICAL RESULTS

SE213894 R0

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 25/11/2020

			QR-1
			WATER
			-
			18/11/2020
			SE213894.082
PARAMETER	UOM	LOR	
Mercury	mg/L	0.0001	<0.0001

METHOD

METHODOLOGY SUMMARY

AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN218	Soil samples are subjected to extreme oxidising conditions using hydrogen peroxide. Continuous application of heat and peroxide ensure all sulfide is converted to sulfuric acid. Excess peroxide is broken down by a copper catalyst prior to titration for acidity. Calcium, magnesium, and sulfur are determined by ICP-OES. Also included is a carbonate modification step which, depending on pH after the initial oxidation, gives a measure of ANC.
AN219	Dried pulped sample is extracted for 4 hours in a 1 M KCl solution. The ratio of sample to solution is 1:40. The extract is titrated for acidity. Calcium, magnesium, and sulfur are determined by ICP-AES.
AN220	SPOCAS Suite: Scheme for the calculation of net acidities and liming rates using a Fineness Factor of 1.5.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
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 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."

AN602

The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-

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

FOOTNOTES

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

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

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

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

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

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

Note that in terms of units of radioactivity:

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

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

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

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SGS Reference **SE213894 R0**
 Date Received 20 Nov 2020
 Date Reported 30 Nov 2020

COMMENTS

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

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

Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthupudin .

SPOCAS subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report Number CE149552

SIGNATORIES



Akheevar BENIAMEEN
 Chemist



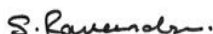
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 Senior Chemist



Ly Kim HA
 Organic Section Head



Ravee SIVASUBRAMANIAM
 Hygiene Team Leader

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE213894.001	BH101_0.3	Soil	136g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.002	BH102_0.2	Soil	152g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.003	BH103_0.2	Soil	119g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.004	BH104_0.3	Soil	135g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.005	BH105_0.4	Soil	163g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.006	BH106_0.3	Soil	86g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.007	BH107_0.3	Soil	153g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.008	BH108_0.3	Soil	150g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.009	BH109_0.3	Soil	160g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.010	BH110_0.3	Soil	130g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.011	BH111_0.2	Soil	93g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.012	BH112_0.2	Soil	122g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.013	BH113_0.3	Soil	117g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.014	BH114_0.4	Soil	140g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.015	BH115_0.2	Soil	165g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.016	BH116_0.3	Soil	109g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.017	BH117_0.3	Soil	340g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.018	BH118_0.2	Soil	297g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.019	BH119_0.2	Soil	138g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.020	BH120_0.2	Soil	118g Clay, Sand, Soil, Plant matter	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.021	BH121_0.2	Soil	122g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.022	BH122_0.2	Soil	303g Clay, Sand, Soil	17 Nov 2020	No Asbestos Found	<0.01
SE213894.023	BH123_0.2	Soil	91g Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found	<0.01
SE213894.024	BH124_0.2	Soil	269g Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found	<0.01
SE213894.025	BH125_0.1	Soil	343g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE213894.026	BH126_0.2	Soil	105g Clay, Sand, Soil, Rocks, Plant matter	17 Nov 2020	No Asbestos Found	<0.01
SE213894.027	BH127_0.2	Soil	296g Clay, Sand, Soil, Rocks, Plant matter	17 Nov 2020	No Asbestos Found	<0.01
SE213894.028	BH128_0.2	Soil	105g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.029	BH129_0.2	Soil	109g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.030	BH130_0.2	Soil	332g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.031	BH131_0.2	Soil	236g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.032	BH132_0.2	Soil	310g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.033	BH133_0.2	Soil	236g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.034	BH134_0.2	Soil	144g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found	<0.01
SE213894.035	BH135_0.2	Soil	113g Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.036	BH136_0.3	Soil	115g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.037	BH137_0.2	Soil	322g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.038	BH138_0.4	Soil	203g Clay	17 Nov 2020	No Asbestos Found	<0.01
SE213894.039	BH139_0.3	Soil	180g Clay, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.040	BH140_0.1	Soil	280g Clay, Sand, Soil, Rocks	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.041	BH141_0.2	Soil	65g Clay, Sand, Soil, Rocks	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.042	BH142_0.2	Soil	148g Clay, Sand, Rocks	18 Nov 2020	No Asbestos Found	<0.01
SE213894.043	BH143_0.2	Soil	287g Clay, Sand, Soil, Rocks	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.044	BH144_0.2	Soil	94g Clay, Sand, Soil, Rocks	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.045	BH145_0.1	Soil	334g Clay, Sand, Soil, Rocks	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.046	BH146_0.1	Soil	258g Clay, Soil, Rocks, Plant matter	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01

RESULTS

Fibre Identification in soil

Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE213894.047	BH147_0.1	Soil	237g Clay, Sand, Soil, Rocks, Plant matter	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.048	BH148_0.2	Soil	133g Clay, Sand, Soil, Rocks, Plant matter	18 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.049	BH149_0.4	Soil	251g Clay, Rocks	18 Nov 2020	No Asbestos Found	<0.01
SE213894.050	BH150_0.2	Soil	91g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.051	BH151_0.2	Soil	83g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found Organic Fibres Detected	<0.01
SE213894.052	BH152_0.2	Soil	127g Clay, Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found	<0.01
SE213894.053	BH153_0.1	Soil	134g Sand, Soil, Rocks	17 Nov 2020	No Asbestos Found	<0.01
SE213894.054	BH154_0.2	Soil	149g Clay	17 Nov 2020	No Asbestos Found	<0.01
SE213894.055	BH156_0.3	Soil	157g Clay, Soil	17 Nov 2020	No Asbestos Found	<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 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."
AN602	The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (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.

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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CERTIFICATE OF ANALYSIS 256504

Client Details

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

Sample Details

Your Reference	<u>E24901, Congarinni North</u>
Number of Samples	4 SOIL
Date samples received	24/11/2020
Date completed instructions received	30/11/2020

Analysis Details

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

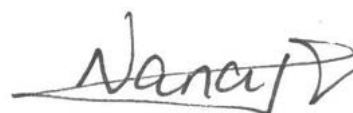
Report Details

Date results requested by	07/12/2020
Date of Issue	03/12/2020
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
 Ken Nguyen, Reporting Supervisor
 Manju Dewendrage, Chemist

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		256504-1	256504-2	256504-3	256504-4
Your Reference	UNITS	QT-1	QT-2	QT-3	QT-4
Date Sampled		17/11/2020	17/11/2020	17/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL	SOIL
Date extracted	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	02/12/2020	02/12/2020	02/12/2020	02/12/2020
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	115	110	99	70

svTRH (C10-C40) in Soil					
Our Reference		256504-1	256504-2	256504-3	256504-4
Your Reference	UNITS	QT-1	QT-2	QT-3	QT-4
Date Sampled		17/11/2020	17/11/2020	17/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL	SOIL
Date extracted	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	88	99	95

Acid Extractable metals in soil					
Our Reference		256504-1	256504-2	256504-3	256504-4
Your Reference	UNITS	QT-1	QT-2	QT-3	QT-4
Date Sampled		17/11/2020	17/11/2020	17/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL	SOIL
Date prepared	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Arsenic	mg/kg	9	7	13	15
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	10	10	24
Copper	mg/kg	16	11	5	9
Lead	mg/kg	16	11	7	5
Mercury	mg/kg	0.2	<0.1	<0.1	<0.1
Nickel	mg/kg	6	5	3	<1
Zinc	mg/kg	41	22	6	4

Moisture					
Our Reference		256504-1	256504-2	256504-3	256504-4
Your Reference	UNITS	QT-1	QT-2	QT-3	QT-4
Date Sampled		17/11/2020	17/11/2020	17/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL	SOIL
Date prepared	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	02/12/2020	02/12/2020	02/12/2020	02/12/2020
Moisture	%	11	10	16	12

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

Client Reference: E24901, Congarinni North

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	256504-1
Date extracted	-			01/12/2020	[NT]	[NT]	[NT]	[NT]	01/12/2020	01/12/2020
Date analysed	-			02/12/2020	[NT]	[NT]	[NT]	[NT]	02/12/2020	02/12/2020
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	96
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	100	96
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	96	90
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	106	104
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	97
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	98	94
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	92
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	116	[NT]	[NT]	[NT]	[NT]	106	105

Client Reference: E24901, Congarinni North

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	256504-1
Date extracted	-			01/12/2020	[NT]	[NT]	[NT]	[NT]	01/12/2020	1/12/2020
Date analysed	-			01/12/2020	[NT]	[NT]	[NT]	[NT]	01/12/2020	01/12/2020
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	120	104
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	119	104
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	83
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	120	104
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	119	104
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	92	83
Surrogate o-Terphenyl	%		Org-020	92	[NT]	[NT]	[NT]	[NT]	86	75

Client Reference: E24901, Congarinni North

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	256504-1
Date prepared	-			01/12/2020	[NT]	[NT]	[NT]	[NT]	01/12/2020	01/12/2020
Date analysed	-			01/12/2020	[NT]	[NT]	[NT]	[NT]	01/12/2020	01/12/2020
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	108	93
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	103	86
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	94
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	109	105
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	112	91
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	107	91
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	98
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	89

Result Definitions

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

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Appendix G – Laboratory QA/QC Policies and DQOs



STATEMENT OF QA/QC PERFORMANCE

SE213894 R0

CLIENT DETAILS

Contact Jordan Thomas
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 61 2 95160722
Facsimile (Not specified)
Email Jordan.Thomas@eiaustralia.com.au

Project **E24901 24 Coronation Road, Congarinni No**
Order Number **E24901**
Samples 83

LABORATORY DETAILS

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Telephone +61 2 8594 0400
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SGS Reference **SE213894 R0**
Date Received 20 Nov 2020
Date Reported 30 Nov 2020

COMMENTS

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

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

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

Surrogate	VOC's in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item
Duplicate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	2 items
	Volatile Petroleum Hydrocarbons in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item

SAMPLE SUMMARY

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Fibre Identification in soil

Method: ME-(AU)-ENVJAN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH102_0.2	SE213894.002	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH103_0.2	SE213894.003	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH104_0.3	SE213894.004	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH105_0.4	SE213894.005	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH106_0.3	SE213894.006	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH107_0.3	SE213894.007	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH108_0.3	SE213894.008	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH109_0.3	SE213894.009	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH110_0.3	SE213894.010	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH111_0.2	SE213894.011	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH123_0.2	SE213894.023	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH133_0.2	SE213894.033	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH134_0.2	SE213894.034	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH135_0.2	SE213894.035	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH136_0.3	SE213894.036	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH137_0.2	SE213894.037	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH138_0.4	SE213894.038	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH139_0.3	SE213894.039	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH140_0.1	SE213894.040	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH141_0.2	SE213894.041	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH142_0.2	SE213894.042	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH143_0.2	SE213894.043	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH144_0.2	SE213894.044	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH145_0.1	SE213894.045	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH146_0.1	SE213894.046	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH147_0.1	SE213894.047	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH148_0.2	SE213894.048	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH149_0.4	SE213894.049	LB214262	18 Nov 2020	20 Nov 2020	18 Nov 2021	25 Nov 2020	18 Nov 2021	27 Nov 2020
BH150_0.2	SE213894.050	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH151_0.2	SE213894.051	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH152_0.2	SE213894.052	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH153_0.1	SE213894.053	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH154_0.2	SE213894.054	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020
BH156_0.3	SE213894.055	LB214262	17 Nov 2020	20 Nov 2020	17 Nov 2021	25 Nov 2020	17 Nov 2021	27 Nov 2020

Mercury (dissolved) in Water

Method: ME-(AU)-ENVJAN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR-1	SE213894.082	LB214230	18 Nov 2020	20 Nov 2020	16 Dec 2020	25 Nov 2020	16 Dec 2020	27 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Mercury in Soil

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH102_0.2	SE213894.002	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH103_0.2	SE213894.003	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH104_0.3	SE213894.004	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH105_0.4	SE213894.005	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH106_0.3	SE213894.006	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH107_0.3	SE213894.007	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH108_0.3	SE213894.008	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH109_0.3	SE213894.009	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH110_0.3	SE213894.010	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH111_0.2	SE213894.011	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH112_0.2	SE213894.012	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH113_0.3	SE213894.013	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH114_0.4	SE213894.014	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH115_0.2	SE213894.015	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH116_0.3	SE213894.016	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH117_0.3	SE213894.017	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH118_0.2	SE213894.018	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH119_0.2	SE213894.019	LB214138	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH120_0.2	SE213894.020	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH121_0.2	SE213894.021	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH122_0.2	SE213894.022	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH123_0.2	SE213894.023	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH124_0.2	SE213894.024	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH125_0.1	SE213894.025	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH126_0.2	SE213894.026	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH127_0.2	SE213894.027	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH128_0.2	SE213894.028	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH129_0.2	SE213894.029	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH130_0.2	SE213894.030	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH131_0.2	SE213894.031	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH132_0.2	SE213894.032	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH133_0.2	SE213894.033	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH134_0.2	SE213894.034	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH135_0.2	SE213894.035	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH136_0.3	SE213894.036	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH137_0.2	SE213894.037	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH138_0.4	SE213894.038	LB214139	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH139_0.3	SE213894.039	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH140_0.1	SE213894.040	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH141_0.2	SE213894.041	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH142_0.2	SE213894.042	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH143_0.2	SE213894.043	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH144_0.2	SE213894.044	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH145_0.1	SE213894.045	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH146_0.1	SE213894.046	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH147_0.1	SE213894.047	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH148_0.2	SE213894.048	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH149_0.4	SE213894.049	LB214140	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH150_0.2	SE213894.050	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH151_0.2	SE213894.051	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH152_0.2	SE213894.052	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH153_0.1	SE213894.053	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH154_0.2	SE213894.054	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH156_0.3	SE213894.055	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH103_0.7	SE213894.058	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH107_0.8	SE213894.059	LB214140	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH109_0.8	SE213894.060	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH110_0.8	SE213894.061	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH112_0.7	SE213894.062	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Mercury in Soil (continued)

Method: ME-(AU)-ENVJAN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH123_0.7	SE213894.063	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH126_0.7	SE213894.064	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH128_0.7	SE213894.065	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH133_0.7	SE213894.066	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH135_0.7	SE213894.067	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH139_0.8	SE213894.068	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH142_0.7	SE213894.069	LB214141	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH143_0.7	SE213894.070	LB214141	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH150_0.7	SE213894.071	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH152_0.7	SE213894.072	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH153_0.7	SE213894.073	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH155_0.8	SE213894.074	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
BH156_0.8	SE213894.075	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
QD-1	SE213894.076	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
QD-2	SE213894.077	LB214141	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020
QD-3	SE213894.078	LB214141	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
QD-4	SE213894.079	LB214144	18 Nov 2020	20 Nov 2020	16 Dec 2020	24 Nov 2020	16 Dec 2020	26 Nov 2020
BH155_0.3	SE213894.083	LB214144	17 Nov 2020	20 Nov 2020	15 Dec 2020	24 Nov 2020	15 Dec 2020	26 Nov 2020

Moisture Content

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH102_0.2	SE213894.002	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH103_0.2	SE213894.003	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH104_0.3	SE213894.004	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH105_0.4	SE213894.005	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH106_0.3	SE213894.006	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH107_0.3	SE213894.007	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH108_0.3	SE213894.008	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH109_0.3	SE213894.009	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH110_0.3	SE213894.010	LB214056	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH111_0.2	SE213894.011	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH112_0.2	SE213894.012	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH113_0.3	SE213894.013	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH114_0.4	SE213894.014	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH115_0.2	SE213894.015	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH116_0.3	SE213894.016	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH117_0.3	SE213894.017	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH118_0.2	SE213894.018	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH119_0.2	SE213894.019	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH120_0.2	SE213894.020	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH121_0.2	SE213894.021	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH122_0.2	SE213894.022	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH123_0.2	SE213894.023	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH124_0.2	SE213894.024	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH125_0.1	SE213894.025	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH126_0.2	SE213894.026	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH127_0.2	SE213894.027	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH128_0.2	SE213894.028	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH129_0.2	SE213894.029	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH130_0.2	SE213894.030	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH131_0.2	SE213894.031	LB214057	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH132_0.2	SE213894.032	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH133_0.2	SE213894.033	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH134_0.2	SE213894.034	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH135_0.2	SE213894.035	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH136_0.3	SE213894.036	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH137_0.2	SE213894.037	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH138_0.4	SE213894.038	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH139_0.3	SE213894.039	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content (continued)

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH140_0.1	SE213894.040	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH141_0.2	SE213894.041	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH142_0.2	SE213894.042	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH143_0.2	SE213894.043	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH144_0.2	SE213894.044	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH145_0.1	SE213894.045	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH146_0.1	SE213894.046	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH147_0.1	SE213894.047	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH148_0.2	SE213894.048	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH149_0.4	SE213894.049	LB214058	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH150_0.2	SE213894.050	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH151_0.2	SE213894.051	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH152_0.2	SE213894.052	LB214058	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH153_0.1	SE213894.053	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH154_0.2	SE213894.054	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH156_0.3	SE213894.055	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH103_0.7	SE213894.058	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH107_0.8	SE213894.059	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH109_0.8	SE213894.060	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH110_0.8	SE213894.061	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH112_0.7	SE213894.062	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH123_0.7	SE213894.063	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH126_0.7	SE213894.064	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH128_0.7	SE213894.065	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH133_0.7	SE213894.066	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH135_0.7	SE213894.067	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH139_0.8	SE213894.068	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH142_0.7	SE213894.069	LB214059	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH143_0.7	SE213894.070	LB214059	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH150_0.7	SE213894.071	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH152_0.7	SE213894.072	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH153_0.7	SE213894.073	LB214059	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH155_0.8	SE213894.074	LB214060	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH156_0.8	SE213894.075	LB214060	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
QD-1	SE213894.076	LB214060	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
QD-2	SE213894.077	LB214060	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
QD-3	SE213894.078	LB214060	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
QD-4	SE213894.079	LB214060	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
Trip Blank	SE213894.080	LB214060	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020
BH155_0.3	SE213894.083	LB214060	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	28 Nov 2020	26 Nov 2020

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH102_0.2	SE213894.002	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH103_0.2	SE213894.003	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH104_0.3	SE213894.004	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH105_0.4	SE213894.005	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH106_0.3	SE213894.006	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH107_0.3	SE213894.007	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH108_0.3	SE213894.008	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH109_0.3	SE213894.009	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH110_0.3	SE213894.010	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH111_0.2	SE213894.011	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH118_0.2	SE213894.018	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH123_0.2	SE213894.023	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH133_0.2	SE213894.033	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH134_0.2	SE213894.034	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.2	SE213894.035	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH136_0.3	SE213894.036	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH137_0.2	SE213894.037	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH138_0.4	SE213894.038	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.3	SE213894.039	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH140_0.1	SE213894.040	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH141_0.2	SE213894.041	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.2	SE213894.042	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.2	SE213894.043	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH144_0.2	SE213894.044	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH145_0.1	SE213894.045	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH146_0.1	SE213894.046	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH147_0.1	SE213894.047	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH148_0.2	SE213894.048	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH149_0.4	SE213894.049	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH150_0.2	SE213894.050	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH151_0.2	SE213894.051	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH152_0.2	SE213894.052	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH153_0.1	SE213894.053	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH154_0.2	SE213894.054	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.3	SE213894.055	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.7	SE213894.058	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH107_0.8	SE213894.059	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.8	SE213894.060	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.8	SE213894.061	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.7	SE213894.062	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.7	SE213894.063	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.7	SE213894.064	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.7	SE213894.065	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH133_0.7	SE213894.066	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH135_0.7	SE213894.067	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.8	SE213894.068	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.7	SE213894.069	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.7	SE213894.070	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.7	SE213894.071	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.7	SE213894.072	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.7	SE213894.073	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.8	SE213894.074	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.8	SE213894.075	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-1	SE213894.076	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-2	SE213894.077	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-3	SE213894.078	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-4	SE213894.079	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH155_0.3	SE213894.083	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH102_0.2	SE213894.002	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.2	SE213894.003	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH104_0.3	SE213894.004	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH105_0.4	SE213894.005	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH106_0.3	SE213894.006	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH107_0.3	SE213894.007	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH108_0.3	SE213894.008	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.3	SE213894.009	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.3	SE213894.010	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH111_0.2	SE213894.011	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.2	SE213894.012	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH113_0.3	SE213894.013	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH114_0.4	SE213894.014	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH115_0.2	SE213894.015	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH116_0.3	SE213894.016	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH117_0.3	SE213894.017	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH118_0.2	SE213894.018	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH119_0.2	SE213894.019	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH120_0.2	SE213894.020	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH121_0.2	SE213894.021	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH122_0.2	SE213894.022	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.2	SE213894.023	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH124_0.2	SE213894.024	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH125_0.1	SE213894.025	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.2	SE213894.026	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH127_0.2	SE213894.027	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.2	SE213894.028	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH129_0.2	SE213894.029	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH130_0.2	SE213894.030	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH131_0.2	SE213894.031	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH132_0.2	SE213894.032	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH133_0.2	SE213894.033	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH134_0.2	SE213894.034	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH135_0.2	SE213894.035	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH136_0.3	SE213894.036	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH137_0.2	SE213894.037	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH138_0.4	SE213894.038	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.3	SE213894.039	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH140_0.1	SE213894.040	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH141_0.2	SE213894.041	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.2	SE213894.042	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.2	SE213894.043	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH144_0.2	SE213894.044	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH145_0.1	SE213894.045	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH146_0.1	SE213894.046	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH147_0.1	SE213894.047	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH148_0.2	SE213894.048	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH149_0.4	SE213894.049	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.2	SE213894.050	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH151_0.2	SE213894.051	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.2	SE213894.052	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.1	SE213894.053	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH154_0.2	SE213894.054	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.3	SE213894.055	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.7	SE213894.058	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

OP Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH107_0.8	SE213894.059	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.8	SE213894.060	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.8	SE213894.061	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.7	SE213894.062	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.7	SE213894.063	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.7	SE213894.064	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.7	SE213894.065	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH133_0.7	SE213894.066	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH135_0.7	SE213894.067	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.8	SE213894.068	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.7	SE213894.069	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.7	SE213894.070	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.7	SE213894.071	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.7	SE213894.072	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.7	SE213894.073	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.8	SE213894.074	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.8	SE213894.075	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-1	SE213894.076	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-2	SE213894.077	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-3	SE213894.078	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-4	SE213894.079	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.3	SE213894.083	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH102_0.2	SE213894.002	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.2	SE213894.003	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH104_0.3	SE213894.004	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH105_0.4	SE213894.005	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH106_0.3	SE213894.006	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH107_0.3	SE213894.007	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH108_0.3	SE213894.008	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.3	SE213894.009	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.3	SE213894.010	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH111_0.2	SE213894.011	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.2	SE213894.012	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH113_0.3	SE213894.013	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH114_0.4	SE213894.014	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH115_0.2	SE213894.015	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH116_0.3	SE213894.016	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH117_0.3	SE213894.017	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH118_0.2	SE213894.018	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH119_0.2	SE213894.019	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH120_0.2	SE213894.020	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH121_0.2	SE213894.021	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH122_0.2	SE213894.022	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.2	SE213894.023	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH124_0.2	SE213894.024	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH125_0.1	SE213894.025	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.2	SE213894.026	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH127_0.2	SE213894.027	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.2	SE213894.028	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH129_0.2	SE213894.029	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH130_0.2	SE213894.030	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH131_0.2	SE213894.031	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH132_0.2	SE213894.032	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH133_0.2	SE213894.033	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH134_0.2	SE213894.034	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH135_0.2	SE213894.035	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH136_0.3	SE213894.036	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH137_0.2	SE213894.037	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH138_0.4	SE213894.038	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.3	SE213894.039	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH140_0.1	SE213894.040	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH141_0.2	SE213894.041	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.2	SE213894.042	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.2	SE213894.043	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH144_0.2	SE213894.044	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH145_0.1	SE213894.045	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH146_0.1	SE213894.046	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH147_0.1	SE213894.047	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH148_0.2	SE213894.048	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH149_0.4	SE213894.049	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.2	SE213894.050	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH151_0.2	SE213894.051	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.2	SE213894.052	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.1	SE213894.053	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH154_0.2	SE213894.054	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.3	SE213894.055	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.7	SE213894.058	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH107_0.8	SE213894.059	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.8	SE213894.060	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.8	SE213894.061	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.7	SE213894.062	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.7	SE213894.063	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.7	SE213894.064	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.7	SE213894.065	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH133_0.7	SE213894.066	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH135_0.7	SE213894.067	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.8	SE213894.068	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.7	SE213894.069	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.7	SE213894.070	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.7	SE213894.071	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.7	SE213894.072	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.7	SE213894.073	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.8	SE213894.074	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.8	SE213894.075	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-1	SE213894.076	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-2	SE213894.077	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-3	SE213894.078	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-4	SE213894.079	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.3	SE213894.083	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH102_0.2	SE213894.002	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH103_0.2	SE213894.003	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH104_0.3	SE213894.004	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH105_0.4	SE213894.005	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH106_0.3	SE213894.006	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH107_0.3	SE213894.007	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH108_0.3	SE213894.008	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH109_0.3	SE213894.009	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH110_0.3	SE213894.010	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH111_0.2	SE213894.011	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PCBs in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH115_0.2	SE213894.015	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH123_0.2	SE213894.023	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH133_0.2	SE213894.033	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH134_0.2	SE213894.034	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH135_0.2	SE213894.035	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH136_0.3	SE213894.036	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH137_0.2	SE213894.037	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH138_0.4	SE213894.038	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH139_0.3	SE213894.039	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH140_0.1	SE213894.040	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH141_0.2	SE213894.041	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH142_0.2	SE213894.042	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH143_0.2	SE213894.043	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH144_0.2	SE213894.044	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH145_0.1	SE213894.045	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH146_0.1	SE213894.046	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH147_0.1	SE213894.047	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH148_0.2	SE213894.048	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH149_0.4	SE213894.049	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH150_0.2	SE213894.050	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH151_0.1	SE213894.051	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH152_0.2	SE213894.052	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH153_0.1	SE213894.053	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH154_0.2	SE213894.054	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.3	SE213894.055	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH103_0.7	SE213894.058	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH107_0.8	SE213894.059	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH109_0.8	SE213894.060	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH110_0.8	SE213894.061	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH112_0.7	SE213894.062	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH123_0.7	SE213894.063	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH126_0.7	SE213894.064	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH128_0.7	SE213894.065	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH133_0.7	SE213894.066	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH135_0.7	SE213894.067	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH139_0.8	SE213894.068	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH142_0.7	SE213894.069	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH143_0.7	SE213894.070	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH150_0.7	SE213894.071	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH152_0.7	SE213894.072	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH153_0.7	SE213894.073	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.8	SE213894.074	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH156_0.8	SE213894.075	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-1	SE213894.076	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

PCBs in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QD-2	SE213894.077	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-3	SE213894.078	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
QD-4	SE213894.079	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020
BH155_0.3	SE213894.083	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	30 Nov 2020

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH102_0.2	SE213894.002	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH103_0.2	SE213894.003	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH104_0.3	SE213894.004	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH105_0.4	SE213894.005	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH106_0.3	SE213894.006	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH107_0.3	SE213894.007	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH108_0.3	SE213894.008	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH109_0.3	SE213894.009	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH110_0.3	SE213894.010	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH111_0.2	SE213894.011	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214125	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH123_0.3	SE213894.023	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH133_0.2	SE213894.033	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH134_0.2	SE213894.034	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH135_0.2	SE213894.035	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH136_0.3	SE213894.036	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH137_0.2	SE213894.037	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH138_0.4	SE213894.038	LB214130	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH139_0.3	SE213894.039	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH140_0.1	SE213894.040	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH141_0.2	SE213894.041	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH142_0.2	SE213894.042	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH143_0.2	SE213894.043	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH144_0.2	SE213894.044	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH145_0.1	SE213894.045	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH146_0.1	SE213894.046	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH147_0.1	SE213894.047	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH148_0.2	SE213894.048	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH149_0.4	SE213894.049	LB214131	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH150_0.2	SE213894.050	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH151_0.2	SE213894.051	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH152_0.2	SE213894.052	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH153_0.1	SE213894.053	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH154_0.2	SE213894.054	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH156_0.3	SE213894.055	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH103_0.7	SE213894.058	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH107_0.8	SE213894.059	LB214131	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH109_0.8	SE213894.060	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH110_0.8	SE213894.061	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH112_0.7	SE213894.062	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH123_0.7	SE213894.063	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH126_0.7	SE213894.064	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH128_0.7	SE213894.065	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH133_0.7	SE213894.066	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH135_0.7	SE213894.067	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH139_0.8	SE213894.068	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH142_0.7	SE213894.069	LB214132	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH143_0.7	SE213894.070	LB214132	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH150_0.7	SE213894.071	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH152_0.7	SE213894.072	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH153_0.7	SE213894.073	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH155_0.8	SE213894.074	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
BH156_0.8	SE213894.075	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
QD-1	SE213894.076	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
QD-2	SE213894.077	LB214132	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020
QD-3	SE213894.078	LB214132	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
QD-4	SE213894.079	LB214134	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	27 Nov 2020
BH155_0.3	SE213894.083	LB214134	17 Nov 2020	20 Nov 2020	16 May 2021	24 Nov 2020	16 May 2021	27 Nov 2020

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR-1	SE213894.082	LB214088	18 Nov 2020	20 Nov 2020	17 May 2021	24 Nov 2020	17 May 2021	25 Nov 2020

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH102_0.2	SE213894.002	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH103_0.2	SE213894.003	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH104_0.3	SE213894.004	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH105_0.4	SE213894.005	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH106_0.3	SE213894.006	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH107_0.3	SE213894.007	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH108_0.3	SE213894.008	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH109_0.3	SE213894.009	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH110_0.3	SE213894.010	LB214050	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH111_0.2	SE213894.011	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH112_0.2	SE213894.012	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH121_0.2	SE213894.021	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH122_0.2	SE213894.022	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH123_0.2	SE213894.023	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH124_0.2	SE213894.024	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH125_0.1	SE213894.025	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH129_0.2	SE213894.029	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214051	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH133_0.2	SE213894.033	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH134_0.2	SE213894.034	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.2	SE213894.035	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH136_0.3	SE213894.036	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH137_0.2	SE213894.037	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH138_0.4	SE213894.038	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.3	SE213894.039	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH140_0.1	SE213894.040	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH141_0.2	SE213894.041	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.2	SE213894.042	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.2	SE213894.043	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH144_0.2	SE213894.044	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH145_0.1	SE213894.045	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH146_0.1	SE213894.046	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH147_0.1	SE213894.047	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH148_0.2	SE213894.048	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH149_0.4	SE213894.049	LB214052	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH150_0.2	SE213894.050	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH151_0.2	SE213894.051	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH152_0.2	SE213894.052	LB214052	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH153_0.1	SE213894.053	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH154_0.2	SE213894.054	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH156_0.3	SE213894.055	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH103_0.7	SE213894.058	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH107_0.8	SE213894.059	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH109_0.8	SE213894.060	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH110_0.8	SE213894.061	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH112_0.7	SE213894.062	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH123_0.7	SE213894.063	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.7	SE213894.064	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.7	SE213894.065	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH133_0.7	SE213894.066	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH135_0.7	SE213894.067	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH139_0.8	SE213894.068	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH142_0.7	SE213894.069	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH143_0.7	SE213894.070	LB214053	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH150_0.7	SE213894.071	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH152_0.7	SE213894.072	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH153_0.7	SE213894.073	LB214053	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH155_0.8	SE213894.074	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH156_0.8	SE213894.075	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
QD-1	SE213894.076	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
QD-2	SE213894.077	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
QD-3	SE213894.078	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
QD-4	SE213894.079	LB214054	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH155_0.3	SE213894.083	LB214054	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR-1	SE213894.082	LB214074	18 Nov 2020	20 Nov 2020	25 Nov 2020	24 Nov 2020	03 Jan 2021	26 Nov 2020

