Preliminary Risk Screen Assessment

5483-5495 Princes Highway, Traralgon

Stable Property Group Pty Ltd

20 December 2023

→ The Power of Commitment

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Executive Summary

This preliminary risk screen assessment (PRSA) was prepared by [redacted] an Environmental Auditor appointed pursuant to the Environment Protection Act 2017.

This PRSA is subject to, and must be read in conjunction with, the limitations set out in section 1.5 and the assumptions and qualifications contained throughout the Report.

Table 1 Summary of PRSA