VOC's in Soil

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH102_0.2	SE213894.002	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH103_0.2	SE213894.003	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH104_0.3	SE213894.004	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH105_0.4	SE213894.005	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH106_0.3	SE213894.006	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH107_0.3	SE213894.007	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH108_0.3	SE213894.008	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH109_0.3	SE213894.009	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH110_0.3	SE213894.010	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH111_0.2	SE213894.011	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH123_0.2	SE213894.023	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH133_0.2	SE213894.033	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH134_0.2	SE213894.034	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.2	SE213894.035	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH136_0.3	SE213894.036	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH137_0.2	SE213894.037	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH138_0.4	SE213894.038	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.3	SE213894.039	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH140_0.1	SE213894.040	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH141_0.2	SE213894.041	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.2	SE213894.042	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.2	SE213894.043	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH144_0.2	SE213894.044	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH145_0.1	SE213894.045	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH146_0.1	SE213894.046	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH147_0.1	SE213894.047	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH148_0.2	SE213894.048	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH149_0.4	SE213894.049	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH150_0.2	SE213894.050	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH151_0.2	SE213894.051	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH152_0.2	SE213894.052	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH153_0.1	SE213894.053	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH154_0.2	SE213894.054	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH156_0.3	SE213894.055	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH103_0.7	SE213894.058	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH107_0.8	SE213894.059	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH109_0.8	SE213894.060	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH110_0.8	SE213894.061	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH112_0.7	SE213894.062	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH123_0.7	SE213894.063	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH126_0.7	SE213894.064	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH128_0.7	SE213894.065	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020

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

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

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH133_0.7	SE213894.066	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.7	SE213894.067	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.8	SE213894.068	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.7	SE213894.069	LB214047	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.7	SE213894.070	LB214047	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH150_0.7	SE213894.071	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH152_0.7	SE213894.072	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH153_0.7	SE213894.073	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH155_0.8	SE213894.074	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH156_0.8	SE213894.075	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-1	SE213894.076	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-2	SE213894.077	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-3	SE213894.078	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-4	SE213894.079	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
Trip Blank	SE213894.080	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
Trip Spike	SE213894.081	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH155_0.3	SE213894.083	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR-1	SE213894.082	LB214173	18 Nov 2020	20 Nov 2020	25 Nov 2020	24 Nov 2020	03 Jan 2021	25 Nov 2020

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101_0.3	SE213894.001	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH102_0.2	SE213894.002	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH103_0.2	SE213894.003	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH104_0.3	SE213894.004	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH105_0.4	SE213894.005	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH106_0.3	SE213894.006	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH107_0.3	SE213894.007	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH108_0.3	SE213894.008	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH109_0.3	SE213894.009	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH110_0.3	SE213894.010	LB214044	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH111_0.2	SE213894.011	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH112_0.2	SE213894.012	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH113_0.3	SE213894.013	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH114_0.4	SE213894.014	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH115_0.2	SE213894.015	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH116_0.3	SE213894.016	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH117_0.3	SE213894.017	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH118_0.2	SE213894.018	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH119_0.2	SE213894.019	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH120_0.2	SE213894.020	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH121_0.2	SE213894.021	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH122_0.2	SE213894.022	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH123_0.2	SE213894.023	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH124_0.2	SE213894.024	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH125_0.1	SE213894.025	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH126_0.2	SE213894.026	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH127_0.2	SE213894.027	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH128_0.2	SE213894.028	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH129_0.2	SE213894.029	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH130_0.2	SE213894.030	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH131_0.2	SE213894.031	LB214045	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH132_0.2	SE213894.032	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH133_0.2	SE213894.033	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH134_0.2	SE213894.034	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.2	SE213894.035	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH136_0.3	SE213894.036	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020



HOLDING TIME SUMMARY

SE213894 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH137_0.2	SE213894.037	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH138_0.4	SE213894.038	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.3	SE213894.039	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH140_0.1	SE213894.040	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH141_0.2	SE213894.041	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.2	SE213894.042	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.2	SE213894.043	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH144_0.2	SE213894.044	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH145_0.1	SE213894.045	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH146_0.1	SE213894.046	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH147_0.1	SE213894.047	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH148_0.2	SE213894.048	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH149_0.4	SE213894.049	LB214046	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH150_0.2	SE213894.050	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH151_0.2	SE213894.051	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH152_0.2	SE213894.052	LB214046	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH153_0.1	SE213894.053	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH154_0.2	SE213894.054	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH156_0.3	SE213894.055	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH103_0.7	SE213894.058	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH107_0.8	SE213894.059	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH109_0.8	SE213894.060	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH110_0.8	SE213894.061	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH112_0.7	SE213894.062	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH123_0.7	SE213894.063	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH126_0.7	SE213894.064	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH128_0.7	SE213894.065	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH133_0.7	SE213894.066	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH135_0.7	SE213894.067	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH139_0.8	SE213894.068	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH142_0.7	SE213894.069	LB214047	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH143_0.7	SE213894.070	LB214047	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH150_0.7	SE213894.071	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH152_0.7	SE213894.072	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH153_0.7	SE213894.073	LB214047	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH155_0.8	SE213894.074	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
BH156_0.8	SE213894.075	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-1	SE213894.076	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-2	SE213894.077	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-3	SE213894.078	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
QD-4	SE213894.079	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020
Trip Blank	SE213894.080	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
Trip Spike	SE213894.081	LB214048	18 Nov 2020	20 Nov 2020	02 Dec 2020	23 Nov 2020	02 Jan 2021	27 Nov 2020
BH155_0.3	SE213894.083	LB214048	17 Nov 2020	20 Nov 2020	01 Dec 2020	23 Nov 2020	02 Jan 2021	26 Nov 2020

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR-1	SE213894.082	LB214173	18 Nov 2020	20 Nov 2020	25 Nov 2020	24 Nov 2020	03 Jan 2021	25 Nov 2020

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

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

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	91
	BH102_0.2	SE213894.002	%	60 - 130%	101
	BH103_0.2	SE213894.003	%	60 - 130%	101
	BH104_0.3	SE213894.004	%	60 - 130%	103
	BH105_0.4	SE213894.005	%	60 - 130%	110
	BH106_0.3	SE213894.006	%	60 - 130%	111
	BH107_0.3	SE213894.007	%	60 - 130%	111
	BH108_0.3	SE213894.008	%	60 - 130%	108
	BH109_0.3	SE213894.009	%	60 - 130%	113
	BH110_0.3	SE213894.010	%	60 - 130%	107
	BH111_0.2	SE213894.011	%	60 - 130%	99
	BH112_0.2	SE213894.012	%	60 - 130%	100
	BH113_0.3	SE213894.013	%	60 - 130%	96
	BH114_0.4	SE213894.014	%	60 - 130%	98
	BH115_0.2	SE213894.015	%	60 - 130%	94
	BH116_0.3	SE213894.016	%	60 - 130%	95
	BH117_0.3	SE213894.017	%	60 - 130%	95
	BH118_0.2	SE213894.018	%	60 - 130%	87
	BH119_0.2	SE213894.019	%	60 - 130%	101
	BH120_0.2	SE213894.020	%	60 - 130%	96
	BH121_0.2	SE213894.021	%	60 - 130%	94
	BH122_0.2	SE213894.022	%	60 - 130%	91
	BH123_0.2	SE213894.023	%	60 - 130%	94
	BH124_0.2	SE213894.024	%	60 - 130%	95
	BH125_0.1	SE213894.025	%	60 - 130%	93
	BH126_0.2	SE213894.026	%	60 - 130%	99
	BH127_0.2	SE213894.027	%	60 - 130%	95
	BH128_0.2	SE213894.028	%	60 - 130%	91
	BH129_0.2	SE213894.029	%	60 - 130%	93
	BH130_0.2	SE213894.030	%	60 - 130%	95
	BH131_0.2	SE213894.031	%	60 - 130%	93
	BH132_0.2	SE213894.032	%	60 - 130%	100
	BH133_0.2	SE213894.033	%	60 - 130%	101
	BH134_0.2	SE213894.034	%	60 - 130%	100
	BH135_0.2	SE213894.035	%	60 - 130%	100
	BH136_0.3	SE213894.036	%	60 - 130%	105
	BH137_0.2	SE213894.037	%	60 - 130%	95
	BH138_0.4	SE213894.038	%	60 - 130%	105
	BH139_0.3	SE213894.039	%	60 - 130%	104
	BH140_0.1	SE213894.040	%	60 - 130%	100
	BH141_0.2	SE213894.041	%	60 - 130%	97
	BH142_0.2	SE213894.042	%	60 - 130%	102
	BH143_0.2	SE213894.043	%	60 - 130%	105
	BH144_0.2	SE213894.044	%	60 - 130%	107
	BH145_0.1	SE213894.045	%	60 - 130%	103
	BH146_0.1	SE213894.046	%	60 - 130%	106
	BH147_0.1	SE213894.047	%	60 - 130%	107
	BH148_0.2	SE213894.048	%	60 - 130%	112
	BH149_0.4	SE213894.049	%	60 - 130%	104
	BH150_0.2	SE213894.050	%	60 - 130%	104
	BH151_0.2	SE213894.051	%	60 - 130%	104
	BH152_0.2	SE213894.052	%	60 - 130%	104
	BH153_0.1	SE213894.053	%	60 - 130%	83
	BH154_0.2	SE213894.054	%	60 - 130%	91
	BH156_0.3	SE213894.055	%	60 - 130%	93

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	91
	BH102_0.2	SE213894.002	%	60 - 130%	82
	BH103_0.2	SE213894.003	%	60 - 130%	89

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 %
2-fluorobiphenyl (Surrogate)	BH104_0.3	SE213894.004	%	60 - 130%	91
	BH105_0.4	SE213894.005	%	60 - 130%	88
	BH106_0.3	SE213894.006	%	60 - 130%	93
	BH107_0.3	SE213894.007	%	60 - 130%	94
	BH108_0.3	SE213894.008	%	60 - 130%	95
	BH109_0.3	SE213894.009	%	60 - 130%	97
	BH110_0.3	SE213894.010	%	60 - 130%	99
	BH111_0.2	SE213894.011	%	60 - 130%	95
	BH112_0.2	SE213894.012	%	60 - 130%	99
	BH113_0.3	SE213894.013	%	60 - 130%	92
	BH114_0.4	SE213894.014	%	60 - 130%	93
	BH115_0.2	SE213894.015	%	60 - 130%	90
	BH116_0.3	SE213894.016	%	60 - 130%	93
	BH117_0.3	SE213894.017	%	60 - 130%	91
	BH118_0.2	SE213894.018	%	60 - 130%	93
	BH119_0.2	SE213894.019	%	60 - 130%	91
	BH120_0.2	SE213894.020	%	60 - 130%	92
	BH121_0.2	SE213894.021	%	60 - 130%	90
	BH122_0.2	SE213894.022	%	60 - 130%	93
	BH123_0.2	SE213894.023	%	60 - 130%	91
	BH124_0.2	SE213894.024	%	60 - 130%	93
	BH125_0.1	SE213894.025	%	60 - 130%	93
	BH126_0.2	SE213894.026	%	60 - 130%	91
	BH127_0.2	SE213894.027	%	60 - 130%	87
	BH128_0.2	SE213894.028	%	60 - 130%	98
	BH129_0.2	SE213894.029	%	60 - 130%	90
	BH130_0.2	SE213894.030	%	60 - 130%	94
	BH131_0.2	SE213894.031	%	60 - 130%	92
	BH132_0.2	SE213894.032	%	60 - 130%	96
	BH133_0.2	SE213894.033	%	60 - 130%	99
	BH134_0.2	SE213894.034	%	60 - 130%	94
	BH135_0.2	SE213894.035	%	60 - 130%	99
	BH136_0.3	SE213894.036	%	60 - 130%	100
	BH137_0.2	SE213894.037	%	60 - 130%	100
	BH138_0.4	SE213894.038	%	60 - 130%	96
	BH139_0.3	SE213894.039	%	60 - 130%	92
	BH140_0.1	SE213894.040	%	60 - 130%	99
	BH141_0.2	SE213894.041	%	60 - 130%	92
	BH142_0.2	SE213894.042	%	60 - 130%	100
	BH143_0.2	SE213894.043	%	60 - 130%	97
	BH144_0.2	SE213894.044	%	60 - 130%	93
	BH145_0.1	SE213894.045	%	60 - 130%	94
	BH146_0.1	SE213894.046	%	60 - 130%	92
	BH147_0.1	SE213894.047	%	60 - 130%	98
	BH148_0.2	SE213894.048	%	60 - 130%	91
	BH149_0.4	SE213894.049	%	60 - 130%	98
	BH150_0.2	SE213894.050	%	60 - 130%	98
	BH151_0.2	SE213894.051	%	60 - 130%	96
	BH152_0.2	SE213894.052	%	60 - 130%	98
	BH153_0.1	SE213894.053	%	60 - 130%	85
	BH154_0.2	SE213894.054	%	60 - 130%	87
	BH156_0.3	SE213894.055	%	60 - 130%	98
d14-p-terphenyl (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	97
	BH102_0.2	SE213894.002	%	60 - 130%	95
	BH103_0.2	SE213894.003	%	60 - 130%	106
	BH104_0.3	SE213894.004	%	60 - 130%	99
	BH105_0.4	SE213894.005	%	60 - 130%	92
	BH106_0.3	SE213894.006	%	60 - 130%	105
	BH107_0.3	SE213894.007	%	60 - 130%	102
	BH108_0.3	SE213894.008	%	60 - 130%	104
	BH109_0.3	SE213894.009	%	60 - 130%	101

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)	BH110_0.3	SE213894.010	%	60 - 130%	97
	BH111_0.2	SE213894.011	%	60 - 130%	93
	BH112_0.2	SE213894.012	%	60 - 130%	99
	BH113_0.3	SE213894.013	%	60 - 130%	91
	BH114_0.4	SE213894.014	%	60 - 130%	98
	BH115_0.2	SE213894.015	%	60 - 130%	97
	BH116_0.3	SE213894.016	%	60 - 130%	96
	BH117_0.3	SE213894.017	%	60 - 130%	95
	BH118_0.2	SE213894.018	%	60 - 130%	90
	BH119_0.2	SE213894.019	%	60 - 130%	89
	BH120_0.2	SE213894.020	%	60 - 130%	87
	BH121_0.2	SE213894.021	%	60 - 130%	92
	BH122_0.2	SE213894.022	%	60 - 130%	92
	BH123_0.2	SE213894.023	%	60 - 130%	90
	BH124_0.2	SE213894.024	%	60 - 130%	92
	BH125_0.1	SE213894.025	%	60 - 130%	102
	BH126_0.2	SE213894.026	%	60 - 130%	94
	BH127_0.2	SE213894.027	%	60 - 130%	95
	BH128_0.2	SE213894.028	%	60 - 130%	96
	BH129_0.2	SE213894.029	%	60 - 130%	90
	BH130_0.2	SE213894.030	%	60 - 130%	90
	BH131_0.2	SE213894.031	%	60 - 130%	91
	BH132_0.2	SE213894.032	%	60 - 130%	95
	BH133_0.2	SE213894.033	%	60 - 130%	96
	BH134_0.2	SE213894.034	%	60 - 130%	97
	BH135_0.2	SE213894.035	%	60 - 130%	95
	BH136_0.3	SE213894.036	%	60 - 130%	97
	BH137_0.2	SE213894.037	%	60 - 130%	92
	BH138_0.4	SE213894.038	%	60 - 130%	100
	BH139_0.3	SE213894.039	%	60 - 130%	98
	BH140_0.1	SE213894.040	%	60 - 130%	95
	BH141_0.2	SE213894.041	%	60 - 130%	98
	BH142_0.2	SE213894.042	%	60 - 130%	98
	BH143_0.2	SE213894.043	%	60 - 130%	96
	BH144_0.2	SE213894.044	%	60 - 130%	91
	BH145_0.1	SE213894.045	%	60 - 130%	98
	BH146_0.1	SE213894.046	%	60 - 130%	92
	BH147_0.1	SE213894.047	%	60 - 130%	93
	BH148_0.2	SE213894.048	%	60 - 130%	95
	BH149_0.4	SE213894.049	%	60 - 130%	99
	BH150_0.2	SE213894.050	%	60 - 130%	97
	BH151_0.2	SE213894.051	%	60 - 130%	101
	BH152_0.2	SE213894.052	%	60 - 130%	96
	BH153_0.1	SE213894.053	%	60 - 130%	88
	BH154_0.2	SE213894.054	%	60 - 130%	90
	BH156_0.3	SE213894.055	%	60 - 130%	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH101_0.3	SE213894.001	%	70 - 130%	91
	BH102_0.2	SE213894.002	%	70 - 130%	82
	BH103_0.2	SE213894.003	%	70 - 130%	89
	BH104_0.3	SE213894.004	%	70 - 130%	91
	BH105_0.4	SE213894.005	%	70 - 130%	88
	BH106_0.3	SE213894.006	%	70 - 130%	93
	BH107_0.3	SE213894.007	%	70 - 130%	94
	BH108_0.3	SE213894.008	%	70 - 130%	95
	BH109_0.3	SE213894.009	%	70 - 130%	97
	BH110_0.3	SE213894.010	%	70 - 130%	99
	BH111_0.2	SE213894.011	%	70 - 130%	95
	BH112_0.2	SE213894.012	%	70 - 130%	99

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

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH113_0.3	SE213894.013	%	70 - 130%	92
	BH114_0.4	SE213894.014	%	70 - 130%	93
	BH115_0.2	SE213894.015	%	70 - 130%	90
	BH116_0.3	SE213894.016	%	70 - 130%	93
	BH117_0.3	SE213894.017	%	70 - 130%	91
	BH118_0.2	SE213894.018	%	70 - 130%	93
	BH119_0.2	SE213894.019	%	70 - 130%	91
	BH120_0.2	SE213894.020	%	70 - 130%	92
	BH121_0.2	SE213894.021	%	70 - 130%	90
	BH122_0.2	SE213894.022	%	70 - 130%	93
	BH123_0.2	SE213894.023	%	70 - 130%	91
	BH124_0.2	SE213894.024	%	70 - 130%	93
	BH125_0.1	SE213894.025	%	70 - 130%	93
	BH126_0.2	SE213894.026	%	70 - 130%	91
	BH127_0.2	SE213894.027	%	70 - 130%	87
	BH128_0.2	SE213894.028	%	70 - 130%	98
	BH129_0.2	SE213894.029	%	70 - 130%	90
	BH130_0.2	SE213894.030	%	70 - 130%	94
	BH131_0.2	SE213894.031	%	70 - 130%	92
	BH132_0.2	SE213894.032	%	70 - 130%	96
	BH133_0.2	SE213894.033	%	70 - 130%	99
	BH134_0.2	SE213894.034	%	70 - 130%	94
	BH135_0.2	SE213894.035	%	70 - 130%	99
	BH136_0.3	SE213894.036	%	70 - 130%	100
	BH137_0.2	SE213894.037	%	70 - 130%	100
	BH138_0.4	SE213894.038	%	70 - 130%	96
	BH139_0.3	SE213894.039	%	70 - 130%	92
	BH140_0.1	SE213894.040	%	70 - 130%	99
	BH141_0.2	SE213894.041	%	70 - 130%	92
	BH142_0.2	SE213894.042	%	70 - 130%	100
	BH143_0.2	SE213894.043	%	70 - 130%	97
	BH144_0.2	SE213894.044	%	70 - 130%	93
	BH145_0.1	SE213894.045	%	70 - 130%	94
	BH146_0.1	SE213894.046	%	70 - 130%	92
	BH147_0.1	SE213894.047	%	70 - 130%	98
	BH148_0.2	SE213894.048	%	70 - 130%	91
	BH149_0.4	SE213894.049	%	70 - 130%	98
	BH150_0.2	SE213894.050	%	70 - 130%	98
	BH151_0.2	SE213894.051	%	70 - 130%	96
	BH152_0.2	SE213894.052	%	70 - 130%	98
	BH153_0.1	SE213894.053	%	70 - 130%	85
	BH154_0.2	SE213894.054	%	70 - 130%	87
	BH156_0.3	SE213894.055	%	70 - 130%	98
	BH103_0.7	SE213894.058	%	70 - 130%	93
	BH107_0.8	SE213894.059	%	70 - 130%	94
	BH109_0.8	SE213894.060	%	70 - 130%	85
	BH110_0.8	SE213894.061	%	70 - 130%	83
	BH112_0.7	SE213894.062	%	70 - 130%	83
	BH123_0.7	SE213894.063	%	70 - 130%	75
	BH126_0.7	SE213894.064	%	70 - 130%	82
	BH128_0.7	SE213894.065	%	70 - 130%	80
	BH133_0.7	SE213894.066	%	70 - 130%	80
	BH135_0.7	SE213894.067	%	70 - 130%	81
	BH139_0.8	SE213894.068	%	70 - 130%	88
	BH142_0.7	SE213894.069	%	70 - 130%	89
	BH143_0.7	SE213894.070	%	70 - 130%	74
	BH150_0.7	SE213894.071	%	70 - 130%	80
	BH152_0.7	SE213894.072	%	70 - 130%	80
	BH153_0.7	SE213894.073	%	70 - 130%	81
	BH155_0.8	SE213894.074	%	70 - 130%	100
	BH156_0.8	SE213894.075	%	70 - 130%	100

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

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH155_0.3	SE213894.083	%	70 - 130%	97
d14-p-terphenyl (Surrogate)	BH101_0.3	SE213894.001	%	70 - 130%	97
	BH102_0.2	SE213894.002	%	70 - 130%	95
	BH103_0.2	SE213894.003	%	70 - 130%	106
	BH104_0.3	SE213894.004	%	70 - 130%	99
	BH105_0.4	SE213894.005	%	70 - 130%	92
	BH106_0.3	SE213894.006	%	70 - 130%	105
	BH107_0.3	SE213894.007	%	70 - 130%	102
	BH108_0.3	SE213894.008	%	70 - 130%	104
	BH109_0.3	SE213894.009	%	70 - 130%	101
	BH110_0.3	SE213894.010	%	70 - 130%	97
	BH111_0.2	SE213894.011	%	70 - 130%	93
	BH112_0.2	SE213894.012	%	70 - 130%	99
	BH113_0.3	SE213894.013	%	70 - 130%	91
	BH114_0.4	SE213894.014	%	70 - 130%	98
	BH115_0.2	SE213894.015	%	70 - 130%	97
	BH116_0.3	SE213894.016	%	70 - 130%	96
	BH117_0.3	SE213894.017	%	70 - 130%	95
	BH118_0.2	SE213894.018	%	70 - 130%	90
	BH119_0.2	SE213894.019	%	70 - 130%	89
	BH120_0.2	SE213894.020	%	70 - 130%	87
	BH121_0.2	SE213894.021	%	70 - 130%	92
	BH122_0.2	SE213894.022	%	70 - 130%	92
	BH123_0.2	SE213894.023	%	70 - 130%	90
	BH124_0.2	SE213894.024	%	70 - 130%	92
	BH125_0.1	SE213894.025	%	70 - 130%	102
	BH126_0.2	SE213894.026	%	70 - 130%	94
	BH127_0.2	SE213894.027	%	70 - 130%	95
	BH128_0.2	SE213894.028	%	70 - 130%	96
	BH129_0.2	SE213894.029	%	70 - 130%	90
	BH130_0.2	SE213894.030	%	70 - 130%	90
	BH131_0.2	SE213894.031	%	70 - 130%	91
	BH132_0.2	SE213894.032	%	70 - 130%	95
	BH133_0.2	SE213894.033	%	70 - 130%	96
	BH134_0.2	SE213894.034	%	70 - 130%	97
	BH135_0.2	SE213894.035	%	70 - 130%	95
	BH136_0.3	SE213894.036	%	70 - 130%	97
	BH137_0.2	SE213894.037	%	70 - 130%	92
	BH138_0.4	SE213894.038	%	70 - 130%	100
	BH139_0.3	SE213894.039	%	70 - 130%	98
	BH140_0.1	SE213894.040	%	70 - 130%	95
	BH141_0.2	SE213894.041	%	70 - 130%	98
	BH142_0.2	SE213894.042	%	70 - 130%	98
	BH143_0.2	SE213894.043	%	70 - 130%	96
	BH144_0.2	SE213894.044	%	70 - 130%	91
	BH145_0.1	SE213894.045	%	70 - 130%	98
	BH146_0.1	SE213894.046	%	70 - 130%	92
	BH147_0.1	SE213894.047	%	70 - 130%	93
	BH148_0.2	SE213894.048	%	70 - 130%	95
	BH149_0.4	SE213894.049	%	70 - 130%	99
	BH150_0.2	SE213894.050	%	70 - 130%	97
	BH151_0.2	SE213894.051	%	70 - 130%	101
	BH152_0.2	SE213894.052	%	70 - 130%	96
	BH153_0.1	SE213894.053	%	70 - 130%	88
	BH154_0.2	SE213894.054	%	70 - 130%	90
	BH156_0.3	SE213894.055	%	70 - 130%	98
	BH103_0.7	SE213894.058	%	70 - 130%	86
	BH107_0.8	SE213894.059	%	70 - 130%	93
	BH109_0.8	SE213894.060	%	70 - 130%	89
	BH110_0.8	SE213894.061	%	70 - 130%	94
	BH112_0.7	SE213894.062	%	70 - 130%	93

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 %
d14-p-terphenyl (Surrogate)	BH123_0.7	SE213894.063	%	70 - 130%	94
	BH126_0.7	SE213894.064	%	70 - 130%	89
	BH128_0.7	SE213894.065	%	70 - 130%	92
	BH133_0.7	SE213894.066	%	70 - 130%	88
	BH135_0.7	SE213894.067	%	70 - 130%	88
	BH139_0.8	SE213894.068	%	70 - 130%	96
	BH142_0.7	SE213894.069	%	70 - 130%	98
	BH143_0.7	SE213894.070	%	70 - 130%	96
	BH150_0.7	SE213894.071	%	70 - 130%	86
	BH152_0.7	SE213894.072	%	70 - 130%	90
	BH153_0.7	SE213894.073	%	70 - 130%	89
	BH155_0.8	SE213894.074	%	70 - 130%	103
	BH156_0.8	SE213894.075	%	70 - 130%	100
	BH155_0.3	SE213894.083	%	70 - 130%	94
	BH101_0.3	SE213894.001	%	70 - 130%	93
d5-nitrobenzene (Surrogate)	BH102_0.2	SE213894.002	%	70 - 130%	85
	BH103_0.2	SE213894.003	%	70 - 130%	89
	BH104_0.3	SE213894.004	%	70 - 130%	92
	BH105_0.4	SE213894.005	%	70 - 130%	92
	BH106_0.3	SE213894.006	%	70 - 130%	91
	BH107_0.3	SE213894.007	%	70 - 130%	92
	BH108_0.3	SE213894.008	%	70 - 130%	97
	BH109_0.3	SE213894.009	%	70 - 130%	98
	BH110_0.3	SE213894.010	%	70 - 130%	99
	BH111_0.2	SE213894.011	%	70 - 130%	87
	BH112_0.2	SE213894.012	%	70 - 130%	90
	BH113_0.3	SE213894.013	%	70 - 130%	82
	BH114_0.4	SE213894.014	%	70 - 130%	88
	BH115_0.2	SE213894.015	%	70 - 130%	86
	BH116_0.3	SE213894.016	%	70 - 130%	85
	BH117_0.3	SE213894.017	%	70 - 130%	85
	BH118_0.2	SE213894.018	%	70 - 130%	85
	BH119_0.2	SE213894.019	%	70 - 130%	87
	BH120_0.2	SE213894.020	%	70 - 130%	87
	BH121_0.2	SE213894.021	%	70 - 130%	83
	BH122_0.2	SE213894.022	%	70 - 130%	86
	BH123_0.2	SE213894.023	%	70 - 130%	82
	BH124_0.2	SE213894.024	%	70 - 130%	85
	BH125_0.1	SE213894.025	%	70 - 130%	97
	BH126_0.2	SE213894.026	%	70 - 130%	93
	BH127_0.2	SE213894.027	%	70 - 130%	90
	BH128_0.2	SE213894.028	%	70 - 130%	92
	BH129_0.2	SE213894.029	%	70 - 130%	88
	BH130_0.2	SE213894.030	%	70 - 130%	93
	BH131_0.2	SE213894.031	%	70 - 130%	95
	BH132_0.2	SE213894.032	%	70 - 130%	98
	BH133_0.2	SE213894.033	%	70 - 130%	96
	BH134_0.2	SE213894.034	%	70 - 130%	99
	BH135_0.2	SE213894.035	%	70 - 130%	92
	BH136_0.3	SE213894.036	%	70 - 130%	86
	BH137_0.2	SE213894.037	%	70 - 130%	90
	BH138_0.4	SE213894.038	%	70 - 130%	89
	BH139_0.3	SE213894.039	%	70 - 130%	84
	BH140_0.1	SE213894.040	%	70 - 130%	87
	BH141_0.2	SE213894.041	%	70 - 130%	91
	BH142_0.2	SE213894.042	%	70 - 130%	85
	BH143_0.2	SE213894.043	%	70 - 130%	91
	BH144_0.2	SE213894.044	%	70 - 130%	90
	BH145_0.1	SE213894.045	%	70 - 130%	90
	BH146_0.1	SE213894.046	%	70 - 130%	90
	BH147_0.1	SE213894.047	%	70 - 130%	93

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)	BH148_0.2	SE213894.048	%	70 - 130%	95
	BH149_0.4	SE213894.049	%	70 - 130%	97
	BH150_0.2	SE213894.050	%	70 - 130%	93
	BH151_0.2	SE213894.051	%	70 - 130%	92
	BH152_0.2	SE213894.052	%	70 - 130%	94
	BH153_0.1	SE213894.053	%	70 - 130%	94
	BH154_0.2	SE213894.054	%	70 - 130%	90
	BH156_0.3	SE213894.055	%	70 - 130%	96
	BH103_0.7	SE213894.058	%	70 - 130%	96
	BH107_0.8	SE213894.059	%	70 - 130%	92
	BH109_0.8	SE213894.060	%	70 - 130%	95
	BH110_0.8	SE213894.061	%	70 - 130%	100
	BH112_0.7	SE213894.062	%	70 - 130%	94
	BH123_0.7	SE213894.063	%	70 - 130%	76
	BH126_0.7	SE213894.064	%	70 - 130%	90
	BH128_0.7	SE213894.065	%	70 - 130%	100
	BH133_0.7	SE213894.066	%	70 - 130%	94
	BH135_0.7	SE213894.067	%	70 - 130%	96
	BH139_0.8	SE213894.068	%	70 - 130%	98
	BH142_0.7	SE213894.069	%	70 - 130%	103
	BH143_0.7	SE213894.070	%	70 - 130%	89
	BH150_0.7	SE213894.071	%	70 - 130%	99
	BH152_0.7	SE213894.072	%	70 - 130%	94
	BH153_0.7	SE213894.073	%	70 - 130%	93
	BH155_0.8	SE213894.074	%	70 - 130%	93
	BH156_0.8	SE213894.075	%	70 - 130%	94
	BH155_0.3	SE213894.083	%	70 - 130%	88

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	91
	BH102_0.2	SE213894.002	%	60 - 130%	101
	BH103_0.2	SE213894.003	%	60 - 130%	101
	BH104_0.3	SE213894.004	%	60 - 130%	103
	BH105_0.4	SE213894.005	%	60 - 130%	110
	BH106_0.3	SE213894.006	%	60 - 130%	111
	BH107_0.3	SE213894.007	%	60 - 130%	111
	BH108_0.3	SE213894.008	%	60 - 130%	108
	BH109_0.3	SE213894.009	%	60 - 130%	113
	BH110_0.3	SE213894.010	%	60 - 130%	107
	BH111_0.2	SE213894.011	%	60 - 130%	99
	BH112_0.2	SE213894.012	%	60 - 130%	100
	BH113_0.3	SE213894.013	%	60 - 130%	96
	BH114_0.4	SE213894.014	%	60 - 130%	98
	BH115_0.2	SE213894.015	%	60 - 130%	94
	BH116_0.3	SE213894.016	%	60 - 130%	95
	BH117_0.3	SE213894.017	%	60 - 130%	95
	BH118_0.2	SE213894.018	%	60 - 130%	87
	BH119_0.2	SE213894.019	%	60 - 130%	101
	BH120_0.2	SE213894.020	%	60 - 130%	96
	BH121_0.2	SE213894.021	%	60 - 130%	94
	BH122_0.2	SE213894.022	%	60 - 130%	91
	BH123_0.2	SE213894.023	%	60 - 130%	94
	BH124_0.2	SE213894.024	%	60 - 130%	95
	BH125_0.1	SE213894.025	%	60 - 130%	93
	BH126_0.2	SE213894.026	%	60 - 130%	99
	BH127_0.2	SE213894.027	%	60 - 130%	95
	BH128_0.2	SE213894.028	%	60 - 130%	91
	BH129_0.2	SE213894.029	%	60 - 130%	93
	BH130_0.2	SE213894.030	%	60 - 130%	95
	BH131_0.2	SE213894.031	%	60 - 130%	93

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.

PCBs in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH132_0.2	SE213894.032	%	60 - 130%	100
	BH133_0.2	SE213894.033	%	60 - 130%	101
	BH134_0.2	SE213894.034	%	60 - 130%	100
	BH135_0.2	SE213894.035	%	60 - 130%	100
	BH136_0.3	SE213894.036	%	60 - 130%	105
	BH137_0.2	SE213894.037	%	60 - 130%	95
	BH138_0.4	SE213894.038	%	60 - 130%	105
	BH139_0.3	SE213894.039	%	60 - 130%	104
	BH140_0.1	SE213894.040	%	60 - 130%	100
	BH141_0.2	SE213894.041	%	60 - 130%	97
	BH142_0.2	SE213894.042	%	60 - 130%	102
	BH143_0.2	SE213894.043	%	60 - 130%	105
	BH144_0.2	SE213894.044	%	60 - 130%	107
	BH145_0.1	SE213894.045	%	60 - 130%	103
	BH146_0.1	SE213894.046	%	60 - 130%	106
	BH147_0.1	SE213894.047	%	60 - 130%	107
	BH148_0.2	SE213894.048	%	60 - 130%	112
	BH149_0.4	SE213894.049	%	60 - 130%	104
	BH150_0.2	SE213894.050	%	60 - 130%	104
	BH151_0.2	SE213894.051	%	60 - 130%	104
	BH152_0.2	SE213894.052	%	60 - 130%	104
	BH153_0.1	SE213894.053	%	60 - 130%	83
	BH154_0.2	SE213894.054	%	60 - 130%	91
	BH156_0.3	SE213894.055	%	60 - 130%	93

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	97
	BH102_0.2	SE213894.002	%	60 - 130%	94
	BH103_0.2	SE213894.003	%	60 - 130%	98
	BH104_0.3	SE213894.004	%	60 - 130%	95
	BH105_0.4	SE213894.005	%	60 - 130%	95
	BH106_0.3	SE213894.006	%	60 - 130%	97
	BH107_0.3	SE213894.007	%	60 - 130%	100
	BH108_0.3	SE213894.008	%	60 - 130%	101
	BH109_0.3	SE213894.009	%	60 - 130%	99
	BH110_0.3	SE213894.010	%	60 - 130%	100
	BH111_0.2	SE213894.011	%	60 - 130%	98
	BH112_0.2	SE213894.012	%	60 - 130%	96
	BH113_0.3	SE213894.013	%	60 - 130%	113
	BH114_0.4	SE213894.014	%	60 - 130%	94
	BH115_0.2	SE213894.015	%	60 - 130%	104
	BH116_0.3	SE213894.016	%	60 - 130%	103
	BH117_0.3	SE213894.017	%	60 - 130%	103
	BH118_0.2	SE213894.018	%	60 - 130%	105
	BH119_0.2	SE213894.019	%	60 - 130%	105
	BH120_0.2	SE213894.020	%	60 - 130%	101
	BH121_0.2	SE213894.021	%	60 - 130%	107
	BH122_0.2	SE213894.022	%	60 - 130%	104
	BH123_0.2	SE213894.023	%	60 - 130%	103
	BH124_0.2	SE213894.024	%	60 - 130%	106
	BH125_0.1	SE213894.025	%	60 - 130%	111
	BH126_0.2	SE213894.026	%	60 - 130%	100
	BH127_0.2	SE213894.027	%	60 - 130%	100
	BH128_0.2	SE213894.028	%	60 - 130%	105
	BH129_0.2	SE213894.029	%	60 - 130%	110
	BH130_0.2	SE213894.030	%	60 - 130%	111
	BH131_0.2	SE213894.031	%	60 - 130%	91
	BH132_0.2	SE213894.032	%	60 - 130%	80
	BH133_0.2	SE213894.033	%	60 - 130%	73
	BH134_0.2	SE213894.034	%	60 - 130%	78

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

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

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH135_0.2	SE213894.035	%	60 - 130%	75
	BH136_0.3	SE213894.036	%	60 - 130%	72
	BH137_0.2	SE213894.037	%	60 - 130%	73
	BH138_0.4	SE213894.038	%	60 - 130%	67
	BH139_0.3	SE213894.039	%	60 - 130%	72
	BH140_0.1	SE213894.040	%	60 - 130%	71
	BH141_0.2	SE213894.041	%	60 - 130%	72
	BH142_0.2	SE213894.042	%	60 - 130%	72
	BH143_0.2	SE213894.043	%	60 - 130%	69
	BH144_0.2	SE213894.044	%	60 - 130%	69
	BH145_0.1	SE213894.045	%	60 - 130%	71
	BH146_0.1	SE213894.046	%	60 - 130%	68
	BH147_0.1	SE213894.047	%	60 - 130%	67
	BH148_0.2	SE213894.048	%	60 - 130%	67
	BH149_0.4	SE213894.049	%	60 - 130%	71
	BH150_0.2	SE213894.050	%	60 - 130%	68
	BH151_0.2	SE213894.051	%	60 - 130%	64
	BH152_0.2	SE213894.052	%	60 - 130%	69
	BH153_0.1	SE213894.053	%	60 - 130%	100
	BH154_0.2	SE213894.054	%	60 - 130%	90
	BH156_0.3	SE213894.055	%	60 - 130%	92
	BH103_0.7	SE213894.058	%	60 - 130%	92
	BH107_0.8	SE213894.059	%	60 - 130%	93
	BH109_0.8	SE213894.060	%	60 - 130%	95
	BH110_0.8	SE213894.061	%	60 - 130%	95
	BH112_0.7	SE213894.062	%	60 - 130%	101
	BH123_0.7	SE213894.063	%	60 - 130%	99
	BH126_0.7	SE213894.064	%	60 - 130%	97
	BH128_0.7	SE213894.065	%	60 - 130%	88
	BH133_0.7	SE213894.066	%	60 - 130%	96
	BH135_0.7	SE213894.067	%	60 - 130%	96
	BH139_0.8	SE213894.068	%	60 - 130%	93
	BH142_0.7	SE213894.069	%	60 - 130%	94
	BH143_0.7	SE213894.070	%	60 - 130%	93
	BH150_0.7	SE213894.071	%	60 - 130%	89
	BH152_0.7	SE213894.072	%	60 - 130%	95
	BH153_0.7	SE213894.073	%	60 - 130%	97
	BH155_0.8	SE213894.074	%	60 - 130%	98
	BH156_0.8	SE213894.075	%	60 - 130%	95
	QD-1	SE213894.076	%	60 - 130%	104
	QD-2	SE213894.077	%	60 - 130%	103
	QD-3	SE213894.078	%	60 - 130%	99
	QD-4	SE213894.079	%	60 - 130%	110
	Trip Blank	SE213894.080	%	60 - 130%	110
	Trip Spike	SE213894.081	%	60 - 130%	96
	BH155_0.3	SE213894.083	%	60 - 130%	99
d4-1,2-dichloroethane (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	101
	BH102_0.2	SE213894.002	%	60 - 130%	102
	BH103_0.2	SE213894.003	%	60 - 130%	114
	BH104_0.3	SE213894.004	%	60 - 130%	107
	BH105_0.4	SE213894.005	%	60 - 130%	110
	BH106_0.3	SE213894.006	%	60 - 130%	94
	BH107_0.3	SE213894.007	%	60 - 130%	93
	BH108_0.3	SE213894.008	%	60 - 130%	104
	BH109_0.3	SE213894.009	%	60 - 130%	107
	BH110_0.3	SE213894.010	%	60 - 130%	101
	BH111_0.2	SE213894.011	%	60 - 130%	103
	BH112_0.2	SE213894.012	%	60 - 130%	89
	BH113_0.3	SE213894.013	%	60 - 130%	104
	BH114_0.4	SE213894.014	%	60 - 130%	112
	BH115_0.2	SE213894.015	%	60 - 130%	111

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)	BH116_0.3	SE213894.016	%	60 - 130%	110
	BH117_0.3	SE213894.017	%	60 - 130%	88
	BH118_0.2	SE213894.018	%	60 - 130%	127
	BH119_0.2	SE213894.019	%	60 - 130%	104
	BH120_0.2	SE213894.020	%	60 - 130%	106
	BH121_0.2	SE213894.021	%	60 - 130%	113
	BH122_0.2	SE213894.022	%	60 - 130%	119
	BH123_0.2	SE213894.023	%	60 - 130%	116
	BH124_0.2	SE213894.024	%	60 - 130%	116
	BH125_0.1	SE213894.025	%	60 - 130%	115
	BH126_0.2	SE213894.026	%	60 - 130%	121
	BH127_0.2	SE213894.027	%	60 - 130%	86
	BH128_0.2	SE213894.028	%	60 - 130%	97
	BH129_0.2	SE213894.029	%	60 - 130%	114
	BH130_0.2	SE213894.030	%	60 - 130%	134 Ⓢ
	BH131_0.2	SE213894.031	%	60 - 130%	97
	BH132_0.2	SE213894.032	%	60 - 130%	98
	BH133_0.2	SE213894.033	%	60 - 130%	96
	BH134_0.2	SE213894.034	%	60 - 130%	100
	BH135_0.2	SE213894.035	%	60 - 130%	98
	BH136_0.3	SE213894.036	%	60 - 130%	97
	BH137_0.2	SE213894.037	%	60 - 130%	96
	BH138_0.4	SE213894.038	%	60 - 130%	90
	BH139_0.3	SE213894.039	%	60 - 130%	95
	BH140_0.1	SE213894.040	%	60 - 130%	95
	BH141_0.2	SE213894.041	%	60 - 130%	96
	BH142_0.2	SE213894.042	%	60 - 130%	96
	BH143_0.2	SE213894.043	%	60 - 130%	95
	BH144_0.2	SE213894.044	%	60 - 130%	95
	BH145_0.1	SE213894.045	%	60 - 130%	97
	BH146_0.1	SE213894.046	%	60 - 130%	94
	BH147_0.1	SE213894.047	%	60 - 130%	93
	BH148_0.2	SE213894.048	%	60 - 130%	92
	BH149_0.4	SE213894.049	%	60 - 130%	98
	BH150_0.2	SE213894.050	%	60 - 130%	95
	BH151_0.2	SE213894.051	%	60 - 130%	94
	BH152_0.2	SE213894.052	%	60 - 130%	96
	BH153_0.1	SE213894.053	%	60 - 130%	107
	BH154_0.2	SE213894.054	%	60 - 130%	97
	BH156_0.3	SE213894.055	%	60 - 130%	95
	BH103_0.7	SE213894.058	%	60 - 130%	102
	BH107_0.8	SE213894.059	%	60 - 130%	102
	BH109_0.8	SE213894.060	%	60 - 130%	97
	BH110_0.8	SE213894.061	%	60 - 130%	96
	BH112_0.7	SE213894.062	%	60 - 130%	95
	BH123_0.7	SE213894.063	%	60 - 130%	93
	BH126_0.7	SE213894.064	%	60 - 130%	97
	BH128_0.7	SE213894.065	%	60 - 130%	87
	BH133_0.7	SE213894.066	%	60 - 130%	96
	BH135_0.7	SE213894.067	%	60 - 130%	98
	BH139_0.8	SE213894.068	%	60 - 130%	94
	BH142_0.7	SE213894.069	%	60 - 130%	93
	BH143_0.7	SE213894.070	%	60 - 130%	101
	BH150_0.7	SE213894.071	%	60 - 130%	99
	BH152_0.7	SE213894.072	%	60 - 130%	95
	BH153_0.7	SE213894.073	%	60 - 130%	94
	BH155_0.8	SE213894.074	%	60 - 130%	86
	BH156_0.8	SE213894.075	%	60 - 130%	106
	QD-1	SE213894.076	%	60 - 130%	94
	QD-2	SE213894.077	%	60 - 130%	104
	QD-3	SE213894.078	%	60 - 130%	94

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

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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)	QD-4	SE213894.079	%	60 - 130%	107
	Trip Blank	SE213894.080	%	60 - 130%	123
	Trip Spike	SE213894.081	%	60 - 130%	91
	BH155_0.3	SE213894.083	%	60 - 130%	97
d8-toluene (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	98
	BH102_0.2	SE213894.002	%	60 - 130%	94
	BH103_0.2	SE213894.003	%	60 - 130%	105
	BH104_0.3	SE213894.004	%	60 - 130%	104
	BH105_0.4	SE213894.005	%	60 - 130%	104
	BH106_0.3	SE213894.006	%	60 - 130%	90
	BH107_0.3	SE213894.007	%	60 - 130%	88
	BH108_0.3	SE213894.008	%	60 - 130%	104
	BH109_0.3	SE213894.009	%	60 - 130%	107
	BH110_0.3	SE213894.010	%	60 - 130%	101
	BH111_0.2	SE213894.011	%	60 - 130%	101
	BH112_0.2	SE213894.012	%	60 - 130%	81
	BH113_0.3	SE213894.013	%	60 - 130%	91
	BH114_0.4	SE213894.014	%	60 - 130%	103
	BH115_0.2	SE213894.015	%	60 - 130%	103
	BH116_0.3	SE213894.016	%	60 - 130%	102
	BH117_0.3	SE213894.017	%	60 - 130%	82
	BH118_0.2	SE213894.018	%	60 - 130%	112
	BH119_0.2	SE213894.019	%	60 - 130%	109
	BH120_0.2	SE213894.020	%	60 - 130%	102
	BH121_0.2	SE213894.021	%	60 - 130%	106
	BH122_0.2	SE213894.022	%	60 - 130%	109
	BH123_0.2	SE213894.023	%	60 - 130%	111
	BH124_0.2	SE213894.024	%	60 - 130%	103
	BH125_0.1	SE213894.025	%	60 - 130%	103
	BH126_0.2	SE213894.026	%	60 - 130%	106
	BH127_0.2	SE213894.027	%	60 - 130%	83
	BH128_0.2	SE213894.028	%	60 - 130%	96
	BH129_0.2	SE213894.029	%	60 - 130%	102
	BH130_0.2	SE213894.030	%	60 - 130%	122
	BH131_0.2	SE213894.031	%	60 - 130%	103
	BH132_0.2	SE213894.032	%	60 - 130%	107
	BH133_0.2	SE213894.033	%	60 - 130%	103
	BH134_0.2	SE213894.034	%	60 - 130%	109
	BH135_0.2	SE213894.035	%	60 - 130%	106
	BH136_0.3	SE213894.036	%	60 - 130%	104
	BH137_0.2	SE213894.037	%	60 - 130%	104
	BH138_0.4	SE213894.038	%	60 - 130%	96
	BH139_0.3	SE213894.039	%	60 - 130%	104
	BH140_0.1	SE213894.040	%	60 - 130%	102
	BH141_0.2	SE213894.041	%	60 - 130%	104
	BH142_0.2	SE213894.042	%	60 - 130%	106
	BH143_0.2	SE213894.043	%	60 - 130%	103
	BH144_0.2	SE213894.044	%	60 - 130%	103
	BH145_0.1	SE213894.045	%	60 - 130%	107
	BH146_0.1	SE213894.046	%	60 - 130%	103
	BH147_0.1	SE213894.047	%	60 - 130%	102
	BH148_0.2	SE213894.048	%	60 - 130%	103
	BH149_0.4	SE213894.049	%	60 - 130%	108
	BH150_0.2	SE213894.050	%	60 - 130%	104
	BH151_0.2	SE213894.051	%	60 - 130%	101
	BH152_0.2	SE213894.052	%	60 - 130%	106
	BH153_0.1	SE213894.053	%	60 - 130%	94
	BH154_0.2	SE213894.054	%	60 - 130%	86
	BH156_0.3	SE213894.055	%	60 - 130%	85
	BH103_0.7	SE213894.058	%	60 - 130%	91
	BH107_0.8	SE213894.059	%	60 - 130%	89

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

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VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH109_0.8	SE213894.060	%	60 - 130%	98
	BH110_0.8	SE213894.061	%	60 - 130%	93
	BH112_0.7	SE213894.062	%	60 - 130%	89
	BH123_0.7	SE213894.063	%	60 - 130%	86
	BH126_0.7	SE213894.064	%	60 - 130%	85
	BH128_0.7	SE213894.065	%	60 - 130%	81
	BH133_0.7	SE213894.066	%	60 - 130%	89
	BH135_0.7	SE213894.067	%	60 - 130%	91
	BH139_0.8	SE213894.068	%	60 - 130%	88
	BH142_0.7	SE213894.069	%	60 - 130%	89
	BH143_0.7	SE213894.070	%	60 - 130%	87
	BH150_0.7	SE213894.071	%	60 - 130%	87
	BH152_0.7	SE213894.072	%	60 - 130%	87
	BH153_0.7	SE213894.073	%	60 - 130%	88
	BH155_0.8	SE213894.074	%	60 - 130%	81
	BH156_0.8	SE213894.075	%	60 - 130%	98
	QD-1	SE213894.076	%	60 - 130%	85
	QD-2	SE213894.077	%	60 - 130%	99
	QD-3	SE213894.078	%	60 - 130%	91
	QD-4	SE213894.079	%	60 - 130%	103
	Trip Blank	SE213894.080	%	60 - 130%	121
	Trip Spike	SE213894.081	%	60 - 130%	85
	BH155_0.3	SE213894.083	%	60 - 130%	92

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR-1	SE213894.082	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	QR-1	SE213894.082	%	40 - 130%	94
d8-toluene (Surrogate)	QR-1	SE213894.082	%	40 - 130%	96

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	97
	BH102_0.2	SE213894.002	%	60 - 130%	94
	BH103_0.2	SE213894.003	%	60 - 130%	98
	BH104_0.3	SE213894.004	%	60 - 130%	95
	BH105_0.4	SE213894.005	%	60 - 130%	95
	BH106_0.3	SE213894.006	%	60 - 130%	97
	BH107_0.3	SE213894.007	%	60 - 130%	100
	BH108_0.3	SE213894.008	%	60 - 130%	101
	BH109_0.3	SE213894.009	%	60 - 130%	99
	BH110_0.3	SE213894.010	%	60 - 130%	100
	BH111_0.2	SE213894.011	%	60 - 130%	98
	BH112_0.2	SE213894.012	%	60 - 130%	96
	BH113_0.3	SE213894.013	%	60 - 130%	113
	BH114_0.4	SE213894.014	%	60 - 130%	94
	BH115_0.2	SE213894.015	%	60 - 130%	104
	BH116_0.3	SE213894.016	%	60 - 130%	103
	BH117_0.3	SE213894.017	%	60 - 130%	103
	BH118_0.2	SE213894.018	%	60 - 130%	105
	BH119_0.2	SE213894.019	%	60 - 130%	105
	BH120_0.2	SE213894.020	%	60 - 130%	101
	BH121_0.2	SE213894.021	%	60 - 130%	107
	BH122_0.2	SE213894.022	%	60 - 130%	104
	BH123_0.2	SE213894.023	%	60 - 130%	103
	BH124_0.2	SE213894.024	%	60 - 130%	106
	BH125_0.1	SE213894.025	%	60 - 130%	111
	BH126_0.2	SE213894.026	%	60 - 130%	100
	BH127_0.2	SE213894.027	%	60 - 130%	100
	BH128_0.2	SE213894.028	%	60 - 130%	105
	BH129_0.2	SE213894.029	%	60 - 130%	110
	BH130_0.2	SE213894.030	%	60 - 130%	111

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)	BH131_0.2	SE213894.031	%	60 - 130%	91
	BH132_0.2	SE213894.032	%	60 - 130%	80
	BH133_0.2	SE213894.033	%	60 - 130%	73
	BH134_0.2	SE213894.034	%	60 - 130%	78
	BH135_0.2	SE213894.035	%	60 - 130%	75
	BH136_0.3	SE213894.036	%	60 - 130%	72
	BH137_0.2	SE213894.037	%	60 - 130%	73
	BH138_0.4	SE213894.038	%	60 - 130%	67
	BH139_0.3	SE213894.039	%	60 - 130%	72
	BH140_0.1	SE213894.040	%	60 - 130%	71
	BH141_0.2	SE213894.041	%	60 - 130%	72
	BH142_0.2	SE213894.042	%	60 - 130%	72
	BH143_0.2	SE213894.043	%	60 - 130%	69
	BH144_0.2	SE213894.044	%	60 - 130%	69
	BH145_0.1	SE213894.045	%	60 - 130%	71
	BH146_0.1	SE213894.046	%	60 - 130%	68
	BH147_0.1	SE213894.047	%	60 - 130%	67
	BH148_0.2	SE213894.048	%	60 - 130%	67
	BH149_0.4	SE213894.049	%	60 - 130%	71
	BH150_0.2	SE213894.050	%	60 - 130%	68
	BH151_0.2	SE213894.051	%	60 - 130%	64
	BH152_0.2	SE213894.052	%	60 - 130%	69
	BH153_0.1	SE213894.053	%	60 - 130%	100
	BH154_0.2	SE213894.054	%	60 - 130%	90
	BH156_0.3	SE213894.055	%	60 - 130%	92
	BH103_0.7	SE213894.058	%	60 - 130%	92
	BH107_0.8	SE213894.059	%	60 - 130%	93
	BH109_0.8	SE213894.060	%	60 - 130%	95
	BH110_0.8	SE213894.061	%	60 - 130%	95
	BH112_0.7	SE213894.062	%	60 - 130%	101
	BH123_0.7	SE213894.063	%	60 - 130%	99
	BH126_0.7	SE213894.064	%	60 - 130%	97
	BH128_0.7	SE213894.065	%	60 - 130%	88
	BH133_0.7	SE213894.066	%	60 - 130%	96
	BH135_0.7	SE213894.067	%	60 - 130%	96
	BH139_0.8	SE213894.068	%	60 - 130%	93
	BH142_0.7	SE213894.069	%	60 - 130%	94
	BH143_0.7	SE213894.070	%	60 - 130%	93
	BH150_0.7	SE213894.071	%	60 - 130%	89
	BH152_0.7	SE213894.072	%	60 - 130%	95
	BH153_0.7	SE213894.073	%	60 - 130%	97
	BH155_0.8	SE213894.074	%	60 - 130%	98
	BH156_0.8	SE213894.075	%	60 - 130%	95
	QD-1	SE213894.076	%	60 - 130%	104
	QD-2	SE213894.077	%	60 - 130%	103
	QD-3	SE213894.078	%	60 - 130%	99
	QD-4	SE213894.079	%	60 - 130%	110
	BH155_0.3	SE213894.083	%	60 - 130%	99
d4-1,2-dichloroethane (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	101
	BH102_0.2	SE213894.002	%	60 - 130%	102
	BH103_0.2	SE213894.003	%	60 - 130%	114
	BH104_0.3	SE213894.004	%	60 - 130%	107
	BH105_0.4	SE213894.005	%	60 - 130%	110
	BH106_0.3	SE213894.006	%	60 - 130%	94
	BH107_0.3	SE213894.007	%	60 - 130%	93
	BH108_0.3	SE213894.008	%	60 - 130%	104
	BH109_0.3	SE213894.009	%	60 - 130%	107
	BH110_0.3	SE213894.010	%	60 - 130%	101
	BH111_0.2	SE213894.011	%	60 - 130%	103
	BH112_0.2	SE213894.012	%	60 - 130%	89
	BH113_0.3	SE213894.013	%	60 - 130%	104

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

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Volatile Petroleum Hydrocarbons in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH114_0.4	SE213894.014	%	60 - 130%	112
	BH115_0.2	SE213894.015	%	60 - 130%	111
	BH116_0.3	SE213894.016	%	60 - 130%	110
	BH117_0.3	SE213894.017	%	60 - 130%	88
	BH118_0.2	SE213894.018	%	60 - 130%	127
	BH119_0.2	SE213894.019	%	60 - 130%	104
	BH120_0.2	SE213894.020	%	60 - 130%	106
	BH121_0.2	SE213894.021	%	60 - 130%	113
	BH122_0.2	SE213894.022	%	60 - 130%	119
	BH123_0.2	SE213894.023	%	60 - 130%	116
	BH124_0.2	SE213894.024	%	60 - 130%	116
	BH125_0.1	SE213894.025	%	60 - 130%	115
	BH126_0.2	SE213894.026	%	60 - 130%	121
	BH127_0.2	SE213894.027	%	60 - 130%	86
	BH128_0.2	SE213894.028	%	60 - 130%	97
	BH129_0.2	SE213894.029	%	60 - 130%	114
	BH130_0.2	SE213894.030	%	60 - 130%	134 Ⓢ
	BH131_0.2	SE213894.031	%	60 - 130%	97
	BH132_0.2	SE213894.032	%	60 - 130%	98
	BH133_0.2	SE213894.033	%	60 - 130%	96
	BH134_0.2	SE213894.034	%	60 - 130%	100
	BH135_0.2	SE213894.035	%	60 - 130%	98
	BH136_0.3	SE213894.036	%	60 - 130%	97
	BH137_0.2	SE213894.037	%	60 - 130%	96
	BH138_0.4	SE213894.038	%	60 - 130%	90
	BH139_0.3	SE213894.039	%	60 - 130%	95
	BH140_0.1	SE213894.040	%	60 - 130%	95
	BH141_0.2	SE213894.041	%	60 - 130%	96
	BH142_0.2	SE213894.042	%	60 - 130%	96
	BH143_0.2	SE213894.043	%	60 - 130%	95
	BH144_0.2	SE213894.044	%	60 - 130%	95
	BH145_0.1	SE213894.045	%	60 - 130%	97
	BH146_0.1	SE213894.046	%	60 - 130%	94
	BH147_0.1	SE213894.047	%	60 - 130%	93
	BH148_0.2	SE213894.048	%	60 - 130%	92
	BH149_0.4	SE213894.049	%	60 - 130%	98
	BH150_0.2	SE213894.050	%	60 - 130%	95
	BH151_0.2	SE213894.051	%	60 - 130%	94
	BH152_0.2	SE213894.052	%	60 - 130%	96
	BH153_0.1	SE213894.053	%	60 - 130%	107
	BH154_0.2	SE213894.054	%	60 - 130%	97
	BH156_0.3	SE213894.055	%	60 - 130%	95
	BH103_0.7	SE213894.058	%	60 - 130%	102
	BH107_0.8	SE213894.059	%	60 - 130%	102
	BH109_0.8	SE213894.060	%	60 - 130%	97
	BH110_0.8	SE213894.061	%	60 - 130%	96
	BH112_0.7	SE213894.062	%	60 - 130%	95
	BH123_0.7	SE213894.063	%	60 - 130%	93
	BH126_0.7	SE213894.064	%	60 - 130%	97
	BH128_0.7	SE213894.065	%	60 - 130%	87
	BH133_0.7	SE213894.066	%	60 - 130%	96
	BH135_0.7	SE213894.067	%	60 - 130%	98
	BH139_0.8	SE213894.068	%	60 - 130%	94
	BH142_0.7	SE213894.069	%	60 - 130%	93
	BH143_0.7	SE213894.070	%	60 - 130%	101
	BH150_0.7	SE213894.071	%	60 - 130%	99
	BH152_0.7	SE213894.072	%	60 - 130%	95
	BH153_0.7	SE213894.073	%	60 - 130%	94
	BH155_0.8	SE213894.074	%	60 - 130%	86
	BH156_0.8	SE213894.075	%	60 - 130%	106
	QD-1	SE213894.076	%	60 - 130%	94

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

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason 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 %
d4-1,2-dichloroethane (Surrogate)	QD-2	SE213894.077	%	60 - 130%	104
	QD-3	SE213894.078	%	60 - 130%	94
	QD-4	SE213894.079	%	60 - 130%	107
	BH155_0.3	SE213894.083	%	60 - 130%	97
d8-toluene (Surrogate)	BH101_0.3	SE213894.001	%	60 - 130%	98
	BH102_0.2	SE213894.002	%	60 - 130%	94
	BH103_0.2	SE213894.003	%	60 - 130%	105
	BH104_0.3	SE213894.004	%	60 - 130%	104
	BH105_0.4	SE213894.005	%	60 - 130%	104
	BH106_0.3	SE213894.006	%	60 - 130%	90
	BH107_0.3	SE213894.007	%	60 - 130%	88
	BH108_0.3	SE213894.008	%	60 - 130%	104
	BH109_0.3	SE213894.009	%	60 - 130%	107
	BH110_0.3	SE213894.010	%	60 - 130%	101
	BH111_0.2	SE213894.011	%	60 - 130%	101
	BH112_0.2	SE213894.012	%	60 - 130%	81
	BH113_0.3	SE213894.013	%	60 - 130%	91
	BH114_0.4	SE213894.014	%	60 - 130%	103
	BH115_0.2	SE213894.015	%	60 - 130%	103
	BH116_0.3	SE213894.016	%	60 - 130%	102
	BH117_0.3	SE213894.017	%	60 - 130%	82
	BH118_0.2	SE213894.018	%	60 - 130%	112
	BH119_0.2	SE213894.019	%	60 - 130%	109
	BH120_0.2	SE213894.020	%	60 - 130%	102
	BH121_0.2	SE213894.021	%	60 - 130%	106
	BH122_0.2	SE213894.022	%	60 - 130%	109
	BH123_0.2	SE213894.023	%	60 - 130%	111
	BH124_0.2	SE213894.024	%	60 - 130%	103
	BH125_0.1	SE213894.025	%	60 - 130%	103
	BH126_0.2	SE213894.026	%	60 - 130%	106
	BH127_0.2	SE213894.027	%	60 - 130%	83
	BH128_0.2	SE213894.028	%	60 - 130%	96
	BH129_0.2	SE213894.029	%	60 - 130%	102
	BH130_0.2	SE213894.030	%	60 - 130%	122
	BH131_0.2	SE213894.031	%	60 - 130%	103
	BH132_0.2	SE213894.032	%	60 - 130%	107
	BH133_0.2	SE213894.033	%	60 - 130%	103
	BH134_0.2	SE213894.034	%	60 - 130%	109
	BH135_0.2	SE213894.035	%	60 - 130%	106
	BH136_0.3	SE213894.036	%	60 - 130%	104
	BH137_0.2	SE213894.037	%	60 - 130%	104
	BH138_0.4	SE213894.038	%	60 - 130%	96
	BH139_0.3	SE213894.039	%	60 - 130%	104
	BH140_0.1	SE213894.040	%	60 - 130%	102
	BH141_0.2	SE213894.041	%	60 - 130%	104
	BH142_0.2	SE213894.042	%	60 - 130%	106
	BH143_0.2	SE213894.043	%	60 - 130%	103
	BH144_0.2	SE213894.044	%	60 - 130%	103
	BH145_0.1	SE213894.045	%	60 - 130%	107
	BH146_0.1	SE213894.046	%	60 - 130%	103
	BH147_0.1	SE213894.047	%	60 - 130%	102
	BH148_0.2	SE213894.048	%	60 - 130%	103
	BH149_0.4	SE213894.049	%	60 - 130%	108
	BH150_0.2	SE213894.050	%	60 - 130%	104
	BH151_0.2	SE213894.051	%	60 - 130%	101
	BH152_0.2	SE213894.052	%	60 - 130%	106
	BH153_0.1	SE213894.053	%	60 - 130%	94
	BH154_0.2	SE213894.054	%	60 - 130%	86
	BH156_0.3	SE213894.055	%	60 - 130%	85
	BH103_0.7	SE213894.058	%	60 - 130%	91
	BH107_0.8	SE213894.059	%	60 - 130%	89

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

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

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH109_0.8	SE213894.060	%	60 - 130%	98
	BH110_0.8	SE213894.061	%	60 - 130%	93
	BH112_0.7	SE213894.062	%	60 - 130%	89
	BH123_0.7	SE213894.063	%	60 - 130%	86
	BH126_0.7	SE213894.064	%	60 - 130%	85
	BH128_0.7	SE213894.065	%	60 - 130%	81
	BH133_0.7	SE213894.066	%	60 - 130%	89
	BH135_0.7	SE213894.067	%	60 - 130%	91
	BH139_0.8	SE213894.068	%	60 - 130%	88
	BH142_0.7	SE213894.069	%	60 - 130%	89
	BH143_0.7	SE213894.070	%	60 - 130%	87
	BH150_0.7	SE213894.071	%	60 - 130%	87
	BH152_0.7	SE213894.072	%	60 - 130%	87
	BH153_0.7	SE213894.073	%	60 - 130%	88
	BH155_0.8	SE213894.074	%	60 - 130%	81
	BH156_0.8	SE213894.075	%	60 - 130%	98
	QD-1	SE213894.076	%	60 - 130%	85
	QD-2	SE213894.077	%	60 - 130%	99
	QD-3	SE213894.078	%	60 - 130%	91
	QD-4	SE213894.079	%	60 - 130%	103
	BH155_0.3	SE213894.083	%	60 - 130%	92

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR-1	SE213894.082	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	QR-1	SE213894.082	%	60 - 130%	94
d8-toluene (Surrogate)	QR-1	SE213894.082	%	40 - 130%	96

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

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

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB214230.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB214138.001	Mercury	mg/kg	0.05	<0.05
LB214139.001	Mercury	mg/kg	0.05	<0.05
LB214140.001	Mercury	mg/kg	0.05	<0.05
LB214141.001	Mercury	mg/kg	0.05	<0.05
LB214144.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB214050.001	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
LB214051.001	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-
	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.2	<0.2
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	90

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

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

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB214052.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.2	<0.2
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98
LB214053.001	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
	Alpha BHC	mg/kg	0.1	<0.1
	Lindane	mg/kg	0.1	<0.1
	Heptachlor	mg/kg	0.1	<0.1
	Aldrin	mg/kg	0.1	<0.1
	Beta BHC	mg/kg	0.1	<0.1
	Delta BHC	mg/kg	0.1	<0.1
	Heptachlor epoxide	mg/kg	0.1	<0.1
	Alpha Endosulfan	mg/kg	0.2	<0.2
	Gamma Chlordane	mg/kg	0.1	<0.1
	Alpha Chlordane	mg/kg	0.1	<0.1
	p,p'-DDE	mg/kg	0.1	<0.1
	Dieldrin	mg/kg	0.2	<0.2
	Endrin	mg/kg	0.2	<0.2
	Beta Endosulfan	mg/kg	0.2	<0.2
	p,p'-DDD	mg/kg	0.1	<0.1
	p,p'-DDT	mg/kg	0.1	<0.1
	Endosulfan sulphate	mg/kg	0.1	<0.1
	Endrin Aldehyde	mg/kg	0.1	<0.1
	Methoxychlor	mg/kg	0.1	<0.1
	Endrin Ketone	mg/kg	0.1	<0.1
	Isodrin	mg/kg	0.1	<0.1
	Mirex	mg/kg	0.1	<0.1
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	92

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB214050.001	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

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.

OP Pesticides in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB214050.001	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
	2-fluorobiphenyl (Surrogate)	%	-	93
	d14-p-terphenyl (Surrogate)	%	-	97
LB214051.001	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
	2-fluorobiphenyl (Surrogate)	%	-	94
	d14-p-terphenyl (Surrogate)	%	-	98
	Dichlorvos	mg/kg	0.5	<0.5
	Dimethoate	mg/kg	0.5	<0.5
LB214052.001	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
	2-fluorobiphenyl (Surrogate)	%	-	100
	d14-p-terphenyl (Surrogate)	%	-	100
	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
LB214053.001	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
	2-fluorobiphenyl (Surrogate)	%	-	91
	d14-p-terphenyl (Surrogate)	%	-	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB214050.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1

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)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB214050.001	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	96
	2-fluorobiphenyl (Surrogate)	%	-	93
LB214051.001	d14-p-terphenyl (Surrogate)	%	-	97
	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	93
	2-fluorobiphenyl (Surrogate)	%	-	94
	d14-p-terphenyl (Surrogate)	%	-	98
LB214052.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	99
	2-fluorobiphenyl (Surrogate)	%	-	100
	d14-p-terphenyl (Surrogate)	%	-	100
LB214053.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8

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)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB214053.001	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	102
	2-fluorobiphenyl (Surrogate)	%	-	91
LB214054.001	d14-p-terphenyl (Surrogate)	%	-	94
	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
	Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
	Benzo(ghi)perylene	mg/kg	0.1	<0.1
	Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates			
	d5-nitrobenzene (Surrogate)	%	-	104
	2-fluorobiphenyl (Surrogate)	%	-	102
	d14-p-terphenyl (Surrogate)	%	-	91

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB214050.001	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
LB214051.001	Surrogates			
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	100
	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
LB214052.001	Surrogates			
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	90
	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
LB214053.001	Surrogates			
	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98
	Arochlor 1016	mg/kg	0.2	<0.2
LB214053.001	Arochlor 1221	mg/kg	0.2	<0.2

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

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

PCBs in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result
LB214053.001	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)	%	-	92

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

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

Sample Number	Parameter	Units	LOR	Result
LB214125.001	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
LB214130.001	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
LB214131.001	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
LB214132.001	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
LB214134.001	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

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]JAN318

Sample Number	Parameter	Units	LOR	Result
LB214088.001	Arsenic, As	µg/L	1	<1
	Cadmium, Cd	µg/L	0.1	<0.1
	Chromium, Cr	µg/L	1	<1
	Copper, Cu	µg/L	1	<1
	Lead, Pb	µg/L	1	<1
	Nickel, Ni	µg/L	1	<1
	Zinc, Zn	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN030

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.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB214050.001	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
LB214051.001	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
LB214052.001	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
LB214053.001	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
LB214054.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB214074.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB214044.001	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	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	122
		d8-toluene (Surrogate)	%	-	116
		Bromofluorobenzene (Surrogate)	%	-	109
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB214045.001	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	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	107
		d8-toluene (Surrogate)	%	-	94
		Bromofluorobenzene (Surrogate)	%	-	89
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB214046.001	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	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104

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

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

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB214046.001	Surrogates	d8-toluene (Surrogate)	%	-	112
		Bromofluorobenzene (Surrogate)	%	-	86
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB214047.001	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	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	100
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	93
	Totals	Total BTEX	mg/kg	0.6	<0.6
LB214048.001	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	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	114
		d8-toluene (Surrogate)	%	-	110
		Bromofluorobenzene (Surrogate)	%	-	117
	Totals	Total BTEX	mg/kg	0.6	<0.6

VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB214173.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	95
		Bromofluorobenzene (Surrogate)	%	-	101

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB214044.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	122
LB214045.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	107
LB214046.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104
LB214047.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	100
LB214048.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	114

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Number		Parameter	Units	LOR	Result
LB214173.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	95
		Bromofluorobenzene (Surrogate)	%	-	101

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.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213866.010	LB214230.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	133	0

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213881.021	LB214144.014	Mercury	mg/kg	0.05	<0.05	0.08	110	42
SE213881.029	LB214144.023	Mercury	mg/kg	0.05	0.06	0.07	107	9
SE213894.010	LB214138.014	Mercury	mg/kg	0.05	0.12	0.12	71	0
SE213894.019	LB214138.024	Mercury	mg/kg	0.05	<0.05	0.05	133	2
SE213894.029	LB214139.014	Mercury	mg/kg	0.05	<0.05	<0.05	142	0
SE213894.038	LB214139.024	Mercury	mg/kg	0.05	<0.05	<0.05	184	0
SE213894.048	LB214140.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE213894.059	LB214140.024	Mercury	mg/kg	0.05	0.22	0.25	51	10
SE213894.069	LB214141.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE213894.078	LB214141.024	Mercury	mg/kg	0.05	0.05	0.06	116	10

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213856.010	LB214056.011	% Moisture	%w/w	1	13.4	14.3	37	7
SE213881.002	LB214060.011	% Moisture	%w/w	1	4.3	3.6	55	18
SE213881.010	LB214060.020	% Moisture	%w/w	1	7.6	9.0	42	17
SE213894.010	LB214056.024	% Moisture	%w/w	1	17.3	17.3	36	0
SE213894.020	LB214057.011	% Moisture	%w/w	1	19.5	19.2	35	1
SE213894.030	LB214057.022	% Moisture	%w/w	1	16.3	15.5	36	5
SE213894.031	LB214057.024	% Moisture	%w/w	1	12.6	10.4	39	19
SE213894.041	LB214058.011	% Moisture	%w/w	1	16.7	17.7	36	6
SE213894.052	LB214058.024	% Moisture	%w/w	1	10.1	11.0	39	9
SE213894.064	LB214059.011	% Moisture	%w/w	1	19.6	19.7	35	1
SE213894.073	LB214059.021	% Moisture	%w/w	1	8.3	6.6	43	22

OC Pesticides in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.010	LB214050.027	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
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	1

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.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.020	LB214051.014	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30
SE213894.031	LB214051.029	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30
SE213894.041	LB214052.014	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

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.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.041	LB214052.014	Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15
SE213894.052	LB214052.029	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Lindane	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
		Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	200	0
		Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
Mirex	mg/kg	0.1	<0.1	<0.1	200	0		
Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0		
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	30	5
SE213894.055	LB214053.026	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0	200	0
		Alpha BHC	mg/kg	0.1	<0.1	0	200	0
		Lindane	mg/kg	0.1	<0.1	0	200	0
		Heptachlor	mg/kg	0.1	<0.1	0	200	0
		Aldrin	mg/kg	0.1	<0.1	0	200	0
		Beta BHC	mg/kg	0.1	<0.1	0	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.

OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.055	LB214053.026	Delta BHC	mg/kg	0.1	<0.1	0	200	0
		Heptachlor epoxide	mg/kg	0.1	<0.1	0	200	0
		o,p'-DDE	mg/kg	0.1	<0.1	0	200	0
		Alpha Endosulfan	mg/kg	0.2	<0.2	0	200	0
		Gamma Chlordane	mg/kg	0.1	<0.1	0	200	0
		Alpha Chlordane	mg/kg	0.1	<0.1	0	200	0
		trans-Nonachlor	mg/kg	0.1	<0.1	0	200	0
		p,p'-DDE	mg/kg	0.1	<0.1	0	200	0
		Dieldrin	mg/kg	0.2	<0.2	0	200	0
		Endrin	mg/kg	0.2	<0.2	0	200	0
		o,p'-DDD	mg/kg	0.1	<0.1	0	200	0
		o,p'-DDT	mg/kg	0.1	<0.1	0	200	0
		Beta Endosulfan	mg/kg	0.2	<0.2	0	200	0
		p,p'-DDD	mg/kg	0.1	<0.1	0	200	0
		p,p'-DDT	mg/kg	0.1	<0.1	0	200	0
		Endosulfan sulphate	mg/kg	0.1	<0.1	0	200	0
		Endrin Aldehyde	mg/kg	0.1	<0.1	0	200	0
		Methoxychlor	mg/kg	0.1	<0.1	0	200	0
		Endrin Ketone	mg/kg	0.1	<0.1	0	200	0
		Isodrin	mg/kg	0.1	<0.1	0	200	0
		Mirex	mg/kg	0.1	<0.1	0	200	0
		Total CLP OC Pesticides	mg/kg	1	<1	0	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.14	30	0

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.010	LB214050.027	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	6
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE213894.020	LB214051.014	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	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	5
SE213894.041	LB214052.014	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

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.

OP Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.041	LB214052.014	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	4
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE213894.052	LB214052.029	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
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213881.001	LB214054.023	Naphthalene	mg/kg	0.1	0.1	0.1	111	11
		2-methylnaphthalene	mg/kg	0.1	0.2	0.4	66	69 @
		1-methylnaphthalene	mg/kg	0.1	0.1	0.2	97	47
		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	183	0
		Phenanthrene	mg/kg	0.1	0.3	0.3	61	1
		Anthracene	mg/kg	0.1	<0.1	<0.1	143	0
		Fluoranthene	mg/kg	0.1	0.4	0.4	54	9
		Pyrene	mg/kg	0.1	0.5	0.5	50	12
		Benzo(a)anthracene	mg/kg	0.1	0.2	0.2	76	18
		Chrysene	mg/kg	0.1	0.3	0.2	69	15
		Benzo(b&j)fluoranthene	mg/kg	0.1	0.2	0.2	78	28
		Benzo(k)fluoranthene	mg/kg	0.1	0.2	0.1	97	32
		Benzo(a)pyrene	mg/kg	0.1	0.3	0.2	68	25
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	<0.1	114	35
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	0.2	0.1	91	55
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	0.4	0.3	70	29
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	mg/kg	0.3	0.5	0.4	78	20
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	mg/kg	0.2	0.4	0.3	62	24
		Total PAH (18)	mg/kg	0.8	3.3	3.0	55	9
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	6
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	30	5
SE213894.010	LB214050.027	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

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.010	LB214050.027	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	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
SE213894.020	LB214051.014	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		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	-	0.4	0.4	30	0
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	5
SE213894.041	LB214052.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	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	0.4	30	4

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.041	LB214052.014	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE213894.052	LB214052.029		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	0.4	30	7
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE213894.064	LB214053.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR	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	5
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
SE213894.073	LB214053.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.073	LB214053.024	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	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.010	LB214050.027	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
		Surrogates						
SE213894.020	LB214051.014	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
		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
SE213894.031	LB214051.029	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	2
		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
SE213894.041	LB214052.014	Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	3
		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

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.

PCBs in Soil (continued)

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.041	LB214052.014	Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	4
SE213894.052	LB214052.029	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
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	30	5
SE213894.055	LB214053.026	Arochlor 1016	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1262	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1268	mg/kg	0.2	<0.2	0	200	0
		Total PCBs (Arochlors)	mg/kg	1	<1	0	200	0
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0.14	30	0

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

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213881.021	LB214134.014	Arsenic, As	mg/kg	1	2	2	79	18
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	18	14	33	30
		Copper, Cu	mg/kg	0.5	<0.5	<0.5	200	0
		Nickel, Ni	mg/kg	0.5	0.8	1.0	84	21
		Lead, Pb	mg/kg	1	5	5	51	7
		Zinc, Zn	mg/kg	2	3.7	4.2	81	15
SE213881.029	LB214134.023	Arsenic, As	mg/kg	1	2	1	97	15
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	2.2	3.4	48	41
		Copper, Cu	mg/kg	0.5	5.8	9.2	37	45 @
		Nickel, Ni	mg/kg	0.5	1.3	1.5	66	18
		Lead, Pb	mg/kg	1	28	48	33	54 @
		Zinc, Zn	mg/kg	2	29	33	36	13
SE213894.010	LB214125.014	Arsenic, As	mg/kg	1	9	9	41	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	10	9.9	35	3
		Copper, Cu	mg/kg	0.5	11	12	34	3
		Nickel, Ni	mg/kg	0.5	7.2	7.1	37	1
		Lead, Pb	mg/kg	1	13	13	38	1
		Zinc, Zn	mg/kg	2	35	37	36	6
SE213894.019	LB214125.024	Arsenic, As	mg/kg	1	5	5	50	6
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	12	11	34	5
		Copper, Cu	mg/kg	0.5	15	14	33	5
		Nickel, Ni	mg/kg	0.5	7.9	8.3	36	5
		Lead, Pb	mg/kg	1	9	9	41	1
		Zinc, Zn	mg/kg	2	29	28	37	2
SE213894.029	LB214130.014	Arsenic, As	mg/kg	1	8	6	45	26
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	13	12	34	10
		Copper, Cu	mg/kg	0.5	10	9.0	35	11
		Nickel, Ni	mg/kg	0.5	2.3	1.8	54	25
		Lead, Pb	mg/kg	1	6	5	48	11

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.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-ENVJAN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.029	LB214130.014	Zinc, Zn	mg/kg	2	8.6	6.6	56	26
SE213894.038	LB214130.024	Arsenic, As	mg/kg	1	<1	1	119	30
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	3.7	4.2	43	13
		Copper, Cu	mg/kg	0.5	0.7	0.6	108	18
		Nickel, Ni	mg/kg	0.5	0.6	0.7	106	4
		Lead, Pb	mg/kg	1	4	5	52	15
		Zinc, Zn	mg/kg	2	<2.0	<2.0	185	0
SE213894.048	LB214131.014	Arsenic, As	mg/kg	1	6	5	48	18
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	9.9	9.3	35	6
		Copper, Cu	mg/kg	0.5	8.7	8.0	36	8
		Nickel, Ni	mg/kg	0.5	2.3	2.4	51	3
		Lead, Pb	mg/kg	1	10	8	41	24
		Zinc, Zn	mg/kg	2	10	11	49	6
SE213894.059	LB214131.024	Arsenic, As	mg/kg	1	13	11	39	14
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	13	33	17
		Copper, Cu	mg/kg	0.5	24	21	32	15
		Nickel, Ni	mg/kg	0.5	4.1	3.6	43	14
		Lead, Pb	mg/kg	1	14	13	37	12
		Zinc, Zn	mg/kg	2	24	21	39	14
SE213894.069	LB214132.014	Arsenic, As	mg/kg	1	12	11	39	7
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	26	25	32	5
		Copper, Cu	mg/kg	0.5	7.8	6.6	37	17
		Nickel, Ni	mg/kg	0.5	0.6	<0.5	131	11
		Lead, Pb	mg/kg	1	4	4	55	3
		Zinc, Zn	mg/kg	2	4.3	3.7	80	15
SE213894.078	LB214132.024	Arsenic, As	mg/kg	1	15	17	36	12
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	8.3	9.2	36	10
		Copper, Cu	mg/kg	0.5	4.4	5.2	40	16
		Nickel, Ni	mg/kg	0.5	2.3	2.6	51	12
		Lead, Pb	mg/kg	1	7	7	44	9
		Zinc, Zn	mg/kg	2	5.1	5.8	67	13

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-ENVJAN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213923.001	LB214088.014	Arsenic, As	µg/L	1	<1	<1	200	0
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	<1	<1	200	0
		Copper, Cu	µg/L	1	<1	<1	185	0
		Lead, Pb	µg/L	1	<1	<1	200	0
		Nickel, Ni	µg/L	1	3	3	47	3
		Zinc, Zn	µg/L	5	11	11	59	2
SE213923.003	LB214088.017	Arsenic, As	µg/L	1	<1	<1	200	0
		Cadmium, Cd	µg/L	0.1	0.1	0.1	102	0
		Chromium, Cr	µg/L	1	<1	<1	200	0
		Copper, Cu	µg/L	1	<1	<1	200	0
		Lead, Pb	µg/L	1	<1	<1	200	0
		Nickel, Ni	µg/L	1	8	7	28	6
		Zinc, Zn	µg/L	5	12	13	55	14

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213856.010	LB214050.014	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = \frac{|OriginalResult - ReplicateResult|}{Mean} \times 100$

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: $MAD = 100 \times \frac{SDL}{Mean} + LR$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213856.010	LB214050.014	TRH F Bands	TRH >C10-C16	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
SE213881.001	LB214054.023		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	52	52	117	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE213881.010	LB214054.022		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE213894.010	LB214050.027		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE213894.020	LB214051.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	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
SE213894.030	LB214051.028		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE213894.031	LB214051.029		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0

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.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.031	LB214051.029	TRH F Bands	TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE213894.041	LB214052.014		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 F Bands	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
SE213894.052	LB214052.029		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 F Bands	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
SE213894.064	LB214053.014		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 F Bands	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
SE213894.073	LB214053.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
		TRH F Bands	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 (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE213882.002	LB214074.024	TRH C10-C14	µg/L	50	<50	0	200	0	
		TRH C15-C28	µg/L	200	<200	0	200	0	
		TRH C29-C36	µg/L	200	<200	0	200	0	
		TRH C37-C40	µg/L	200	<200	0	200	0	
		TRH C10-C40	µg/L	320	<320	0	200	0	
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	0	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	0	200	0	
		TRH >C16-C34 (F3)	µg/L	500	<500	0	200	0	
		TRH >C34-C40 (F4)	µg/L	500	<500	0	200	0	
SE213923.003	LB214074.023	TRH C10-C14	µg/L	50	<50	0	200	0	
		TRH C15-C28	µg/L	200	<200	0	200	0	
		TRH C29-C36	µg/L	200	<200	0	200	0	
		TRH C37-C40	µg/L	200	<200	0	200	0	
		TRH C10-C40	µg/L	320	<320	0	200	0	
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	0	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	-0.0043520169	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.

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213923.003	LB214074.023	TRH F Bands	µg/L	500	<500	0	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	0	200	0

VOC's in Soil

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213881.001	LB214048.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene		mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene		mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic		Naphthalene	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	10.3	50	16
			d8-toluene (Surrogate)	mg/kg	-	10.9	9.4	50	15
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10.9	50	8
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213881.010	LB214048.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene		mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene		mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic		Naphthalene	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	9.9	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.8	12.0	50	30
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	9.1	50	12
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213894.010	LB214044.025	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene		mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene		mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic		Naphthalene	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	10.8	50	7
			d8-toluene (Surrogate)	mg/kg	-	10.1	11.3	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10.0	50	0
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213894.020	LB214045.015	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene		mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene		mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic		Naphthalene	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	11.0	50	4
			d8-toluene (Surrogate)	mg/kg	-	10.2	10.2	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.7	50	4
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213894.031	LB214045.030	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200
		Ethylbenzene		mg/kg	0.1	<0.1	<0.1	200	0
		m/p-xylene		mg/kg	0.2	<0.2	<0.2	200	0
		o-xylene		mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic		Naphthalene	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	12.0	50	21
			d8-toluene (Surrogate)	mg/kg	-	10.3	15.6	50	41
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	9.0	50	1
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213894.041	LB214046.015	Monocyclic	Benzene	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.

VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.041	LB214046.015	Monocyclic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatic	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200
		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	mg/kg	0.1	<0.1	<0.1	200
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	9.5	50	1
			d8-toluene (Surrogate)	mg/kg	-	10.4	10.3	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.2	7.1	50	1
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
			Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0
SE213894.052	LB214046.030	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	9.5	50	1
			d8-toluene (Surrogate)	mg/kg	-	10.6	10.3	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	6.7	50	3
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0			
SE213894.064	LB214047.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	9.7	50	0
			d8-toluene (Surrogate)	mg/kg	-	8.5	8.6	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	9.5	50	2
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0			
SE213894.073	LB214047.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	10.9	50	14
			d8-toluene (Surrogate)	mg/kg	-	8.8	9.5	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	10.4	50	6
		Totals	Total Xylenes	mg/kg	0.3	<0.3	<0.3	200	0
Total BTEX	mg/kg	0.6	<0.6	<0.6	200	0			

VOCs in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213875.001	LB214173.022	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200
		Ethylbenzene		µg/L	0.5	<0.5	<0.5	200	0
		m/p-xylene		µg/L	1	<1	<1	200	0
		o-xylene		µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	9.5	30	1
			d8-toluene (Surrogate)	µg/L	-	9.6	9.3	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10.2	30	4
		SE213894.082	LB214173.023	Monocyclic	Benzene	µg/L	0.5	<0.5	0.0364190092
Aromatic	Toluene			µg/L	0.5	<0.5	0.1212955542	200	0
	Ethylbenzene			µg/L	0.5	<0.5	0.0253440279	200	0
	m/p-xylene			µg/L	1	<1	0.0625842957	200	0
	o-xylene			µg/L	0.5	<0.5	0.0267233681	200	0
Polycyclic	Naphthalene			µg/L	0.5	<0.5	0.1496094961	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.

VOCs in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.082	LB214173.023	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	9.8828090636	30	5
			d8-toluene (Surrogate)	µg/L	-	9.6	9.7159933779	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.1188590532	30	0

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE213856.010	LB214044.014	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.2	11.7	30	5
			d8-toluene (Surrogate)	mg/kg	-	11.0	11.2	30	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.3	10.0	30	3
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213881.001	LB214048.014	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	10.3	30	16
			d8-toluene (Surrogate)	mg/kg	-	10.9	9.4	30	15
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10.9	30	8
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213881.010	LB214048.024	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	9.9	30	7
			d8-toluene (Surrogate)	mg/kg	-	8.8	12.0	30	30 ②
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	9.1	30	12
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.010	LB214044.025	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	10.8	30	7
			d8-toluene (Surrogate)	mg/kg	-	10.1	11.3	30	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10.0	30	0
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.020	LB214045.015	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	11.0	30	4
			d8-toluene (Surrogate)	mg/kg	-	10.2	10.2	30	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.7	30	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.031	LB214045.030	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	12.0	30	21
			d8-toluene (Surrogate)	mg/kg	-	10.3	15.6	30	41 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	9.0	30	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.041	LB214046.015	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	9.5	30	1
			d8-toluene (Surrogate)	mg/kg	-	10.4	10.3	30	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.2	7.1	30	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.052	LB214046.030	TRH C6-C10	mg/kg	25	<25	<25	200	0	
		TRH C6-C9	mg/kg	20	<20	<20	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	9.5	30	1
			d8-toluene (Surrogate)	mg/kg	-	10.6	10.3	30	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	6.7	30	3
		VPH F Bands	Benzene (F0)	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.

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE213894.052	LB214046.030	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.064	LB214047.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	9.7	30	0
			d8-toluene (Surrogate)	mg/kg	-	8.5	8.6	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	9.5	30	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE213894.073	LB214047.024		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	10.9	30	14
			d8-toluene (Surrogate)	mg/kg	-	8.8	9.5	30	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	10.4	30	6
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE213875.001	LB214173.022	TRH C6-C10	µg/L	50	<50	<50	169	0	
		TRH C6-C9	µg/L	40	<40	<40	159	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	9.5	30	1
		d8-toluene (Surrogate)	µg/L	-	9.6	9.3	30	3	
		Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10.2	30	4	
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0.0436598976	200	0
		TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	169	0	
SE213894.082	LB214173.023	TRH C6-C10	µg/L	50	<50	8.4376260330	200	0	
		TRH C6-C9	µg/L	40	<40	0.7757515012	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	9.8828090636	30	5
		d8-toluene (Surrogate)	µg/L	-	9.6	9.7159933779	30	1	
		Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.1188590532	30	0	
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0.0364190092	200	0
		TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	8.4376260330	200	0	

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

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

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214138.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	102
LB214139.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	106
LB214140.002	Mercury	mg/kg	0.05	0.24	0.2	70 - 130	122
LB214141.002	Mercury	mg/kg	0.05	0.21	0.2	70 - 130	106
LB214144.002	Mercury	mg/kg	0.05	0.20	0.2	70 - 130	99

OC Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214050.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	114
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	110
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	103
	Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	111
	Endrin	mg/kg	0.2	0.2	0.2	60 - 140	113
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	103
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130
LB214051.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	83
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	102
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	102
	Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	102
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	97
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	76
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	40 - 130
LB214052.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	105
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	105
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	102
	Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	107
	Endrin	mg/kg	0.2	0.2	0.2	60 - 140	108
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	96
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	40 - 130
LB214053.002	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	85
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	87
	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	84
	Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	87
	Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	86
	p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	70
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB214050.002	Dichlorvos	mg/kg	0.5	1.7	2	60 - 140	84	
	Diazinon (Dimpylate)	mg/kg	0.5	1.9	2	60 - 140	94	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	2	60 - 140	92	
	Ethion	mg/kg	0.2	1.5	2	60 - 140	77	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	91	
LB214051.002	Dichlorvos	mg/kg	0.5	2.3	2	60 - 140	115	
	Diazinon (Dimpylate)	mg/kg	0.5	2.3	2	60 - 140	116	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.3	2	60 - 140	116	
	Ethion	mg/kg	0.2	1.9	2	60 - 140	93	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92	
LB214052.002	Dichlorvos	mg/kg	0.5	2.1	2	60 - 140	107	
	Diazinon (Dimpylate)	mg/kg	0.5	2.4	2	60 - 140	119	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.1	2	60 - 140	107	
	Ethion	mg/kg	0.2	1.7	2	60 - 140	86	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93	
LB214053.002	Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	77	
	Diazinon (Dimpylate)	mg/kg	0.5	1.8	2	60 - 140	88	
	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	2	60 - 140	92	
	Ethion	mg/kg	0.2	1.5	2	60 - 140	74	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	91

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

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

OP Pesticides in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214053.002	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130
							86

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214050.002	Naphthalene	mg/kg	0.1	4.7	4	60 - 140	118
	Acenaphthylene	mg/kg	0.1	4.7	4	60 - 140	117
	Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	106
	Phenanthrene	mg/kg	0.1	4.6	4	60 - 140	114
	Anthracene	mg/kg	0.1	4.7	4	60 - 140	118
	Fluoranthene	mg/kg	0.1	4.7	4	60 - 140	119
	Pyrene	mg/kg	0.1	5.0	4	60 - 140	125
	Benzo(a)pyrene	mg/kg	0.1	4.8	4	60 - 140	121
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
							91
LB214051.002	Naphthalene	mg/kg	0.1	4.8	4	60 - 140	120
	Acenaphthylene	mg/kg	0.1	4.9	4	60 - 140	123
	Acenaphthene	mg/kg	0.1	5.0	4	60 - 140	126
	Phenanthrene	mg/kg	0.1	5.0	4	60 - 140	124
	Anthracene	mg/kg	0.1	4.9	4	60 - 140	123
	Fluoranthene	mg/kg	0.1	5.3	4	60 - 140	132
	Pyrene	mg/kg	0.1	5.0	4	60 - 140	125
	Benzo(a)pyrene	mg/kg	0.1	4.7	4	60 - 140	117
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
							92
LB214052.002	Naphthalene	mg/kg	0.1	4.9	4	60 - 140	123
	Acenaphthylene	mg/kg	0.1	5.3	4	60 - 140	133
	Acenaphthene	mg/kg	0.1	5.0	4	60 - 140	124
	Phenanthrene	mg/kg	0.1	4.9	4	60 - 140	122
	Anthracene	mg/kg	0.1	4.8	4	60 - 140	121
	Fluoranthene	mg/kg	0.1	5.0	4	60 - 140	126
	Pyrene	mg/kg	0.1	4.9	4	60 - 140	122
	Benzo(a)pyrene	mg/kg	0.1	4.9	4	60 - 140	121
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
							93
LB214053.002	Naphthalene	mg/kg	0.1	4.7	4	60 - 140	117
	Acenaphthylene	mg/kg	0.1	4.6	4	60 - 140	114
	Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	106
	Phenanthrene	mg/kg	0.1	4.6	4	60 - 140	114
	Anthracene	mg/kg	0.1	4.7	4	60 - 140	118
	Fluoranthene	mg/kg	0.1	4.7	4	60 - 140	118
	Pyrene	mg/kg	0.1	5.1	4	60 - 140	128
	Benzo(a)pyrene	mg/kg	0.1	4.9	4	60 - 140	122
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130
							86
LB214054.002	Naphthalene	mg/kg	0.1	4.5	4	60 - 140	113
	Acenaphthylene	mg/kg	0.1	4.9	4	60 - 140	123
	Acenaphthene	mg/kg	0.1	4.5	4	60 - 140	111
	Phenanthrene	mg/kg	0.1	4.4	4	60 - 140	110
	Anthracene	mg/kg	0.1	5.2	4	60 - 140	129
	Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	108
	Pyrene	mg/kg	0.1	4.5	4	60 - 140	113
	Benzo(a)pyrene	mg/kg	0.1	3.5	4	60 - 140	88
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130
							76

PCBs in Soil

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

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.

PCBs in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214050.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	112
LB214051.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	81
LB214052.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	132
LB214053.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	102

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 %
LB214125.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	110
	Cadmium, Cd	mg/kg	0.3	4.4	5.41	80 - 120	82
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	105
	Lead, Pb	mg/kg	1	96	89.9	80 - 120	107
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
LB214130.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	112
	Cadmium, Cd	mg/kg	0.3	4.4	5.41	80 - 120	81
	Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	110
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	112
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	96	89.9	80 - 120	107
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106
LB214131.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	4.4	5.41	80 - 120	82
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	108
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	102
	Lead, Pb	mg/kg	1	93	89.9	80 - 120	104
	Zinc, Zn	mg/kg	2	280	273	80 - 120	101
LB214132.002	Arsenic, As	mg/kg	1	370	318.22	80 - 120	117
	Cadmium, Cd	mg/kg	0.3	4.7	5.41	80 - 120	87
	Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	109
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	114
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	109
	Lead, Pb	mg/kg	1	99	89.9	80 - 120	110
	Zinc, Zn	mg/kg	2	290	273	80 - 120	107
LB214134.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	111
	Cadmium, Cd	mg/kg	0.3	4.5	5.41	80 - 120	83
	Chromium, Cr	mg/kg	0.5	40	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	108
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	104
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214088.002	Arsenic, As	µg/L	1	21	20	80 - 120	104
	Cadmium, Cd	µg/L	0.1	20	20	80 - 120	102
	Chromium, Cr	µg/L	1	20	20	80 - 120	102
	Copper, Cu	µg/L	1	19	20	80 - 120	97
	Lead, Pb	µg/L	1	19	20	80 - 120	95
	Nickel, Ni	µg/L	1	19	20	80 - 120	95
	Zinc, Zn	µg/L	5	19	20	80 - 120	95

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214050.002	TRH C10-C14	mg/kg	20	34	40	60 - 140	85
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	75
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	68
	TRH >C10-C16	mg/kg	25	34	40	60 - 140	85
	TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	70
	TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	65
	TRH C10-C14	mg/kg	20	40	40	60 - 140	100

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

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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB214051.002	TRH C15-C28	mg/kg	45	<45	40	60 - 140	83	
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	75	
	TRH F Bands	TRH >C10-C16	mg/kg	25	39	40	60 - 140	98
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	78
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	70
LB214052.002	TRH C10-C14	mg/kg	20	37	40	60 - 140	93	
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	83	
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	78	
	TRH F Bands	TRH >C10-C16	mg/kg	25	37	40	60 - 140	93
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	78
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	75
	LB214053.002	TRH C10-C14	mg/kg	20	40	40	60 - 140	100
TRH C15-C28		mg/kg	45	<45	40	60 - 140	95	
TRH C29-C36		mg/kg	45	<45	40	60 - 140	78	
TRH F Bands		TRH >C10-C16	mg/kg	25	41	40	60 - 140	103
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	85
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	75
LB214054.002		TRH C10-C14	mg/kg	20	39	40	60 - 140	98
	TRH C15-C28	mg/kg	45	<45	40	60 - 140	88	
	TRH C29-C36	mg/kg	45	<45	40	60 - 140	85	
	TRH F Bands	TRH >C10-C16	mg/kg	25	40	40	60 - 140	100
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	83
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	80

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB214074.002	TRH C10-C14	µg/L	50	770	1200	60 - 140	64	
	TRH C15-C28	µg/L	200	1100	1200	60 - 140	91	
	TRH C29-C36	µg/L	200	1200	1200	60 - 140	100	
	TRH F Bands	TRH >C10-C16	µg/L	60	910	1200	60 - 140	76
	TRH >C16-C34 (F3)	µg/L	500	1400	1200	60 - 140	114	
	TRH >C34-C40 (F4)	µg/L	500	560	600	60 - 140	94	

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214044.002	Monocyclic	Benzene	mg/kg	0.1	5.5	5	60 - 140	111
	Aromatic	Toluene	mg/kg	0.1	5.0	5	60 - 140	100
		Ethylbenzene	mg/kg	0.1	5.6	5	60 - 140	112
		m/p-xylene	mg/kg	0.2	12	10	60 - 140	121
		o-xylene	mg/kg	0.1	5.6	5	60 - 140	111
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.8	10	70 - 130	128
		d8-toluene (Surrogate)	mg/kg	-	11.8	10	70 - 130	118
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.2	10	70 - 130	112
LB214045.002	Monocyclic	Benzene	mg/kg	0.1	5.2	5	60 - 140	105
	Aromatic	Toluene	mg/kg	0.1	5.2	5	60 - 140	104
		Ethylbenzene	mg/kg	0.1	5.7	5	60 - 140	114
		m/p-xylene	mg/kg	0.2	12	10	60 - 140	125
		o-xylene	mg/kg	0.1	5.7	5	60 - 140	115
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.7	10	70 - 130	127
		d8-toluene (Surrogate)	mg/kg	-	11.4	10	70 - 130	114
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.2	10	70 - 130	112
LB214046.002	Monocyclic	Benzene	mg/kg	0.1	5.2	5	60 - 140	104
	Aromatic	Toluene	mg/kg	0.1	5.1	5	60 - 140	103
		Ethylbenzene	mg/kg	0.1	5.1	5	60 - 140	102
		m/p-xylene	mg/kg	0.2	11	10	60 - 140	111
		o-xylene	mg/kg	0.1	5.1	5	60 - 140	102
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.5	10	70 - 130	115
		d8-toluene (Surrogate)	mg/kg	-	12.0	10	70 - 130	120
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10	70 - 130	83
LB214047.002	Monocyclic	Benzene	mg/kg	0.1	5.9	5	60 - 140	118
	Aromatic	Toluene	mg/kg	0.1	5.3	5	60 - 140	106
		Ethylbenzene	mg/kg	0.1	5.5	5	60 - 140	110

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

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

VOC's in Soil (continued)

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214047.002	Monocyclic	m/p-xylene	mg/kg	0.2	12	10	60 - 140
	Aromatic	o-xylene	mg/kg	0.1	5.6	5	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.5	10	70 - 130
		d8-toluene (Surrogate)	mg/kg	-	9.5	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	10	70 - 130
LB214048.002	Monocyclic	Benzene	mg/kg	0.1	4.0	5	60 - 140
	Aromatic	Toluene	mg/kg	0.1	4.0	5	60 - 140
		Ethylbenzene	mg/kg	0.1	5.2	5	60 - 140
		m/p-xylene	mg/kg	0.2	11	10	60 - 140
		o-xylene	mg/kg	0.1	5.3	5	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130
		d8-toluene (Surrogate)	mg/kg	-	9.3	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130

VOCs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214173.002	Monocyclic	Benzene	µg/L	0.5	55	45.45	60 - 140
	Aromatic	Toluene	µg/L	0.5	51	45.45	60 - 140
		Ethylbenzene	µg/L	0.5	50	45.45	60 - 140
		m/p-xylene	µg/L	1	99	90.9	60 - 140
		o-xylene	µg/L	0.5	49	45.45	60 - 140
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140
		d8-toluene (Surrogate)	µg/L	-	10.4	10	70 - 130
		Bromofluorobenzene (Surrogate)	µg/L	-	9.5	10	70 - 130

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214044.002	TRH C6-C10	mg/kg	25	77	92.5	60 - 140	83
		mg/kg	20	69	80	60 - 140	87
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.8	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.2	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	43	62.5	60 - 140
LB214045.002	TRH C6-C10	mg/kg	25	79	92.5	60 - 140	85
		mg/kg	20	71	80	60 - 140	89
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.7	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.2	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	44	62.5	60 - 140
LB214046.002	TRH C6-C10	mg/kg	25	79	92.5	60 - 140	86
		mg/kg	20	73	80	60 - 140	92
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.5	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	48	62.5	60 - 140
LB214047.002	TRH C6-C10	mg/kg	25	72	92.5	60 - 140	78
		mg/kg	20	66	80	60 - 140	82
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.5	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	38	62.5	60 - 140
LB214048.002	TRH C6-C10	mg/kg	25	67	92.5	60 - 140	73
		mg/kg	20	58	80	60 - 140	73
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	38	62.5	60 - 140

Volatile Petroleum Hydrocarbons in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB214173.002	TRH C6-C10	µg/L	50	1100	946.63	60 - 140	115
		µg/L	40	960	818.71	60 - 140	117
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140
		d8-toluene (Surrogate)	µg/L	-	10.4	10	70 - 130
		Bromofluorobenzene (Surrogate)	µg/L	-	9.5	10	70 - 130
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	780	639.67	60 - 140
		µg/L	50	780	639.67	60 - 140	122

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

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

Mercury (dissolved) in Water

Method: ME-(AU)-(ENV)AN311(Porth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213866.001	LB214230.004	Mercury	mg/L	0.0001	0.0018	<0.0001	0.008	92

Mercury in Soil

Method: ME-(AU)-(ENV)AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214138.004	Mercury	mg/kg	0.05	0.34	0.16	0.2	87
SE213894.020	LB214139.004	Mercury	mg/kg	0.05	0.23	<0.05	0.2	97
SE213894.039	LB214140.004	Mercury	mg/kg	0.05	0.23	<0.05	0.2	93
SE213904.001	LB214144.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	94

OC Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.002	LB214050.028	Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	-	-
		Alpha BHC	mg/kg	0.1	<0.1	-	-	-
		Lindane	mg/kg	0.1	<0.1	-	-	-
		Heptachlor	mg/kg	0.1	<0.1	0.2	118	
		Aldrin	mg/kg	0.1	<0.1	0.2	113	
		Beta BHC	mg/kg	0.1	<0.1	-	-	-
		Delta BHC	mg/kg	0.1	<0.1	0.2	110	
		Heptachlor epoxide	mg/kg	0.1	<0.1	-	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	-	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	-	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	-	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	-	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	-	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	-	-	-
		Dieldrin	mg/kg	0.2	<0.2	0.2	113	
		Endrin	mg/kg	0.2	<0.2	0.2	113	
		o,p'-DDD	mg/kg	0.1	<0.1	-	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	-	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	-	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	-	-	-
		p,p'-DDT	mg/kg	0.1	<0.1	0.2	101	
		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	-	-	-
SE213894.011	LB214051.004	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	-	96
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Lindane	mg/kg	0.1	<0.1	<0.1	-	-
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	98
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	108
		Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
		Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	110
		Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
		Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	108
		Endrin	mg/kg	0.2	0.2	<0.2	0.2	108
		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	-	-

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.

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OC Pesticides in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.011	LB214051.004	p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
		p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	88
		Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	<0.1	-	-
		Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
		Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
SE213894.033	LB214052.030	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	101
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	-	-	-
SE213894.033	LB214052.030	Alpha BHC	mg/kg	0.1	<0.1	-	-	-
		Lindane	mg/kg	0.1	<0.1	-	-	-
		Heptachlor	mg/kg	0.1	<0.1	0.2	110	
		Aldrin	mg/kg	0.1	<0.1	0.2	104	
		Beta BHC	mg/kg	0.1	<0.1	-	-	-
		Delta BHC	mg/kg	0.1	<0.1	0.2	105	
		Heptachlor epoxide	mg/kg	0.1	<0.1	-	-	-
		o,p'-DDE	mg/kg	0.1	<0.1	-	-	-
		Alpha Endosulfan	mg/kg	0.2	<0.2	-	-	-
		Gamma Chlordane	mg/kg	0.1	<0.1	-	-	-
		Alpha Chlordane	mg/kg	0.1	<0.1	-	-	-
		trans-Nonachlor	mg/kg	0.1	<0.1	-	-	-
		p,p'-DDE	mg/kg	0.1	<0.1	-	-	-
		Dieldrin	mg/kg	0.2	<0.2	0.2	100	
		Endrin	mg/kg	0.2	<0.2	0.2	106	
		o,p'-DDD	mg/kg	0.1	<0.1	-	-	-
		o,p'-DDT	mg/kg	0.1	<0.1	-	-	-
		Beta Endosulfan	mg/kg	0.2	<0.2	-	-	-
		p,p'-DDD	mg/kg	0.1	<0.1	-	-	-
		p,p'-DDT	mg/kg	0.1	<0.1	0.2	92	
		Endosulfan sulphate	mg/kg	0.1	<0.1	-	-	-
		Endrin Aldehyde	mg/kg	0.1	<0.1	-	-	-
		Methoxychlor	mg/kg	0.1	<0.1	-	-	-
		Endrin Ketone	mg/kg	0.1	<0.1	-	-	-
		Isodrin	mg/kg	0.1	<0.1	-	-	-
		Mirex	mg/kg	0.1	<0.1	-	-	-
		Total CLP OC Pesticides	mg/kg	1	<1	-	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	-	101

OP Pesticides in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214050.030	Dichlorvos	mg/kg	0.5	<0.5	2	79	
		Dimethoate	mg/kg	0.5	<0.5	-	-	-
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	2	90	
		Fenitrothion	mg/kg	0.2	<0.2	-	-	-
		Malathion	mg/kg	0.2	<0.2	-	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	2	95	
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	-	-
		Bromophos Ethyl	mg/kg	0.2	<0.2	-	-	-
		Metidathion	mg/kg	0.5	<0.5	-	-	-
		Ethion	mg/kg	0.2	<0.2	2	79	
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	-	-	-
		Total OP Pesticides*	mg/kg	1.7	<1.7	-	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	-	92
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	-	90
SE213894.011	LB214051.004	Dichlorvos	mg/kg	0.5	2.2	<0.5	2	109
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Diazinon (Dimpylate)	mg/kg	0.5	2.3	<0.5	2	112
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-

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.

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OP Pesticides in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.011	LB214051.004	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.4	<0.2	2	118
		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	1.9	<0.2	2	96
		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	8.7	<1.7	-	-
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92
SE213894.033	LB214052.030	Dichlorvos	mg/kg	0.5		<0.5	2	108
		Dimethoate	mg/kg	0.5		<0.5	-	-
		Diazinon (Dimpylate)	mg/kg	0.5		<0.5	2	111
		Fenitrothion	mg/kg	0.2		<0.2	-	-
		Malathion	mg/kg	0.2		<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2		<0.2	2	114
		Parathion-ethyl (Parathion)	mg/kg	0.2		<0.2	-	-
		Bromophos Ethyl	mg/kg	0.2		<0.2	-	-
		Methidathion	mg/kg	0.5		<0.5	-	-
		Ethion	mg/kg	0.2		<0.2	2	95
		Azinphos-methyl (Guthion)	mg/kg	0.2		<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7		<1.7	-	-
		2-fluorobiphenyl (Surrogate)	mg/kg	-		0.5	-	93
		d14-p-terphenyl (Surrogate)	mg/kg	-		0.5	-	93

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214050.030	Naphthalene	mg/kg	0.1		<0.1	4	117
		2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
		Acenaphthylene	mg/kg	0.1		<0.1	4	113
		Acenaphthene	mg/kg	0.1		<0.1	4	106
		Fluorene	mg/kg	0.1		<0.1	-	-
		Phenanthrene	mg/kg	0.1		<0.1	4	115
		Anthracene	mg/kg	0.1		<0.1	4	118
		Fluoranthene	mg/kg	0.1		<0.1	4	123
		Pyrene	mg/kg	0.1		<0.1	4	128
		Benzo(a)anthracene	mg/kg	0.1		<0.1	-	-
		Chrysene	mg/kg	0.1		<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1		<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1		<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1		<0.1	4	114
		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	-	-
		d5-nitrobenzene (Surrogate)	mg/kg	-		0.5	-	88
		2-fluorobiphenyl (Surrogate)	mg/kg	-		0.5	-	92
		d14-p-terphenyl (Surrogate)	mg/kg	-		0.5	-	90
SE213894.011	LB214051.004	Naphthalene	mg/kg	0.1	4.6	<0.1	4	115
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	4.7	<0.1	4	117
		Acenaphthene	mg/kg	0.1	4.9	<0.1	4	123
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.7	<0.1	4	117
		Anthracene	mg/kg	0.1	4.7	<0.1	4	118
		Fluoranthene	mg/kg	0.1	5.0	<0.1	4	125
		Pyrene	mg/kg	0.1	4.9	<0.1	4	122

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.011	LB214051.004	Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	4.3	<0.1	4	107
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	4.3	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.4	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.3	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	38	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.4	-	90
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92
SE213894.033	LB214052.030	Naphthalene	mg/kg	0.1	<0.1	<0.1	4	112
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	4	135
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	4	117
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	4	126
		Anthracene	mg/kg	0.1	<0.1	<0.1	4	118
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	4	129
		Pyrene	mg/kg	0.1	<0.1	<0.1	4	122
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	4	121
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	<0.8	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	95
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	93
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	93
SE213894.054	LB214053.025	Naphthalene	mg/kg	0.1	<0.1	<0.1	4	113
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	4	108
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	4	107
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	4	113
		Anthracene	mg/kg	0.1	<0.1	<0.1	4	115
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	4	120
		Pyrene	mg/kg	0.1	<0.1	<0.1	4	107
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	4	115
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.054	LB214053.025	Total PAH (18)	mg/kg	0.8		<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-		0.4	-	95
		2-fluorobiphenyl (Surrogate)	mg/kg	-		0.4	-	92
SE213894.074	LB214054.024	d14-p-terphenyl (Surrogate)	mg/kg	-		0.4	-	95
		Naphthalene	mg/kg	0.1	5.1	<0.1	4	126
		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	5.0	<0.1	4	126
		Acenaphthene	mg/kg	0.1	5.1	<0.1	4	128
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	5.1	<0.1	4	128
		Anthracene	mg/kg	0.1	4.9	<0.1	4	122
		Fluoranthene	mg/kg	0.1	5.2	<0.1	4	130
		Pyrene	mg/kg	0.1	5.2	<0.1	4	129
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
		Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	mg/kg	0.1	4.7	<0.1	4	116
		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	4.7	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	4.8	<0.3	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	4.7	<0.2	-	-
		Total PAH (18)	mg/kg	0.8	40	<0.8	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	93
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	101
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95

PCBs in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.002	LB214050.028	Arochlor 1016	mg/kg	0.2		<0.2	-	-
		Arochlor 1221	mg/kg	0.2		<0.2	-	-
		Arochlor 1232	mg/kg	0.2		<0.2	-	-
		Arochlor 1242	mg/kg	0.2		<0.2	-	-
		Arochlor 1248	mg/kg	0.2		<0.2	-	-
		Arochlor 1254	mg/kg	0.2		<0.2	-	-
		Arochlor 1260	mg/kg	0.2		<0.2	0.4	117
		Arochlor 1262	mg/kg	0.2		<0.2	-	-
		Arochlor 1268	mg/kg	0.2		<0.2	-	-
		Total PCBs (Arochlors)	mg/kg	1		<1	-	-
SE213894.011	LB214051.004	Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-		0	-	96
		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	0.4	<0.2	0.4	104
		Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
SE213894.033	LB214052.030	Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
		Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates						
		Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	0	-	101
		Arochlor 1016	mg/kg	0.2		<0.2	-	-
		Arochlor 1221	mg/kg	0.2		<0.2	-	-
		Arochlor 1232	mg/kg	0.2		<0.2	-	-
		Arochlor 1242	mg/kg	0.2		<0.2	-	-
		Arochlor 1248	mg/kg	0.2		<0.2	-	-
		Arochlor 1254	mg/kg	0.2		<0.2	-	-
		Arochlor 1260	mg/kg	0.2		<0.2	0.4	94

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.

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PCBs in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.033	LB214052.030	Arochlor 1262	mg/kg	0.2		<0.2	-	-
		Arochlor 1268	mg/kg	0.2		<0.2	-	-
		Total PCBs (Arochlors)	mg/kg	1		<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0	-	100

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

Method: ME-(AU)-(ENV)AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214125.004	Arsenic, As	mg/kg	1	54	13	50	83
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	85
		Chromium, Cr	mg/kg	0.5	56	13	50	85
		Copper, Cu	mg/kg	0.5	59	17	50	83
		Nickel, Ni	mg/kg	0.5	52	9.5	50	86
		Lead, Pb	mg/kg	1	55	15	50	81
		Zinc, Zn	mg/kg	2	76	43	50	65 @
SE213894.020	LB214130.004	Arsenic, As	mg/kg	1	61	10	50	103
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	93
		Chromium, Cr	mg/kg	0.5	58	8.1	50	99
		Copper, Cu	mg/kg	0.5	57	7.3	50	99
		Nickel, Ni	mg/kg	0.5	53	3.5	50	100
		Lead, Pb	mg/kg	1	56	9	50	93
		Zinc, Zn	mg/kg	2	63	12	50	102
SE213894.039	LB214131.004	Arsenic, As	mg/kg	1	53	4	50	98
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	55	8.1	50	95
		Copper, Cu	mg/kg	0.5	53	3.6	50	100
		Nickel, Ni	mg/kg	0.5	51	2.2	50	98
		Lead, Pb	mg/kg	1	54	8	50	93
		Zinc, Zn	mg/kg	2	54	5.0	50	98
SE213894.060	LB214132.004	Arsenic, As	mg/kg	1	52	16	50	73
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	83
		Chromium, Cr	mg/kg	0.5	55	14	50	84
		Copper, Cu	mg/kg	0.5	60	19	50	81
		Nickel, Ni	mg/kg	0.5	52	8.7	50	87
		Lead, Pb	mg/kg	1	56	15	50	82
		Zinc, Zn	mg/kg	2	79	45	50	69 @
SE213904.001	LB214134.004	Arsenic, As	mg/kg	1	47	2	50	90
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	57	14	50	86
		Copper, Cu	mg/kg	0.5	63	42	50	41 @
		Nickel, Ni	mg/kg	0.5	48	2.4	50	90
		Lead, Pb	mg/kg	1	51	7	50	89
		Zinc, Zn	mg/kg	2	53	12	50	82

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-(ENV)AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.082	LB214088.004	Arsenic, As	µg/L	1	22	<1	20	109
		Cadmium, Cd	µg/L	0.1	22	<0.1	20	109
		Chromium, Cr	µg/L	1	22	<1	20	110
		Copper, Cu	µg/L	1	21	<1	20	107
		Lead, Pb	µg/L	1	20	<1	20	100
		Nickel, Ni	µg/L	1	21	<1	20	103
		Zinc, Zn	µg/L	5	23	<5	20	105

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214050.028	TRH C10-C14	mg/kg	20		<20	40	93
		TRH C15-C28	mg/kg	45		<45	40	98
		TRH C29-C36	mg/kg	45		<45	40	75
		TRH C37-C40	mg/kg	100		<100	-	-
		TRH C10-C36 Total	mg/kg	110		<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210		<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25		<25	40

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.

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TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214050.028	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	40	93
			TRH >C34-C40 (F4)	mg/kg	120	<120	-	-
SE213894.011	LB214051.004		TRH C10-C14	mg/kg	20	<20	40	63
			TRH C15-C28	mg/kg	45	<45	40	80
			TRH C29-C36	mg/kg	45	<45	40	80
			TRH C37-C40	mg/kg	100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	40	65
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	40	88
			TRH >C34-C40 (F4)	mg/kg	120	<120	-	-
SE213894.033	LB214052.030		TRH C10-C14	mg/kg	20	<20	40	90
			TRH C15-C28	mg/kg	45	<45	40	90
			TRH C29-C36	mg/kg	45	<45	40	90
			TRH C37-C40	mg/kg	100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	40	90
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	40	98
			TRH >C34-C40 (F4)	mg/kg	120	<120	-	-
SE213894.054	LB214053.025		TRH C10-C14	mg/kg	20	<20	40	83
			TRH C15-C28	mg/kg	45	<45	40	88
			TRH C29-C36	mg/kg	45	<45	40	78
			TRH C37-C40	mg/kg	100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	40	85
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	40	93
			TRH >C34-C40 (F4)	mg/kg	120	<120	-	-
SE213894.074	LB214054.004		TRH C10-C14	mg/kg	20	<20	40	93
			TRH C15-C28	mg/kg	45	<45	40	90
			TRH C29-C36	mg/kg	45	<45	40	90
			TRH C37-C40	mg/kg	100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	40	95
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	40	93
			TRH >C34-C40 (F4)	mg/kg	120	<120	-	-

VOC's in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.001	LB214044.026	Monocyclic	Benzene	mg/kg	0.1		<0.1	5	82
			Aromatic	Toluene	mg/kg	0.1		<0.1	5
		Ethylbenzene		mg/kg	0.1		<0.1	5	91
		m/p-xylene		mg/kg	0.2		<0.2	10	101
		o-xylene		mg/kg	0.1		<0.1	5	94
		Polycyclic		Naphthalene	mg/kg	0.1		<0.1	-
			Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-		10.1	10
		d8-toluene (Surrogate)		mg/kg	-		9.8	10	94
		Bromofluorobenzene (Surrogate)		mg/kg	-		9.7	10	98
		Totals	Total Xylenes	mg/kg	0.3		<0.3	-	-
			Total BTEX	mg/kg	0.6		<0.6	-	-
SE213894.011	LB214045.004	Monocyclic	Benzene	mg/kg	0.1	4.9	<0.1	5	97
		Aromatic	Toluene	mg/kg	0.1	4.8	<0.1	5	96
			Ethylbenzene	mg/kg	0.1	5.1	<0.1	5	102
			m/o-xylene	mg/kg	0.2	11	<0.2	10	112

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VOC's in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.011	LB214045.004	Monocyclic	o-xylene	mg/kg	0.1	5.1	<0.1	5	102
			Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.4	10.3	10	114
			d8-toluene (Surrogate)	mg/kg	-	10.7	10.1	10	107
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.8	10	101
		Totals	Total Xylenes	mg/kg	0.3	16	<0.3	-	-
			Total BTEX	mg/kg	0.6	31	<0.6	-	-
SE213894.032	LB214046.004	Monocyclic	Benzene	mg/kg	0.1	4.7	<0.1	5	93
			Aromatic	Toluene	mg/kg	0.1	4.6	<0.1	5
		Ethylbenzene		mg/kg	0.1	4.7	<0.1	5	94
		m/p-xylene		mg/kg	0.2	10	<0.2	10	102
		o-xylene		mg/kg	0.1	4.7	<0.1	5	94
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.1	9.8	10	111
			d8-toluene (Surrogate)	mg/kg	-	11.8	10.7	10	118
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	8.0	10	80
		Totals	Total Xylenes	mg/kg	0.3	15	<0.3	-	-
			Total BTEX	mg/kg	0.6	29	<0.6	-	-
		SE213894.053	LB214047.004	Monocyclic	Benzene	mg/kg	0.1	6.0	<0.1
Aromatic	Toluene				mg/kg	0.1	5.4	<0.1	5
	Ethylbenzene			mg/kg	0.1	5.5	<0.1	5	110
	m/p-xylene			mg/kg	0.2	13	<0.2	10	126
	o-xylene			mg/kg	0.1	5.8	<0.1	5	116
Polycyclic	Naphthalene			mg/kg	0.1	<0.1	<0.1	-	-
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	10.4	10.7	10	104
	d8-toluene (Surrogate)			mg/kg	-	9.5	9.4	10	95
	Bromofluorobenzene (Surrogate)			mg/kg	-	9.6	10.0	10	96
Totals	Total Xylenes			mg/kg	0.3	18	<0.3	-	-
	Total BTEX			mg/kg	0.6	35	<0.6	-	-
SE213894.074	LB214048.004			Monocyclic	Benzene	mg/kg	0.1	4.3	<0.1
		Aromatic	Toluene		mg/kg	0.1	3.9	<0.1	5
			Ethylbenzene	mg/kg	0.1	4.9	<0.1	5	98
			m/p-xylene	mg/kg	0.2	11	<0.2	10	110
			o-xylene	mg/kg	0.1	5.2	<0.1	5	104
		Polycyclic	Naphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	8.6	10	87
			d8-toluene (Surrogate)	mg/kg	-	8.0	8.1	10	80
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	9.8	10	88
		Totals	Total Xylenes	mg/kg	0.3	16	<0.3	-	-
Total BTEX	mg/kg		0.6	29	<0.6	-	-		

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213946.002	LB214173.021	Monocyclic	Benzene	µg/L	0.5	53	<0.5	45.45	116
		Aromatic	Toluene	µg/L	0.5	48	<0.5	45.45	106
			Ethylbenzene	µg/L	0.5	49	<0.5	45.45	107
			m/p-xylene	µg/L	1	96	<1	90.9	106
			o-xylene	µg/L	0.5	48	<0.5	45.45	105
		Polycyclic	Naphthalene	µg/L	0.5	47	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	9.8	-	103
			d8-toluene (Surrogate)	µg/L	-	10.1	9.8	-	101
			Bromofluorobenzene (Surrogate)	µg/L	-	9.8	10	-	98

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE213894.001	LB214044.026	TRH C6-C10	mg/kg	25		<25	92.5	89	
		TRH C6-C9	mg/kg	20		<20	80	94	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-		10.1	10	97
			d8-toluene (Surrogate)	mg/kg	-		9.8	10	94
			Bromofluorobenzene (Surrogate)	mg/kg	-		9.7	-	98
		VPH F	Benzene (F0)	mg/kg	0.1		<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25		<25	62.5	88

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

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

Volatile Petroleum Hydrocarbons in Soil (continued)

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213894.011	LB214045.004	TRH C6-C10	mg/kg	25	81	<25	92.5	88
		TRH C6-C9	mg/kg	20	74	<20	80	92
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.4	10.3	10	114
		d8-toluene (Surrogate)	mg/kg	-	10.7	10.1	10	107
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.8	-	101
		VPH F	mg/kg	0.1	4.9	<0.1	-	-
		Bands						
SE213894.032	LB214046.004	TRH C6-C10 minus BTEX (F1)	mg/kg	25	50	<25	62.5	80
		TRH C6-C10	mg/kg	25	72	<25	92.5	77
		TRH C6-C9	mg/kg	20	68	<20	80	85
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.1	9.8	10	111
		d8-toluene (Surrogate)	mg/kg	-	11.8	10.7	10	118
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	8.0	-	80
		VPH F	mg/kg	0.1	4.7	<0.1	-	-
SE213894.053	LB214047.004	TRH C6-C10 minus BTEX (F1)	mg/kg	25	43	<25	62.5	68
		TRH C6-C10	mg/kg	25	72	<25	92.5	78
		TRH C6-C9	mg/kg	20	66	<20	80	82
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10.7	10	104
		d8-toluene (Surrogate)	mg/kg	-	9.5	9.4	10	95
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	10.0	-	96
		VPH F	mg/kg	0.1	6.0	<0.1	-	-
SE213894.074	LB214048.004	TRH C6-C10 minus BTEX (F1)	mg/kg	25	37	<25	62.5	59 @
		TRH C6-C10	mg/kg	25	85	<25	92.5	92
		TRH C6-C9	mg/kg	20	74	<20	80	92
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	8.6	10	87
		d8-toluene (Surrogate)	mg/kg	-	8.0	8.1	10	80
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.8	9.8	-	88
		VPH F	mg/kg	0.1	4.3	<0.1	-	-
		Bands						
		TRH C6-C10 minus BTEX (F1)	mg/kg	25	56	<25	62.5	89

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE213946.002	LB214173.021	TRH C6-C10	µg/L	50	910	<50	946.63	96
		TRH C6-C9	µg/L	40	790	<40	818.71	97
		Surrogates						
		d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	9.8	-	103
		d8-toluene (Surrogate)	µg/L	-	10.1	9.8	-	101
		Bromofluorobenzene (Surrogate)	µg/L	-	9.8	10	-	98
		VPH F	µg/L	0.5		0	-	-
		Bands						
		TRH C6-C10 minus BTEX (F1)	µg/L	50	620	<50	639.67	97

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 end of this report for failure reasons.

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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Appendix H – QA/QC Assessment

H1 QUALITY CONTROL PROGRAM

H1.1 PROJECT QA/QC PROTOCOLS

The overall quality assurance comprises an assessment of the reliability of the field procedures and the laboratory results against standard industry practices, documented sampling and analysis plans or remediation action plans. A summary of the project QA/QC protocols to be followed during the investigation works is presented in **Table H-1**.

Table H-1 QA/QC Protocols

Task	Description	Project
Field QA/QC		
General	Work was undertaken following standard field procedures which are based on industry accepted standard practice.	Soil samples were generally collected directly off the drilling rods or hand auger. Soil samples were placed in 250 gram glass jars, which were filled to minimise headspace, and sealed using Teflon-coated lids.
	All fieldwork was supervised by a suitably qualified and experienced scientist or engineer.	Yes
Soil screening with PID	The PID was serviced and calibrated as per the manufacturer requirements. PID calibrated at the beginning and end of each day of fieldwork.	Yes
Rinsate Samples	One rinsate blank would be collected per sampling event and analysed for the primary contaminants. All results should be non-detect.	The results for rinsate samples were reported below laboratory LOR.
Transport	Samples were stored in ice-brick cooled cooler box and transported to the primary and secondary laboratories. To ensure the integrity of the samples from collection to receipt by the analytical laboratory, samples were sent by courier to the laboratories under 'chain of custody' describing sample preservation, and transport duration.	Yes
Trip Blanks	Trip blank samples were prepared and analysed by the primary laboratory for BTEX and naphthalene. Analytical results for trip blank samples below the laboratory PQLs, indicate that ideal sample transport and handling conditions are achieved.	Yes

Task	Description	Project
Trip Spikes	Trip spike samples were prepared and analysed by the primary laboratory for BTEX. Acceptance criteria of BTEX spike recoveries are between 70% - 130%.	Yes
QA samples	Field and laboratory QA samples will be analysed as follows: Intra-laboratory and inter-laboratory duplicate samples will be collected at a rate of 1 pair per 20 primary samples	Yes See Table H-2 Calculated RPD (Table B.3) values between most primary and field duplicate samples are within the acceptance criteria (Section H1.2) with the exception of the following: <u>Soil - Blind Field Duplicate-1(BFD):</u> - Cadmium: 129.41% - Copper: 75.86 % - Lead: 150.88 % - Zinc: 115.79 % For the Cadmium values analytical results for both the Primary and BFD were less than ten times the laboratory PQL, therefore the RPD exceedances are deemed acceptable. For the concentrations of copper, lead and zinc, the BFD values were significantly lower than the primary sample values and were considered not to change the outcome of this report. <u>Soil - Blind Field Triplicate (BFT):</u> - Cadmium: 111.11% - Copper: 85.71 % - Lead: 144.83 % - Zinc: 114.14 % For the Cadmium values analytical results for both the Primary and BFD were less than ten times the laboratory PQL, therefore the RPD exceedances are deemed acceptable. For the concentrations of copper, lead and zinc, the BFD values were significantly lower than the primary sample values and were considered not to change the outcome of this report.
Laboratory QA/QC		
Laboratory analysis	The laboratories selected are NATA accredited for the analytes selected and perform their own internal QA/QC programs	Yes SGS - primary laboratory EnviroLab - secondary laboratory The laboratory QA/QC reports are included in Appendix G.

Task	Description	Project
	Appropriate detection limits were used for the analyses to be undertaken.	Practical Quantitation Limits for all tested parameters during the assessment of soils are presented in summary tables Table B.1
	Methods followed are generally in accordance with the requirements of NEPM (2013).	Yes
Holding Times	Holding times are the maximum permissible elapsed time in days from the collection of the sample to its extraction and/or analysis. All extraction and analyses should be completed within standard guidelines.	Yes
Laboratory Duplicates	Laboratory duplicates are field samples that are split in the laboratory and subsequently analysed a number of times in the same batch. These sub-samples are selected by the laboratory to assess the accuracy and precision of the analytical method. The selected laboratories should undertake QA/QC procedures such as calibration standards, laboratory control samples, surrogates, reference materials, sample duplicates and matrix spikes. Intra-laboratory duplicates should be performed at a frequency of 1 per 10 samples.	The Laboratory duplicate samples for the analysis batches showed calculated RPDs were within acceptable ranges
Laboratory Control Standard	A laboratory control standard is a standard reference material used in preparing primary standards. The concentration should be equivalent to a mid-range standard to confirm the primary calibration. Laboratory control samples should be performed on a frequency of 1 per 20 samples or at least one per analytical run.	The Laboratory Control Samples for the analysis batches were within acceptable ranges.
Matrix Spikes / Matrix Spike Duplicates (MS/MSD)	MS/MSDs are field samples to which a predetermined stock solution of known concentration has been added. The samples are then analysed for recovery of the known addition. Recoveries should be within the stated laboratory control limits of 70 to 130% and duplicates should have RPDs of less than 50%.	Most MS / MSD for the analysis batches were within acceptable ranges.

Task	Description	Project
Surrogate Spikes	Surrogate spikes provide a means of checking, for every analysis that no gross errors have occurred at any stage of the procedure leading to significant analyte loss. Recoveries should be within the stated laboratory control limits of 70 to 130%.	Surrogate spikes for the analysis batches were within acceptable ranges.
QA/QC Conclusion	The QA/QC indicators should either all comply with the required standards or showed no variations that would have no significant effect on the quality of the data.	EI considers that the data confirms that the analytical results for the various phases of laboratory testing were valid and useable for interpretation purposes.

H1.2 CALCULATION OF RELATIVE PERCENTAGE DIFFERENCE (RPD)

The RPD values were calculated using the following equation:

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

Where:

C_O = Concentration obtained for the primary sample; and

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

Data precision would be deemed acceptable if RPDs are found to be less than 30%. RPDs that exceed this range may be considered acceptable where:

- Results are less than 10 times the limits of reporting (LOR);
- Results are less than 20 times the LOR and the RPD is less than 50%; or
- Heterogeneous materials or volatile compounds are encountered.

In cases where RPD value was considered unacceptable, the analytical results of primary and duplicate samples were both reviewed against the adopted assessment criteria. If the review indicates the variations in data between the primary and duplicate samples would result in a different conclusion (e.g. the higher concentration is failing the assessment criteria), the need for re-sampling / validation would be considered.

H2 FIELD QA/QC DATA PROGRAM

H2.1 FIELD QA SAMPLING PROGRAM

The field quality assurance/quality control (QA/QC) samples collected during the investigation works are summarised on **Table H-2**. Inter-lab duplicates were analysed by the secondary laboratory, Eurofins. Analytical results of the Field QA samples are tabulated in **Table H-3**, alongside calculated RPDs between the primary and field duplicate samples.

Table H-2 Field QA Sampling Program

Activity	Matrix	No. Primary Samples	Primary Sample ID	Intra-Lab Duplicate ID	Inter-Lab Duplicate ID	No. of Duplicates	Duplicate Ratio
Field QA Samples - Duplicates							
Soil Investigation	Soil	74	BH103_0.7	QD-1	QT-1	8	1:9.25
			BH110_0.8	QD-2	QT-2		
			BH121_0.2	QD-3	QT-3		
			BH142_0.7	QD-4	QT-4		
Other Field QA Samples							
Soil Investigation	Soil	QTB1 – trip blank					
		QTS1 – trip spike					
	Water	QR1 – rinsate					

H2.2 FIELD DATA QUALITY INDICATORS

A discussion of the field data quality indicators is presented below.

Table H-4 Field Data Quality Indicators

QA/QC Measures	Field Data Quality Indicators	Conformance / Comments
Precision – A quantitative measure of the variability (or reproducibility) of data	Standard operation procedures appropriate and complied with	Yes
Completeness – A measure of the amount of useable data from a data collection activity	Each critical location sampled	Yes
	Samples collected at targeted locations and depth	Yes
	SAQP appropriate and complied with	Yes
	Experienced sampler	Yes
	Field documentation correct	Yes

QA/QC Measures	Field Data Quality Indicators	Conformance / Comments
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Same sampling method used on each occasion/location	Yes
	Experienced sampler	Yes
	Climatic conditions (temperature, rainfall, wind)	Climate conditions were recorded to be fine. These climatic conditions unlikely had significant influence on the results of the investigation.
	Same type of samples collected (filtered, size, fractions)	Yes
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	Appropriate media sampled according to SAQP	Yes
	Each media identified in SAQP sampled	Yes
	Appropriate sample collection methodologies, handling, storage and preservation techniques used	Yes
	Consistency between field observations and laboratory results.	Yes
Accuracy – A quantitative measure of the closeness of reported data to the “true” value	Standard operation procedures appropriate and complied with	Yes
	Calibration of instruments against known standards	Yes

H2.3 CONCLUSION FOR THE FIELD QA/QC

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

H3 LABORATORY QAI/QC

H3.1 LABORATORY ACCREDITATION

Primary and intra-laboratory duplicate samples were analysed by SGS Alexandria Environmental, NSW; inter-laboratory triplicate samples were analysed by Envirolab, Artarmon NSW; all laboratories are accredited by NATA for the analyses undertaken.

A discussion of the laboratory DQIs is presented below.

Table H-5 Lab Data Quality Indicators

QA/QC Measures	Laboratory Data Quality Indicators	Conformance/Comments
Completeness – A measure of the amount of useable data from a data collection activity	All critical samples analysed according to SAQP and proposal	Yes
	All analytes analysed according to SAQP in proposal	Yes
	Appropriate methods and PQLs	Yes
	Sample documentation complete	Yes
	Sample holding times complied with	Yes
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Same sample analytical methods used (including clean-up)	Yes
	Same Sample PQLs	Yes
	Same laboratories (NATA-accredited)	Yes
	Same units	Yes
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	All key samples analysed according to SAQP in the proposal.	Yes
	Analysis of laboratory-prepared volatile trip spikes and trip blanks	Yes
Precision – A quantitative measure of the variability (or reproducibility) of data	Analysis of laboratory and inter-laboratory duplicates	Yes
	Analysis of field duplicates	Yes
Accuracy – A quantitative measure of the closeness of reported data to the “true” value	Analysis of rinsate blanks	Yes
	Analysis of reagent blanks	Not applicable
	Analysis of method blanks	Yes
	Analysis of matrix spikes (MS)	Yes
	Analysis of matrix spike duplicates (MSD)	Yes

QA/QC Measures	Laboratory Data Quality Indicators	Conformance/Comments
	Analysis of surrogate spikes	Yes
	Analysis of reference materials	Not performed / applicable
	Analysis of laboratory control samples	Yes
	Analysis of laboratory-prepared spikes	Yes

Overall, it is considered that the laboratory data quality objectives for this project have been attained.

H3.2 CONCLUSIONS ON LAB QA/QC

Based on the laboratory QA/QC results EI considers that the data generally confirms that the analytical results for the various phases of laboratory testing were valid and useable for interpretation purposes.

H4 SUMMARY OF PROJECT QA/QC

The sampling methods (including sample preservation, transport and decontamination procedures) and laboratory methods followed during this investigation works were mostly consistent with EI protocols and meeting the DQOs for this project. Some discrepancies from the DQOs were reported however they were considered to not be detrimental to the validity of collected data. It is therefore considered that the data is sufficiently precise and accurate and that the results can be relied upon for interpretation.

Appendix I – Site Photographs



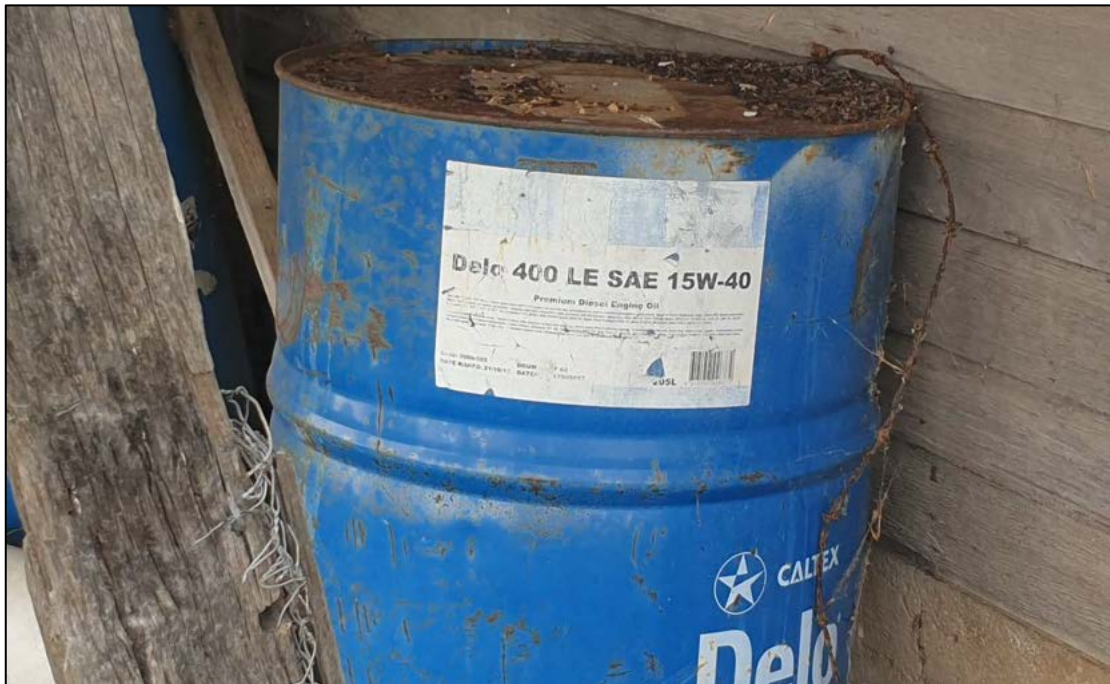
Photograph 1: View of site conditions facing west toward former dairy (17 November 2020).



Photograph 2: Image of general site conditions during intrusive investigations, facing south-west (17 November 2020).



Photograph 3: Old timber and corrugated iron shed (former dairy) with old oil drums, facing south (17 November 2020).



Photograph 4: 200L diesel engine oil drum stored in northern end of shed (17 November 2020).



Photograph 5: Dilapidated outhouse/shed with corrugated fibre cement & iron roof and possible internal cement sheeting (potentially containing asbestos) (17 November 2020).



Photograph 6: Excavation footprint, atop topographical high point of the site, facing north (17 November 2020).



Photograph 7: Cattle yard with race, adjacent to Coronation Road, facing north-east (17 November 2020).



Photograph 8: Grey natural clay material (alluvial soils) encountered beneath detected groundwater (3.0mBGL), within borehole 'BH112' during ASS investigation (17 November 2020).



Photograph 9: Alluvial sediments containing well rounded quartzose gravels, observed within borehole 'BH107' (17 November 2020).



Photograph 10: Cattle water trough in paddock west of dwelling (17 November 2020).



Photograph 11: Groundwater encountered within test pit advanced for geotechnical investigation (18 November 2020).



Photograph 12: Phyllite bedrock encountered within test pit advanced for geotechnical investigation (18 November 2020).



Photograph 13: High voltage power lines with discarded timber, located in central portion of the site, facing east (17 November 2020).



Photograph 14: Burnt rubbish, approximately 20m north-west of dwelling, facing west (17 November 2020).

Appendix J – Historic Titles Search

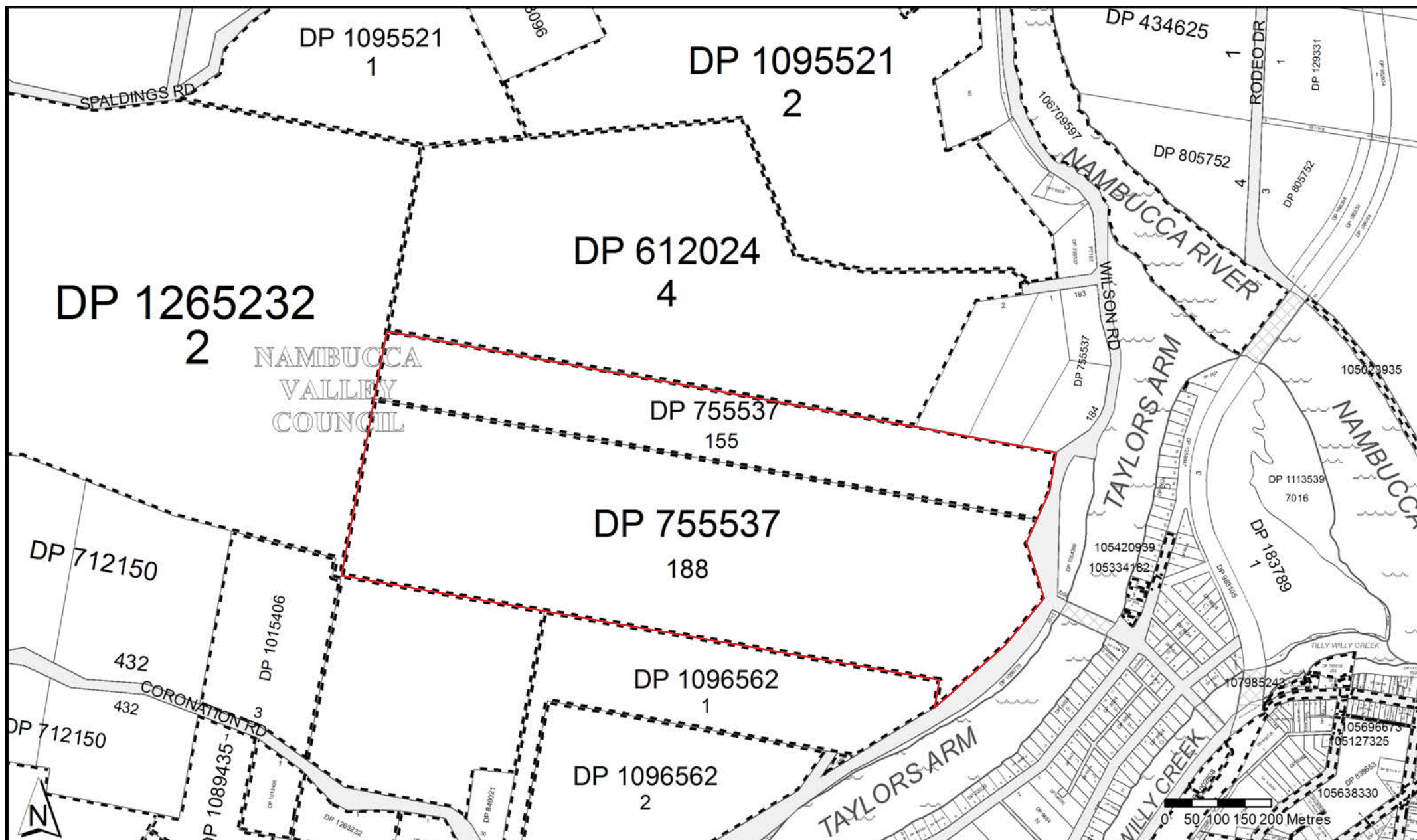
Cadastral Records Enquiry Report : Lot 155 DP 755537

Locality : CONGARINNI NORTH

Parish : BOWRA

LGA : NAMBUCCA VALLEY

County : RALEIGH



Cadastral Records Enquiry Report : Lot 155 DP 75537

Locality : CONGARINNI NORTH

Parish : BOWRA

LGA : NAMBUCCA VALLEY

County : RALEIGH

	Status	Surv/Comp	Purpose
DP6232 Lot(s): 4 Section : G  DP1126652	REGISTERED	SURVEY	EASEMENT
DP612024 Lot(s): 4  DP1005165	REGISTERED	SURVEY	EASEMENT
DP729486 Lot(s): 4  DP1005166	REGISTERED	SURVEY	EASEMENT
DP75537 Lot(s): 155, 188  DP1005165	REGISTERED	SURVEY	EASEMENT
 DP1022196	REGISTERED	SURVEY	EASEMENT
DP755539 Lot(s): 253  DP1126652	REGISTERED	SURVEY	EASEMENT
DP805752 Lot(s): 1  DP267391	REGISTERED	COMPILATION	EASEMENT
DP1002808 Lot(s): 1, 2  DP805735	HISTORICAL	SURVEY	SUBDIVISION
DP1011698 Lot(s): 1, 2  DP665234	HISTORICAL	COMPILATION	DEPARTMENTAL
Lot(s): 2  DP6232	HISTORICAL	SURVEY	UNRESEARCHED
 DP165343	HISTORICAL	SURVEY	UNRESEARCHED
 DP435251	HISTORICAL	SURVEY	UNRESEARCHED
DP1014895 Lot(s): 4  DP876063	HISTORICAL	SURVEY	SUBDIVISION
DP1015406 Lot(s): 1, 3  DP712150	HISTORICAL	SURVEY	SUBDIVISION
DP1073257 Lot(s): 1  DP849021	HISTORICAL	SURVEY	SUBDIVISION
DP1080260 Lot(s): 4  DP1111709	REGISTERED	SURVEY	SUBDIVISION
DP1089435 Lot(s): 2  DP1212329	REGISTERED	COMPILATION	CROWN ROAD ENCLOSURE
Lot(s): 1  DP712150	HISTORICAL	SURVEY	SUBDIVISION
 DP1015406	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 1, 2  DP861630	HISTORICAL	SURVEY	SUBDIVISION
DP1095521 Lot(s): 1, 2  DP612024	HISTORICAL	SURVEY	SUBDIVISION
DP1096562 Lot(s): 1, 2  DP1005165	REGISTERED	SURVEY	EASEMENT
DP1100322 Lot(s): 55, 56  DP8624	HISTORICAL	SURVEY	UNRESEARCHED

Caution: This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL** **ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

Cadastral Records Enquiry Report : Lot 155 DP 755537

Locality : CONGARINNI NORTH

Parish : BOWRA

LGA : NAMBUCCA VALLEY

County : RALEIGH

	Status	Surv/Comp	Purpose
DP1194918			
Lot(s): 31, 32			
 DP8624	HISTORICAL	SURVEY	UNRESEARCHED
 DP1138902	HISTORICAL	SURVEY	SUBDIVISION
DP1265232			
Lot(s): 1, 2			
 DP849021	HISTORICAL	SURVEY	SUBDIVISION
 DP1073257	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 1			
 DP603932	HISTORICAL	SURVEY	SUBDIVISION
Road			
Polygon Id(s): 105334182			
 DP1229924	REJECTED	SURVEY	REDEFINITION
Polygon Id(s): 105086735, 105334182, 105420939			
 DP1258847	REGISTERED	SURVEY	REDEFINITION
Polygon Id(s): 105023935, 105101073, 105122119, 105127326, 105292342, 105313328			
 DP1267078	REGISTERED	COMPILATION	SURVEY INFORMATION ONLY
Polygon Id(s): 105101073, 105122119, 105127325, 105127326, 105148455, 105158862, 105292342, 105297547, 105313328, 105345202, 105345204, 105463133, 105627823, 105633024, 105638330, 105648987, 105696673, 107985238, 107985239, 107985243			
 EX-SUR 92/58 DP124691			
Water Feature			
Polygon Id(s): 106709597			
 NSW GAZ.	05-04-2007	Folio : 2153	
ACQUIRED FOR COUNCIL PURPOSES			
PROPOSED EASEMENT FOR SEWER PIPELINE 3 WIDE SHOWN IN DP1100090			

Caution: This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL** **ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

Cadastral Records Enquiry Report : Lot 155 DP 755537

Locality : CONGARINNI NORTH

Parish : BOWRA

LGA : NAMBUCCA VALLEY

County : RALEIGH

Plan	Surv/Comp	Purpose
DP2037	COMPILATION	UNRESEARCHED
DP5574	SURVEY	UNRESEARCHED
DP6232	SURVEY	UNRESEARCHED
DP6750	SURVEY	UNRESEARCHED
DP7982	SURVEY	UNRESEARCHED
DP8624	SURVEY	UNRESEARCHED
DP9317	SURVEY	UNRESEARCHED
DP9654	SURVEY	UNRESEARCHED
DP9947	SURVEY	UNRESEARCHED
DP9962	SURVEY	UNRESEARCHED
DP12438	SURVEY	UNRESEARCHED
DP18353	SURVEY	UNRESEARCHED
DP22029	SURVEY	UNRESEARCHED
DP113102	COMPILATION	DEPARTMENTAL
DP115868	COMPILATION	DEPARTMENTAL
DP129331	COMPILATION	DEPARTMENTAL
DP168094	SURVEY	UNRESEARCHED
DP179067	COMPILATION	UNRESEARCHED
DP183789	SURVEY	UNRESEARCHED
DP185239	SURVEY	UNRESEARCHED
DP209616	SURVEY	SUBDIVISION
DP260691	SURVEY	SUBDIVISION
DP308762	SURVEY	UNRESEARCHED
DP320056	SURVEY	UNRESEARCHED
DP322511	SURVEY	UNRESEARCHED
DP331437	SURVEY	UNRESEARCHED
DP332788	SURVEY	UNRESEARCHED
DP332789	SURVEY	UNRESEARCHED
DP340621	SURVEY	UNRESEARCHED
DP346183	COMPILATION	UNRESEARCHED
DP346620	SURVEY	UNRESEARCHED
DP363096	COMPILATION	UNRESEARCHED
DP366623	SURVEY	UNRESEARCHED
DP386004	SURVEY	UNRESEARCHED
DP394765	SURVEY	UNRESEARCHED
DP404148	SURVEY	UNRESEARCHED
DP420305	SURVEY	UNRESEARCHED
DP434625	SURVEY	UNRESEARCHED
DP504824	COMPILATION	SUBDIVISION
DP521119	SURVEY	RESUMPTION OR ACQUISITION
DP521557	SURVEY	REDEFINITION
DP522374	SURVEY	SUBDIVISION
DP544560	SURVEY	RESUMPTION OR ACQUISITION
DP588440	SURVEY	SUBDIVISION
DP612024	SURVEY	SUBDIVISION
DP618920	SURVEY	SUBDIVISION
DP627679	COMPILATION	SUBDIVISION
DP655890	COMPILATION	DEPARTMENTAL
DP664763	COMPILATION	DEPARTMENTAL
DP665479	COMPILATION	DEPARTMENTAL
DP665480	COMPILATION	DEPARTMENTAL
DP712150	SURVEY	SUBDIVISION
DP729486	SURVEY	ROADS ACT, 1993
DP739058	SURVEY	SUBDIVISION
DP755537	COMPILATION	CROWN ADMIN NO.
DP755539	COMPILATION	CROWN ADMIN NO.
DP780292	COMPILATION	DEPARTMENTAL
DP805735	SURVEY	SUBDIVISION
DP805752	SURVEY	SUBDIVISION
DP832489	SURVEY	SUBDIVISION
DP834188	COMPILATION	SUBDIVISION
DP838653	COMPILATION	CONSOLIDATION
DP849021	SURVEY	SUBDIVISION
DP859339	SURVEY	CONSOLIDATION
DP863982	SURVEY	SUBDIVISION

Caution: This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL** **ACTIVITY PRIOR TO SEPTEMBER 2002** you must refer to the RGs Charting and Reference Maps.

Cadastral Records Enquiry Report : Lot 155 DP 75537

Locality : CONGARINNI NORTH

Parish : BOWRA

LGA : NAMBUCCA VALLEY

County : RALEIGH

Plan	Surv/Comp	Purpose
DP931206	COMPILATION	UNRESEARCHED
DP932350	SURVEY	UNRESEARCHED
DP934920	SURVEY	UNRESEARCHED
DP952934	COMPILATION	UNRESEARCHED
DP953625	COMPILATION	UNRESEARCHED
DP963105	SURVEY	UNRESEARCHED
DP963596	SURVEY	UNRESEARCHED
DP1002808	SURVEY	SUBDIVISION
DP1011698	SURVEY	SUBDIVISION
DP1013915	COMPILATION	ROADS ACT, 1993
DP1014895	SURVEY	SUBDIVISION
DP1015406	SURVEY	SUBDIVISION
DP1033790	COMPILATION	CONSOLIDATION
DP1054206	COMPILATION	DEPARTMENTAL
DP1056778	COMPILATION	DEPARTMENTAL
DP1067743	COMPILATION	DEPARTMENTAL
DP1073257	SURVEY	SUBDIVISION
DP1080260	COMPILATION	DEPARTMENTAL
DP1081007	COMPILATION	DEPARTMENTAL
DP1081739	COMPILATION	DEPARTMENTAL
DP1089435	SURVEY	SUBDIVISION
DP1095521	SURVEY	SUBDIVISION
DP1096562	COMPILATION	DEPARTMENTAL
DP1097816	COMPILATION	DEPARTMENTAL
DP1099219	COMPILATION	DEPARTMENTAL
DP1100322	SURVEY	SUBDIVISION
DP1113347	COMPILATION	DEPARTMENTAL
DP1113539	COMPILATION	DEPARTMENTAL
DP1113540	COMPILATION	DEPARTMENTAL
DP1113543	COMPILATION	DEPARTMENTAL
DP1113544	COMPILATION	DEPARTMENTAL
DP1177524	COMPILATION	DEPARTMENTAL
DP1194918	SURVEY	SUBDIVISION
DP1205689	COMPILATION	DEPARTMENTAL
DP1258847	SURVEY	REDEFINITION
DP1265232	SURVEY	SUBDIVISION

Caution: This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL**

ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.

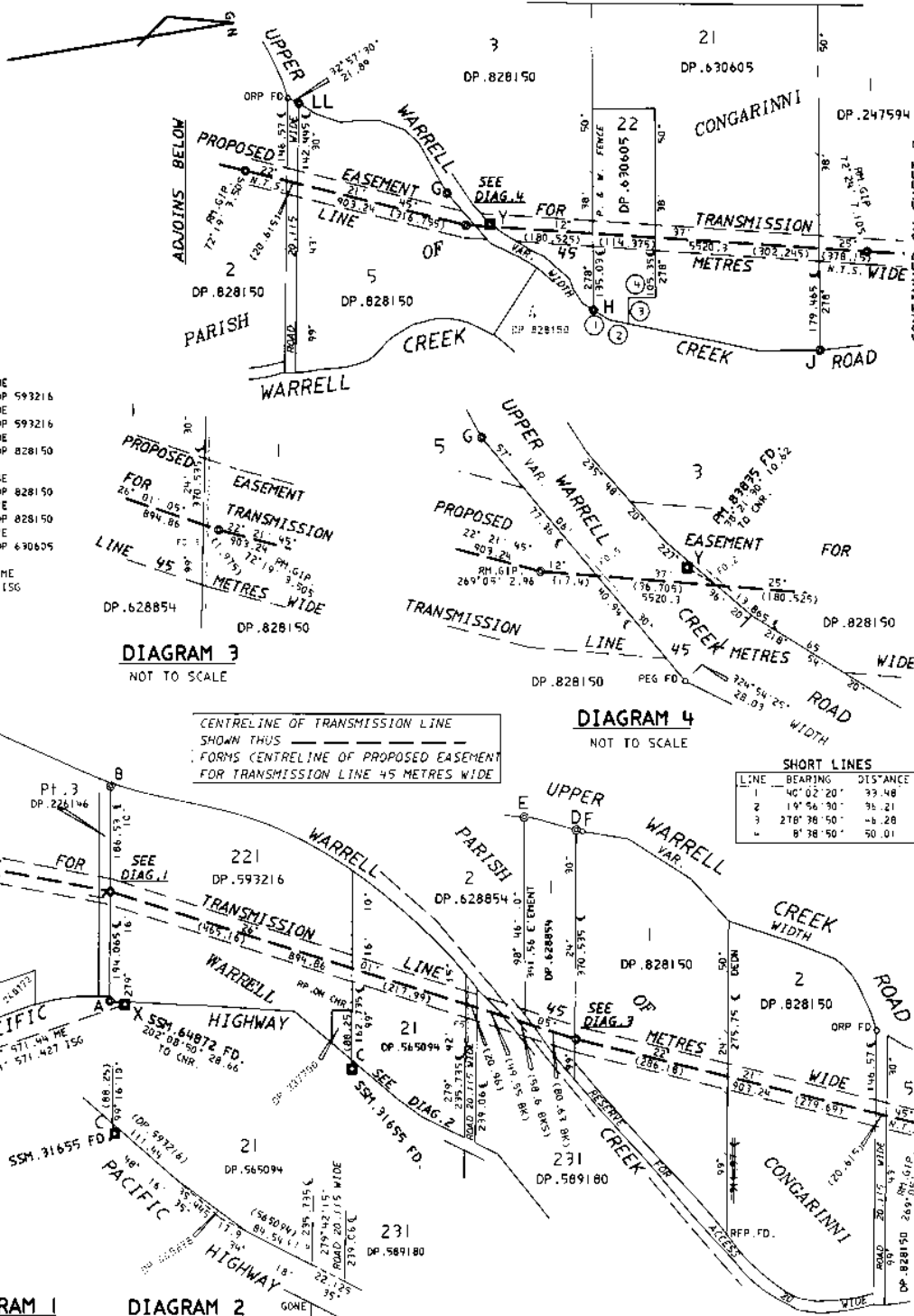
SURVEYORS (PRACTICE) REGULATION 1996: CLAUSE 32(2)				
MARK	ISG COORDINATES		ZONE	ACC
	EASTING	NORTHING		
SSM 31651	289063.365	1992893.709	56/2	3
SSM 31652	289156.080	199321.216	56/2	3
SSM 34872	289035.583	1993775.397	56/2	3
PM 03835	289040.801	1995964.547	56/2	3

COMBINED SEA LEVEL AND FACTOR VALUE 0.99994

SOURCE: ISG COORDINATES ADOPTED FROM
SURVEYOR GENERALS DEPARTMENT 21-9-98

REFERENCE MARKS					
CNR	FROM	BEARING	DISTANCE	REF	PLAN
A	RM GIP FD	279° 28' 00"	0.455	DP	226146
B	RM GIP FD	99° 16' 00"	0.5	DP	993216
C	SSM 31655 FD	262° 14' 10"	4.01	DP	973216
D	RM GIP FD	99° 24' 30"	0.5	DP	626854
E	RM GIP FD	98° 46' 10"	1.445	DP	628854
G	RM GIP FD	152° 59' 20"	0.5	DP	828150
H	RM GIP FD	279° 23' 00"	0.585	DP	247594
J	RM GIP FD	276° 17' 00"	0.5	DP	247594
LL	RM GIP FD	99° 22' 00"	0.5	DP	828150

CONNECTIONS				
A-B	274' 10" 0'	380.599	ME	
	269' 51' 00"	360.64	DP	5
A-C	22' 15" 0'	457.62	ME	
	2' 49' 35"	457.6	DP	5
D-E	202' 18' 35"	98.62	ME	
	192' 55' 5"	98.615	DP	8
D-F	24' 11' 30"	5.03		
F-G	40' 53' 35"	988.06	ME	
	31' 30' 15"	988.075	DP	8
G-H	26' 27' 45"	339.295	ME	
	37' 00' 25"	339.295	DP	8
H-J	8' 39' 10"	422.335	ME	
	9' 15' 40"	421.975	DP	6
SSM: 0.0472(X) + PM: 0.8315(Y)				
	17' 42' 20"	1773.135	ME	
	17' 42' 20"	1773.129	DP	15G

Registered **Carfax** 2-9-1999

C.A. ————

Title System TORRENS

Purpose	PROPOSED EASEMENT
---------	-------------------

Ref. No. PARISH, Y5197-7⁶, 41⁶, 43⁶

09 828150*

Last Plan	DP 7444, DP 9294 DP 24754, DP 26144B
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PLAN OF SITE OF PROPOSED
EASEMENT FOR TRANSMISSION LINE 45
METRES WIDE WITHIN LOT 13 DP.7444,
LOTS 8,9,10,11,14 & 15 SECTION M
DP.9654, LOT 1 DP.129483, LOT 2
DP.129487, LOT 3 DP.226146, LOT 1
DP.246173, LOT 1 DP.247594, LOTS 3 & 4
DP. 259115, LOT 2 DP. 261448
(CONTINUED ON SHEET 2)

LGA: NAMBUCCA

Locality: UPPER WARRELL CREEK

Parish: WARRELL, CONGARINNI

County: RALEIGH

This is sheet 1 of my plan in 4 sheets

ANTHONY PETER HART
ASPECT NORTH, LISMORE
A survey registered under the Surveyors Act 1924
herby certify that the survey represented in this
plan is accurate, has been made in accordance with
the Surveyors (Practice) Regulation 1996 and was
completed on 16 APRIL 1993

The subject is valid for EASEMENT ONLY

Qxram 4:100 X-Y, ISG

Yone - Suburban/Laurel

(Signature) _____
Surveyor registered under the Surveyors Act 1921

Picks used	n	preparation of	surveys/analyses
DP. 7444	DP. 27594	DP. 59216	DP. 71121
DP. 9654	DP. 24854	DP. 617074	DP. 73121
DP. 47886	DP. 259115	DP. 614701	DP. 79221
DP. 129483	DP. 261448	DP. 628854	DP. 80400
DP. 129487	DP. 504849	DP. 636055	DP. 80800
DP. 226146	DP. 565094	DP. 731068	DP. 82811
DP. 246173	DP. 689180	DP. 700586	DP. 88151

(CONTINUED ON SHEET 2)

PANEL FOR USE ONLY for statements of intention to dedicate public roads, to create public reserves, drainage reserves easements, restrictions on the use of land or positive covenants

TransGrid

SURVEYING SERVICES

TransGrid is the registered business name of
the Electricity Transmission Authority

COFFS HARBOUR - KEMPSEY
132kV Transmission Line

EASEMENT PROPOSED TO BE ACQUIRED

5. 59/006

P. 50146/1

ANTHONY PETER HART
ASPECT NORTH, LISMORE

A. P. M. 75

Surveyor Registered under Surveyors Act 1929

This is sheet _____ of the plan of _____ sheets
of covered by subdivision Certificate No. _____
of _____

Arthur Lewis Gordon/Research Manager/ Accredited Counselor

For use where space is insufficient in any part of Plan form 2

PLAN (CONTINUED FROM SHEET 1)
LOT 1 DP.504849, LOT 2 DP.565099, LOT
231 DP.599180, LOT 221 DP.594216,
LOT 1 DP.612024, LOT 165 DP.614701,
LOT 1 DP.622880, LOT 2 DP.630505,
LOT 630505, LOT 2 DP.631068, LOT 832 &
831 DP.711296, LOTS 15, 61 &
7 DP.755539, LOTS 154, 155, 156 & 168
DP.755537, LOT 210 DP.755539, LOTS 12
& 25 DP.792239, LOT 26 DP.804000, LOT
11 DP.808007, LOTS 1,2,3 & 5 DP.828150
LOT 11 DP.881530 & LOT 2 DP.882476 &
THE ROADS 10.06 WIDE, 20.115 WIDE,
WARRELL CREEK, TAYLORS ARL & TSR No.99

Prints used in preparation of survey/compilation
(CONTINUED FROM SHEET 1)

DP. 882476	R. 1453-17 4	R. 2996- 714
R. 222-1714	R. 2942-17 4	R. 3203- 714
R. 894-1714	R. 2943-17 4	R. 3292- 714

TransGrid

SURVEYING SERVICES

TransGrid is the registered business name of the Electricity Transmission Authority

COFFS HARBOUR – KEMPSEY
132kV Transmission Line

EASEMENT PROPOSED TO BE ACQUIRED

51 99/306

P. 50146/2

Reduction Ratio

SURVEYORS REFERENCE A261/2 CHECKLIST

SHORT LINES		
LINE	BEARING	DISTANCE
6	14° 34' 45"	108.255
7	352° 18' 45"	100.515
8	352° 18' 45"	21.5
9	358° 51' 45"	40.21
10	357° 35' 45"	141.195
11	9° 30' 10"	20.0
12	279° 30' 10"	39.29
13	106° 33' 00"	25.055
14	106° 33' 00"	135.965
15	98° 50' 00"	58.97
16	126° 18' 00"	20.78
17	126° 18' 00"	45.87

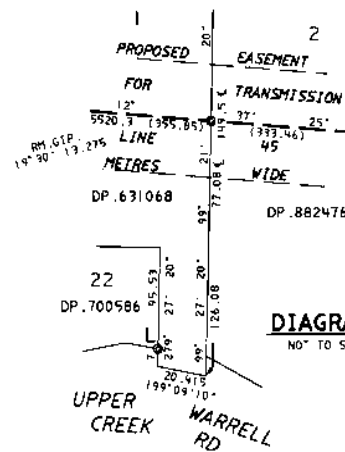


DIAGRAM 5
NOT TO SCALE

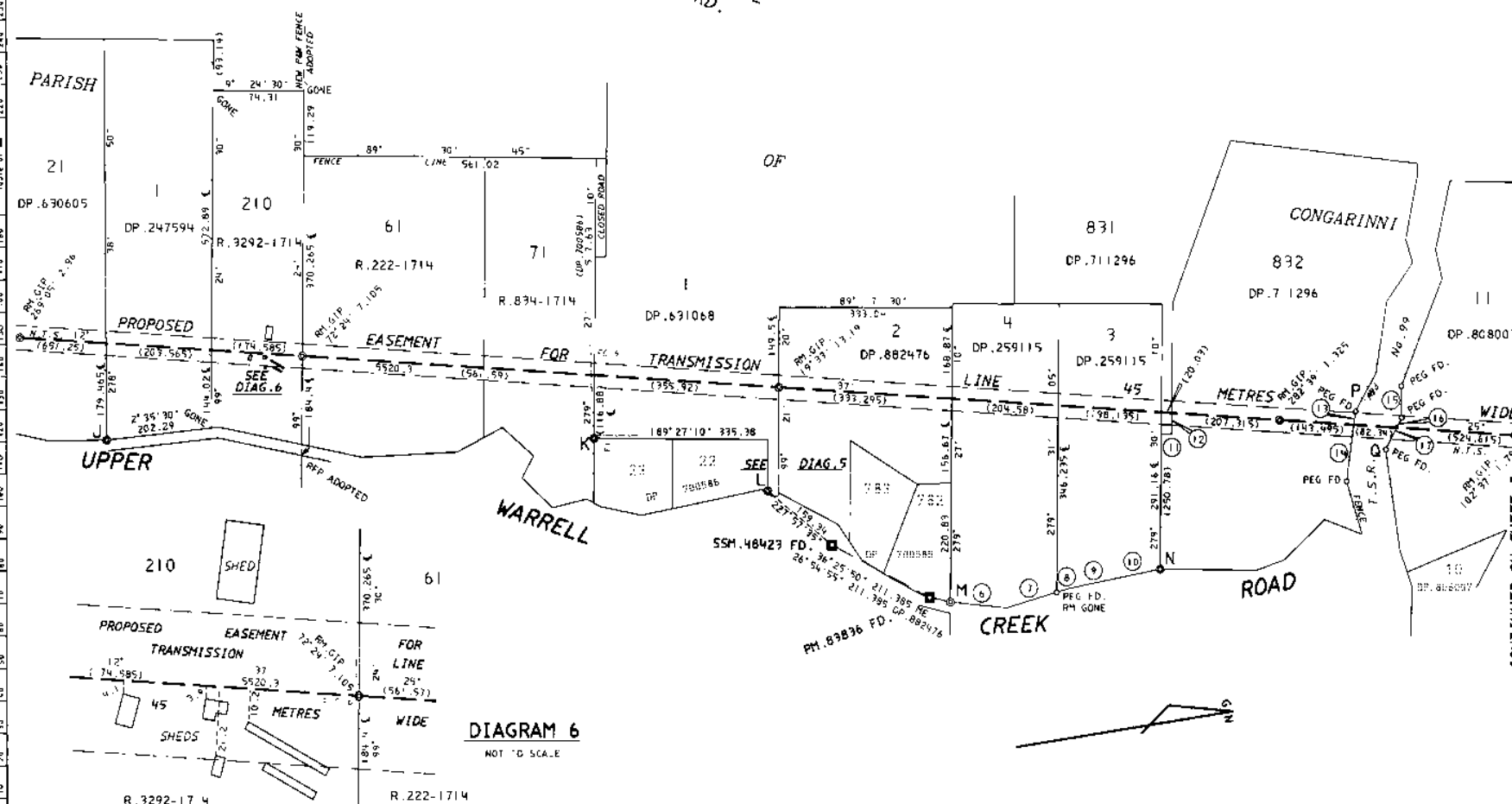
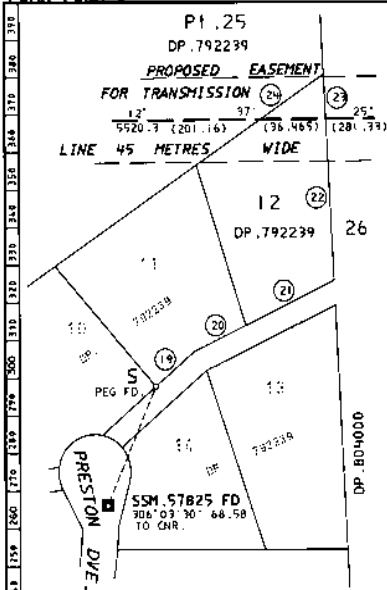


DIAGRAM 6
NOT TO SCALE

Plan Drawing only to appear in this space

Req:R049854 /Doc:DP 1005165 P /Rev:06-Sep-1999 /NSW LRS /Pgs:ALL /Prb:02-Dec-2020 14:16 /Seq:2 of 4
 @ Office of the Registrar-General /Src:INFOTRACK /Ref:congarrinni north



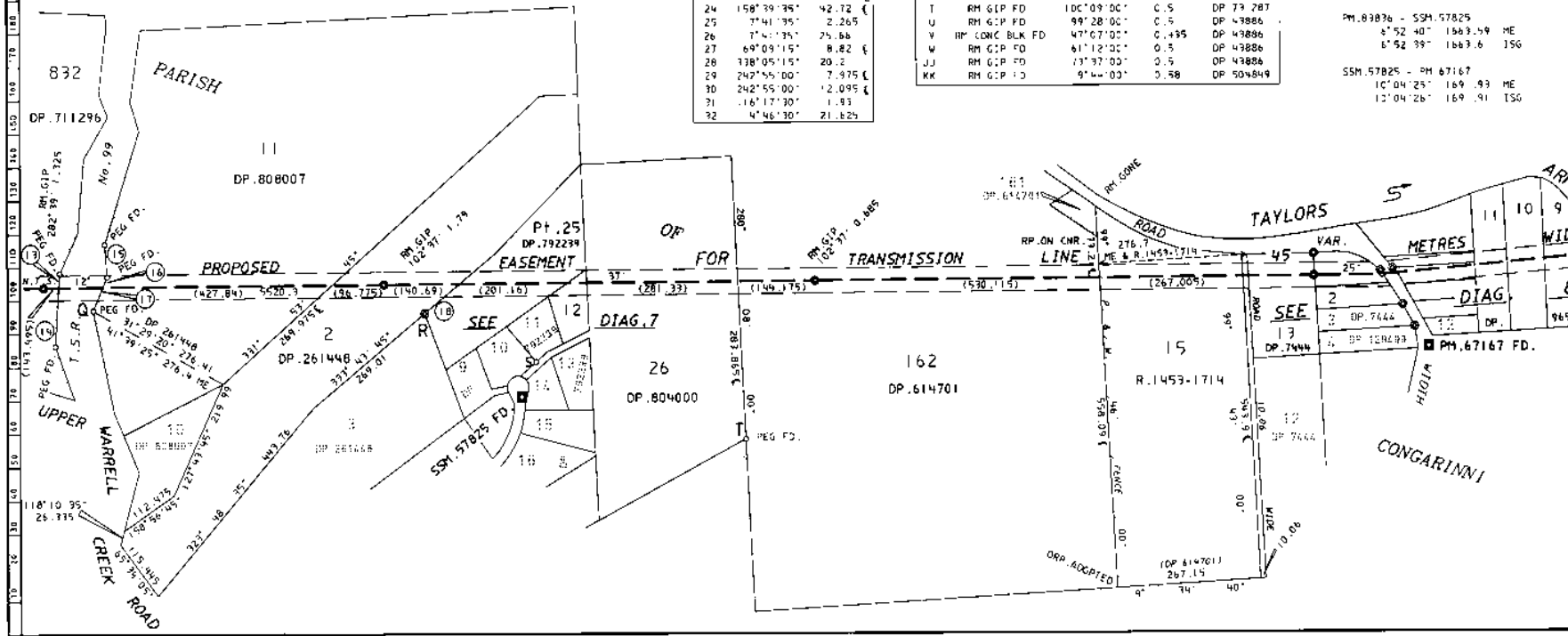
SURVEYORS (PRACTICE) REGULATION 1996: CLAUSE 92(2)				
MARK	ISG COORDINATES		ZONE	ACC
	EASTING	NORTHING		
SSM 57825	290455.854	1589196.673	56/2	2
PM 67167	290950.780	1600862.359	56/2	2
COMBINED SEA LEVEL AND SCALE FACTOR 0.999994				
SOURCE: ISG COORDINATES ADOPTED FROM SURVEYOR GENERAL'S DEPARTMENT 21-9-98				

SHORT LINES		
LINE	BEARING	DISTANCE
3	104°39'00"	25.055
14	104°39'00"	05.965
15	98°50'05"	58.97
16	126°18'05"	20.38
17	126°18'05"	45.87
18	333°43'45"	83.385
19	332°09'55"	28.36
20	347°09'15"	9.645
21	347°09'15"	54.43
22	280°08'15"	86.125
23	280°08'15"	23.89
24	158°39'35"	42.72
25	7°41'35"	2.265
26	7°41'35"	25.66
27	69°05'15"	8.82
28	138°05'15"	20.2
29	242°55'00"	7.975
30	242°55'00"	12.095
31	16°17'30"	1.93
32	4°46'30"	21.625

CENTRELINE OF TRANSMISSION LINE
 SHOWN THUS
 FORMS CENTRELINE OF PROPOSED EASEMENT
 FOR TRANSMISSION LINE 45 METRES WIDE

REFERENCE MARKS			
CNR	FROM	BEARING	DISTANCE
R	RM GIP FD	153°40'00"	0.5
T	RM GIP FD	100°09'00"	0.5
U	RM GIP FD	99°28'00"	0.5
V	RM CONIC BLK FD	47°07'00"	0.435
W	RM GIP FD	61°12'00"	0.5
JJ	RM GIP FD	13°37'00"	0.5
KK	RM GIP FD	9°44'00"	0.58

CONNECTIONS
 2-R 13°34'55" 618.91 ME
 3-24°50' 618.935 DP 261448
 S-T 32°41'05" 414.355 ME
 22°31'50" 414.355 DP 792239
 V-W 69°09'15" 74.13 ME
 54°26'00" 74.13 DP 43886
 L-AA 33°38'30" 153.42 ME
 23°55'00" 153.42 DP 43886
 PM 83836 - SSM 57825
 6°52'40" 1563.59 ME
 6°52'39" 1663.6 ISG
 SSM 57825 - PM 67167
 10°04'25" 169.93 ME
 12°04'26" 169.91 ISG



DP1005165

Registered: 2-9-1999

This is sheet 3 of my plan in 4 sheets
 dated 16-4-99
 ANTHONY PETER HART
 ASPECT NORTH, LISMORE

A. P. Hart
 Surveyor Registered under Surveyors Act 1929
 This is sheet 3 of the plan of
 as shown on the plan of
 as shown on the plan of
 as shown on the plan of

Authorised Person/Manager/Registered
 For use where space is insufficient in any panel on
 Plan Form 2

TransGrid
 SURVEYING SERVICES
 TransGrid is the registered business name of
 the Electricity Transmission Authority

COFFS HARBOUR - KEMPSEY
 132kV Transmission Line

EASEMENT PROPOSED TO BE ACQUIRED

S.I. 99/006 P. 50146/3

Reduct or Rot a 1:6000

SURVEYORS REFERENCE A261/3 CHECKLIST

DP1005165

Registered:  CAW 2-9-1999

This is sheet 4 of my photo in 4 sheets
dated 16-4-99

ANTHONY PETER HART
ASPECT NORTH, LISMORE

Surveyor Registered under Surveyors Act 1929

This is sheet _____ of the plan of _____ sheet _____
as covered by subdivision Certificate No. _____
of _____

Authorized Person/General Manager/ Accredited Certification

For use where space is insufficient in any panel on
Plan Form 2

TransGrid

SURVEYING SERVICES

TransGrid is the registered business name of
the Electricity Transmission Authority

COFFS HARBOUR - KEMPSEY
132kV Transmission Line

EASEMENT PROPOSED TO BE ACQUIRED

SURVEYORS (PRACTICE) REGULATION 1996: CLAUSE 12(2)				
MARK	1SG COORDINATES		ZONE	ACC
	EASTING	NORTHING		
PM.174867	291460.870	602368.917	56/2	9

COMBINED SEA LEVEL AND SCALE FACTOR 0.99999999

SOURCE: 1SG COORDINATES ADOPTED FROM
SURVEYOR GENERALS DEPARTMENT 21-9-98

REFERENCE MARKS					
CNR	FROM	BEARING	DISTANCE	REF PLAN	
BB	REF TREE FALLING FD	67° 33' 00"	1.99	R	R 3850-1714
BB	RM GMP FD	57° 54' 00"	0.455	R	R 3850-1714
CC	RM GMP FD	173° 19' 00"	0.475	R	R 3850-1714
CC	REF TREE BOX FD	128° 55' 00"	1.78	R	R 3850-1714
FF	RM GMP FD	100° 07' 00"	0.5	OP	OP 612024
GG	RM CONC BLK FD	206° 34' 30"	0.62	OP	OP 612024
GG	PM 74867	151° 58' 15"	1.08		
HH	RM GMP FD (DISTO) NEW REF	86° 00' 00"	0.475	OP	OP 612024

SHORT LINES		
L:NE	BEARING	DISTANCE
33	339°08'15"	20.12
34	51°10'40"	120.1
35	261°52'50"	69.785
36	261°29'10"	40.0
37	261°29'10"	116.805
38	206°05'10"	260.2

CONNECTIONS

BB-CC 249° 57' 55" 223.77 ME
239° 44' 40" 223.68 R.3850-1714

00-EE 51°55'00" 495.09 ME
41°45'20" 495.14 S 2996-1714 & 22942-1714

FF-66 94°49'10" 573.655 ME
84°44'40" 573.7 DP 61202-

PM.67167 - PM.74867
18° 42' 43" 1590.CB ME
18° 42' 43" 1590.C95 :SG

CENTRELINE OF TRANSMISSION LINE
SHOWN THUS ————
FORMS CENTRELINE OF PROPOSED EASEMENT
FOR TRANSMISSION LINE 45 METRES WIDE

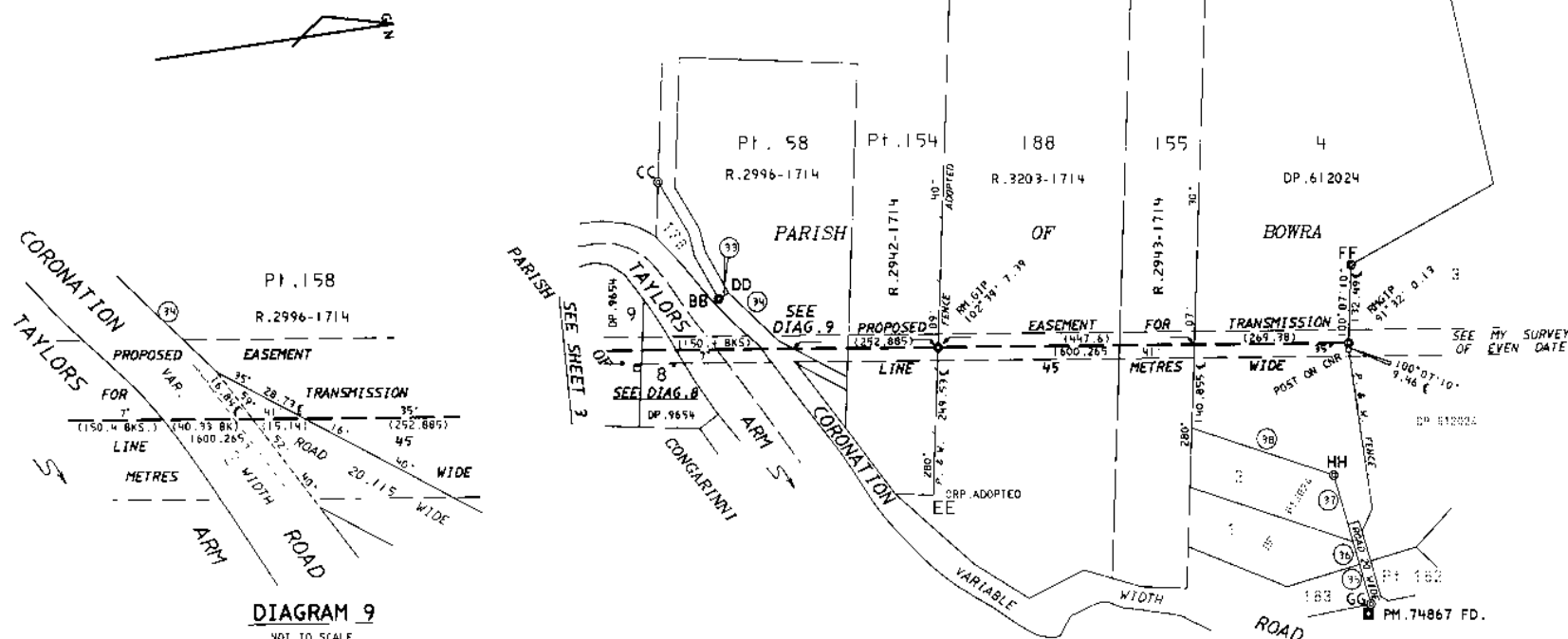


DIAGRAM 9
NOT TO SCALE

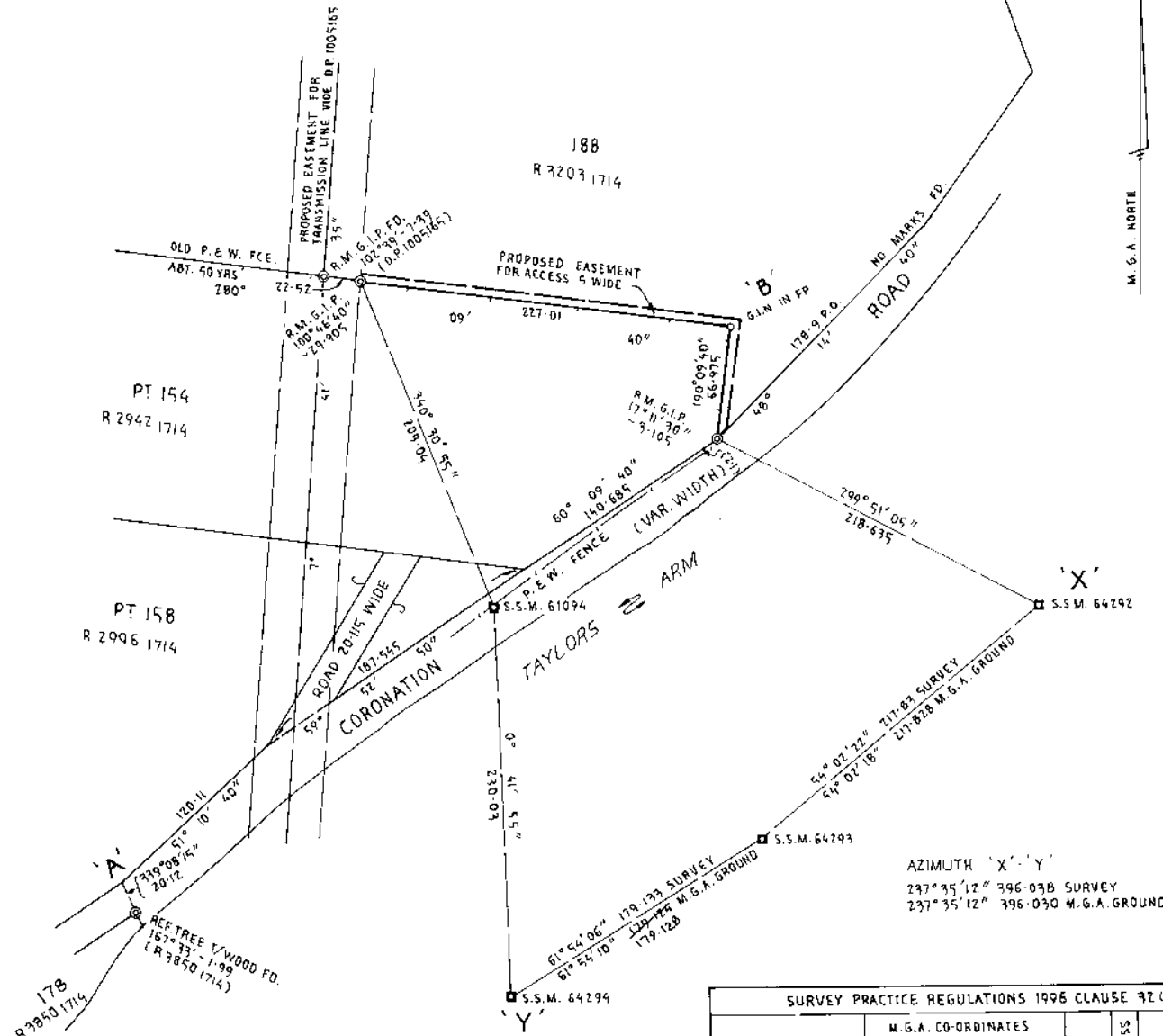
5. 99/326

P. 50146 / 4

Reduction Ratio 1:6000

SURVEYORS REFERENCE A261/4 CHECKLIST

Plan Drawing only to appear in this space



SURVEY PRACTICE REGULATIONS 1996 CLAUSE 92 (2)					
MARK	M.G.A. CO-ORDINATES		ZONE	CLASS	DATE
	EASTING	NORTHING			
S.S.M. 6429Z	491454.706	5602806.785	56	B	17-11-00
S.S.M. 64293	491278.464	5602678.918	56	B	17-11-00
S.S.M. 64294	491420.510	5602594.988	56	B	17-11-00

SOURCE : S.C.I.M.S. ADOPTED FROM L.I.C.
COMBINED SCALE FACTOR 0.9996

P. 50218

Cat. N^o R 2943 1714.

Partly cancels R2942/1714.

Papers: C.S.P. 1607

Nambucca Shire

O'Rourke's Estate
Clo. Sett. Prom.

PLAN OF PORTION 188

County of Raleigh

Parish of Bowra

LAND DISTRICT OF Bellingen

LAND BOARD DISTRICT OF Kempsey

Resumed Area No

Pastoral Holding, Eastern Division.

Applied for under the

Section of the Crown Lands Act of 1 by

Within the Orara Gold Field: Procl^d 12th Aug. 1881

Within R 91 fr. Occ^d under M.R. or B.L. Notified 4th Sep. 1888. **Revoked 22-11-57.**

Forms pt of Por^{ty} 154 (C.P. 09/247), proposed to be purchased under Part 2, Clo. Sett. Amend. Act 1918.

Por. 188 Farm Allotted to Frank Ralph Augustus Pitman

Pt Sett. Pur. 1920. 30 Oct. 22nd "O'Rourke's" Estate. Vide Gaz. 5th Nov. 1920. (Includes also por 155. Total area 14120 2/10p.)

Within R. 1819 from occn. under M.R. or B.L. nold. 19th Oct. 1928.

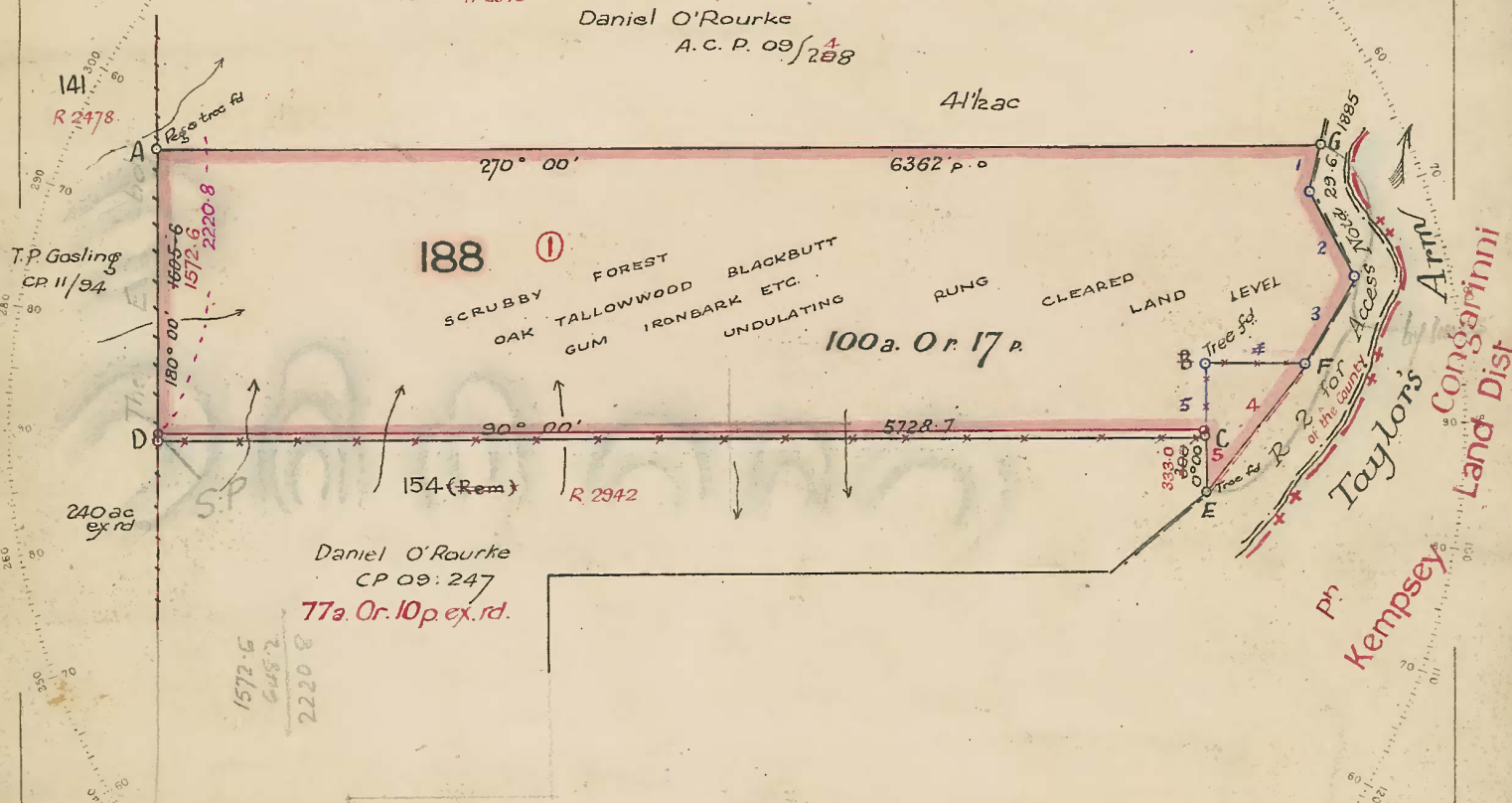
(Por 188 Now Frederick Henry Mahnken and Doris Catherine Mahnken Sale completed C.S. & R.S. 46/7942

See also R. 2943 1714

155 R 2943

Daniel O'Rourke
A.C.P. 09/247

41 1/2 ac



PLAN MICROFILMED

NO ADDITIONS OR AMENDMENTS TO BE MADE

Azimuth taken from Por 154 Line E.B.

Field Book Vol. 1920 Folios 147-150

Reference to Corners

Corner	Bearing	From	Links	N ^o on Tree
A	88° 5'	Mahogany	62.8	155-188
B	186° 4'	D ^o Box	122.9	188
C	88° 5'	do	62.8	188-154
D	186° 4'	D ^o Tree	122.9	188-154
E	338° 17'	Stump	15.9	154-188
F	192° 22'	D ^o Tree	107.1	188
G	4° 57'	Oak	23.1	188-155

Reference to Traverse

Line	Bearing	Distance
1	13° 36'	524.30 ft. 255 po
2	332° 4'	532 po
3	29° 0'	557 po
4	38° 05'	889.3 (pole)
5	90° 0'	548.7 po
6	0° 0'	333.0 po
7	0° 0'	400

for amendments in red, see memo with papers: C.S.P. 1607
For amendments to corners C, D & E, see memo with papers: C.S.P. 1607

I hereby certify that I in person made and on the 11th June 1920 completed the survey represented on this plan on which are written the bearings and lengths of the lines measured by me and I declare that the survey has been executed in accordance with the regulations published for the guidance of Licensed Surveyors and the practice of the Department of Lands.

W. D. Lowderby - Licensed Surveyor

Transmitted to the District Surveyor with my letter of 7-6-20 N^o 60

Voucher N^o Passed
Calculation Book N^o C155 Folio 88 LRB
Checked and Parted by Brown 9th Aug. 1920
Examined by F. F. 10th August 1920
Plan approved

Officer-in-Charge.

Closer Settlement Branch.

Value of Improvements

Charted on Hoed 11/12/20

Examined

Scale 20 Chains to an Inch

R 3203 1714

Standard Exd
28/5/9/20



SEARCH DATE

2/12/2020 2:10PM

FOLIO: AUTO CONSOL 5665-169

Recorded	Number	Type of Instrument	C.T. Issue
11/5/1993		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 5665-169	

PARCELS IN CONSOL ARE:
155/755537, 188/755537.

18/8/1997	3328337	MORTGAGE	EDITION 1
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29/9/1997	3452055	DISCHARGE OF MORTGAGE	
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29/9/1997	3452056	TRANSMISSION APPLICATION	
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29/9/1997	3452057	DISCHARGE OF MORTGAGE	EDITION 2
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10/1/1998	3721792	DEPARTMENTAL DEALING	
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2/9/1999	DP1005165	DEPOSITED PLAN	
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17/7/2000	6949488	DISCHARGE OF MORTGAGE	
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17/7/2000	6949489	MORTGAGE	EDITION 3
-----------	---------	----------	-----------

27/11/2000	7143022	REQUEST	
------------	---------	---------	--

22/1/2001	DP1022196	DEPOSITED PLAN	
-----------	-----------	----------------	--

14/3/2001	7472694	VARIATION OF MORTGAGE	EDITION 4
-----------	---------	-----------------------	-----------

10/1/2002	8084618	TRANSFER GRANTING EASEMENT	EDITION 5
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4/2/2002	8324941	MORTGAGE	EDITION 6
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18/3/2002	8437491	DISCHARGE OF MORTGAGE	
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18/3/2002	8437492	MORTGAGE	EDITION 7
-----------	---------	----------	-----------

3/2/2004	AA381504	DISCHARGE OF MORTGAGE	
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3/2/2004	AA381505	DISCHARGE OF MORTGAGE	
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3/2/2004	AA381506	TRANSFER	EDITION 8
----------	----------	----------	-----------

14/2/2004	AA417068	MORTGAGE	EDITION 9
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27/2/2004	AA456014	MORTGAGE	EDITION 10
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4/6/2004	AA694459	CAVEAT	
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END OF PAGE 1 - CONTINUED OVER

SEARCH DATE

2/12/2020 2:10PM

FOLIO: AUTO CONSOL 5665-169

PAGE 2

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
18/10/2005	AB844897	WITHDRAWAL OF CAVEAT	
18/10/2005	AB844898	DISCHARGE OF MORTGAGE	
18/10/2005	AB844899	DISCHARGE OF MORTGAGE	EDITION 11
18/10/2005	AB844900	CAVEAT	
14/11/2005	AB911702	MORTGAGE	EDITION 12
25/11/2005	AB939797	CAVEAT	
10/5/2006	AC298257	WITHDRAWAL OF CAVEAT	
10/5/2006	AC298258	DISCHARGE OF MORTGAGE	
10/5/2006	AC298259	MORTGAGE	EDITION 13
16/10/2006	AC672532	CAVEAT	
20/12/2006	AC823658	CAVEAT	
8/2/2007	AC911131	REQUEST	
14/3/2007	AC945941	WITHDRAWAL OF CAVEAT	
14/3/2007	AC945942	CAVEAT	
23/3/2007	AD10295	CAVEAT	
8/5/2007	AC908049	REJECTED - CAVEAT	
8/6/2007	AD179040	CAVEAT	
29/6/2007	AD234560	WITHDRAWAL OF CAVEAT	
29/6/2007	AD234561	WITHDRAWAL OF CAVEAT	
29/6/2007	AD234562	WITHDRAWAL OF CAVEAT	
29/6/2007	AD234563	DISCHARGE OF MORTGAGE	
29/6/2007	AD234564	MORTGAGE	EDITION 14
27/7/2007	AD302199	CAVEAT	
21/1/2008	AD357606	VARIATION OF MORTGAGE	EDITION 15
21/1/2008	AD525648	CAVEAT	
21/1/2008	AD525688	CAVEAT	
21/1/2008	AD536102	CAVEAT	
8/2/2008	AD580911	REJECTED - APPLICATION FOR PREPARATION OF LAPSING NOTICE	

END OF PAGE 2 - CONTINUED OVER

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SEARCH DATE

2/12/2020 2:10PM

FOLIO: AUTO CONSOL 5665-169

PAGE 3

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
29/2/2008	AD797749	CAVEAT	
19/6/2008	AE34244	WRIT	
15/9/2009	AE934709	CAVEAT	
23/9/2009	AE588389	REJECTED - TRANSFER BY MORTGAGEE UNDER POWER OF SALE	
16/6/2010	AF389107	APPLICATION FOR PREPARATION OF LAPSING NOTICE	
20/8/2010	AF584850	WITHDRAWAL OF CAVEAT	
20/8/2010	AF584851	WITHDRAWAL OF CAVEAT	
20/8/2010	AF584852	APPLICATION TO CANCEL RECORDING OF WRIT	
24/8/2010	AF307573	REJECTED - TRANSFER BY MORTGAGEE UNDER POWER OF SALE	
13/12/2010	AF938040	CAVEAT	
20/1/2011	AG10805	CAVEAT	
8/8/2012	AH160896	CAVEAT	
2/10/2012	AH272399	WITHDRAWAL OF CAVEAT	
2/10/2012	AH272400	WRIT	
24/9/2014	AI810226	APPLICATION FOR PREPARATION OF LAPSING NOTICE	
24/9/2014	AI810227	APPLICATION FOR PREPARATION OF LAPSING NOTICE	
27/7/2015	AJ687538	DEPARTMENTAL DEALING	
10/6/2016	AK500951	CAVEAT	
10/10/2017	AM792517	CAVEAT	

*** END OF SEARCH ***

congarinni north

PRINTED ON 2/12/2020

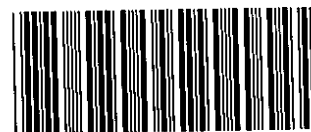
InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

RP3



TRANSMISSION APPLICATION

Section 93 Real Property Act 1900



3452056 V

Office of State Revenue use only



(A) **LAND**

Show no more than 20 References to Title.

Volume 5665 Folio 169
A/C 5665 - 169

(B) **REGISTERED DEALING**

If applicable.

Mortgage No. M142

(C) **LODGED BY**

L.T.O. Box

545D

Name, Address or DX and Telephone

JOHN McLAREN & CO.
DX 588 SYDNEY

REFERENCE (max. 15 characters):

(D) **DECEASED REGISTERED PROPRIETOR**

ALICE ISABEL WALLACE, the said Alice Isabel Wallace having survived the other joint tenant ALFRED ROY WALLACE who died on 25th July, 1978.

(E) **APPLICANT**

TA

JANICE CLAIRE IRVINE
of 34 Yarramundi Road, Port Macquarie
HIST.

(F) I, the Applicant, being entitled as Executrix of the will/estate of the Deceased Registered Proprietor (who died on 8 November 1998) pursuant to Probate/Letters of Administration No. 8802618 granted on 21 March 1998 to JANICE CLAIRE IRVINE apply to be registered as proprietor of the estate or interest of the Deceased Registered Proprietor in the Land/Registered Dealing specified above.

(G) Certified correct for the purposes of the Real property Act 1900.

DATE 20 September 97

Signed in my presence by the Applicant who is personally known to me.

R. M. Mack J. PR
Signature of Witness

RODERICK M. MACK
Name of Witness (BLOCK LETTERS)

8 MADRID ST. PORT MACQUARIE
Address of Witness

Janice
XJCI
Signature of Applicant

EVIDENCE SIGHTED (office use only)

CHECKED BY (office use only)

SEE 3452056

CONSENT OF EXECUTOR OR ADMINISTRATOR

(H)

I, JANICE CLAIRE IRVINE **Executor of the will /Administrator of the estate**
of the Deceased Registered Proprietor, hereby consent to this application.

R. M. Mack J. D.
Signature of Witness

RODERICK M. MACK
Name of Witness (BLOCK LETTERS)

8 PARRADOG ST. PORT MACQUARRIE
Address of Witness

Janice
Signature of Executor/Administrator

INSTRUCTIONS FOR COMPLETION

STAMP DUTY: If the Applicant is a devisee, beneficiary, next-of-kin or otherwise beneficially entitled or if the Deceased Registered Proprietor died prior to 31 December 1981 the application must be presented to the Office of State Revenue prior to lodgment at the Land Titles Office.

1. The Application must be completed clearly and legibly in permanent, dense, black or dark blue non-copying ink. If using a dot-matrix printer the print must be letter-quality.
2. Do not use an eraser or correction fluid to make alterations: rule through rejected material. Initial each alteration in the lefthand margin.
3. If the space provided at any point is insufficient, you may annex additional pages. These must be the same size as the form; paper quality, colour, etc, must conform to the requirements set out in Land Titles Office Information Bulletin No. 19. All pages of any annexure must be signed by the person executing the Application and any attesting witness.
4. The following instructions relate to the marginal letters on the application.

(A) LAND

Show the relevant Reference to Title. If there are more than 20 show none in this panel. Place ALL of them on an annexure (see 3 above) with 20 per sheet.

(B) REGISTERED DEALING

Show the registration number of any lease, mortgage or charge in regard to which the Applicant is applying to be registered as a proprietor.

(C) LODGED BY

This section relates to the person or firm lodging the Application at the Land Titles Office.

Reference (max. 15 characters) This is optional. Any slashes, dots, blank spaces, etc, will be counted as characters.

(D) DECEASED REGISTERED PROPRIETOR

Show the name in full. Address and occupation need not be shown.

(E) APPLICANT

Show the name in full. Address and occupation need not be shown.

(F) WILL/ESTATE, etc

Amend "will/estate", "Probate/Letters of Administration" and "Land/Registered Dealing" as appropriate.

In the relevant spaces show the capacity (executor, devisee, etc) in which the Applicant is entitled to apply, the number and date of grant of the Probate or Letters of Administration pursuant to which the application is made, and the name of the person to whom the grant was made.

(G) EXECUTION

General The application must be executed by or on behalf of the Applicant.

By the Applicant Personally The application must be signed in the presence of an adult witness who is not an Applicant and who knows the party executing personally. The witness should complete the appropriate section of the application.

By the Applicant's Attorney The Power of Attorney must be registered in the General Register of Deeds at the Land Titles Office. The execution should take the form, "AB by her attorney XY [full name] pursuant to Power of Attorney Book 1234 Number 567".

Under Authority If the application is made pursuant to any statutory, judicial or other authority, except a Power of Attorney (see above), the nature of the authority should be disclosed.

By a Corporation under Seal The execution should include a statement that the seal has been properly affixed, for example, "... pursuant to a resolution of the board of directors ...". Alternatively, all those attesting the affixing of the seal must state their position in the corporation.

(H) CONSENT OF EXECUTOR OR ADMINISTRATOR

This is required only where the Applicant claims to be entitled other than as executor, administrator or trustee.

The completed Application must be lodged by hand at the LAND TITLES OFFICE, Queen's Square, Sydney, together with the Certificate of Title, the probate or letters of administration (or a copy thereof certified by a solicitor to be a true copy) and a completed Notice of Sale.

If you have any questions about filling out the form, please call 228-6666 and ask for our Customer Services Branch.

Film With
3452056

IN THE SUPREME COURT OF
NEW SOUTH WALES
PROBATE DIVISION

Grant No. 8802618

In the estate of
ALICE ISABEL WALLACE

late of Wingham in the State of New South Wales

Widow

deceased.

PROBATE

Deceased died: 8 November 1987

Probate of the last Will and Testament

of the abovenamed deceased (a true copy of which Will is hereunto
annexed) is hereby granted to JANICE CLAIRE IRVINE of 50
Murray Street, Wingham the executrix named in the said Will.

The inventory attached hereto lists property disclosed to the Court
in accordance with section 81A of the Wills, Probate and
Administration Act, 1898, and is issued by the Court under section
91 (2) of that Act.

Dated: 21 March 1988

By the Court


Deputy Registrar.

 EXTRACTED BY:

WALKER SLACK & SMITH
SOLICITORS
DX.7004 TAREE
fi



NEW SOUTH WALES

REGISTER OF DEATHS

3452056

Surname of deceased	WALLACE	
Other names	Alfred Roy	
Occupation	Retired Farmer	
Sex and Age	Male 67 years	
Marital status	Married	
Date of death	20th July, 1977	
Place of death	Port Macquarie (3/125 Bridge St.)	
Usual residence	3/125 Bridge Street, Port Macquarie	
Place of birth	Barraba, N.S.W.	
Father — Surname	WALLACE	
Other names	Laban	
Mother — Maiden surname	TAYLOR	
Other names	Susan	
Place of marriage	Tamworth, N.S.W.	
Age at marriage	24 years	
To whom married	Alice Isabel Parnell	
Children	Terence deceased, Janice 40 years	
Informant	J.C. Irvine, daughter 6 Brell Place, Kingswood	
Cause of death	(a) Bronchopneumonia (b) Bronchogenic carcinoma (c) Multiple metastases	
By whom certified	P.G. Valanju, Medical Practitioner	
Particulars of burial or cremation	23rd July, 1977 Presbyterian Cemetery, Barraba	
Particulars of registration	J. B. Holliday Principal Registrar	Date 23rd August, 1977 Number 105217

I hereby certify that
 this is a true copy of
 particulars recorded in
 a Register in the State
 of New South Wales
 in the Commonwealth
 of Australia.

Barbara Fletcher

Registrar
 17-09-97





FOLIO: AUTO CONSOL 5665-169

SEARCH DATE	TIME	EDITION NO	DATE
2/12/2020	1:59 PM	15	21/1/2008

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA NAMBUCCA VALLEY
PARISH OF BOWRA COUNTY OF RALEIGH
TITLE DIAGRAM SEE SCHEDULE OF PARCELS

FIRST SCHEDULE

ANTHONY JOHN BROWNLEE

(T AA381506)

SECOND SCHEDULE (7 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 7143022 EASEMENT FOR TRANSMISSION LINE 45 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1005165
- 3 8084618 EASEMENT FOR ACCESS 5 WIDE AFFECTING THAT PART OF LOT 188 IN DP755537 SHOWN SO BURDENED IN DP1022196
- 4 AD234564 MORTGAGE TO STARBERG INVESTMENTS PTY LTD
AD357606 VARIATION OF MORTGAGE AD234564
- * 5 AG10805 CAVEAT BY DIETER BIERMANN & URSULA BIERMANN
- * 6 AK500951 CAVEAT BY NWC FINANCE PTY LTD
- * 7 AM792517 CAVEAT BY PAUL GERARD WESTON

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

TITLE DIAGRAM

LOT 155 IN DP755537
LOT 188 IN DP755537

CROWN PLAN 2943.1714
CROWN PLAN 3203.1714.

*** END OF SEARCH ***

Appendix K – Data Analysis

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			17/12/2020 9:10:26 AM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	As											
12												
13	General Statistics											
14	Total Number of Observations				53		Number of Distinct Observations				18	
15							Number of Missing Observations				2	
16	Minimum				2		Mean				15.57	
17	Maximum				330		Median				9	
18	SD				44.69		Std. Error of Mean				6.139	
19	Coefficient of Variation				2.871		Skewness				6.96	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.245		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.422		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.122		Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL				25.85		95% Adjusted-CLT UCL (Chen-1995)				31.94	
31							95% Modified-t UCL (Johnson-1978)				26.83	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				5.352		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.785		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.279		Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value				0.126		Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				0.897		k star (bias corrected MLE)				0.859	
42	Theta hat (MLE)				17.35		Theta star (bias corrected MLE)				18.12	
43	nu hat (MLE)				95.09		nu star (bias corrected)				91.04	
44	MLE Mean (bias corrected)				15.57		MLE Sd (bias corrected)				16.8	
45						Approximate Chi Square Value (0.05)				70.04		
46	Adjusted Level of Significance				0.0455		Adjusted Chi Square Value				69.53	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				20.23		95% Adjusted Gamma UCL (use when n<50)				20.38	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.881		Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk P Value				1.7428E-5		Data Not Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic				0.139		Lilliefors Lognormal GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L	
55	5% Lilliefors Critical Value					0.122	Data Not Lognormal at 5% Significance Level						
56	Data Not Lognormal at 5% Significance Level												
57													
58	Lognormal Statistics												
59	Minimum of Logged Data					0.693	Mean of logged Data					2.093	
60	Maximum of Logged Data					5.799	SD of logged Data					0.844	
61													
62	Assuming Lognormal Distribution												
63	95% H-UCL					14.9	90% Chebyshev (MVUE) UCL					15.99	
64	95% Chebyshev (MVUE) UCL					18.04	97.5% Chebyshev (MVUE) UCL					20.88	
65	99% Chebyshev (MVUE) UCL					26.47							
66													
67	Nonparametric Distribution Free UCL Statistics												
68	Data do not follow a Discernible Distribution (0.05)												
69													
70	Nonparametric Distribution Free UCLs												
71	95% CLT UCL					25.66	95% Jackknife UCL					25.85	
72	95% Standard Bootstrap UCL					25.68	95% Bootstrap-t UCL					77.08	
73	95% Hall's Bootstrap UCL					64.52	95% Percentile Bootstrap UCL					27.53	
74	95% BCA Bootstrap UCL					34.7							
75	90% Chebyshev(Mean, Sd) UCL					33.98	95% Chebyshev(Mean, Sd) UCL					42.33	
76	97.5% Chebyshev(Mean, Sd) UCL					53.9	99% Chebyshev(Mean, Sd) UCL					76.65	
77													
78	Suggested UCL to Use												
79	95% Chebyshev (Mean, Sd) UCL					42.33							
80													
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.												
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)												
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.												
84	For additional insight the user may want to consult a statistician.												
85													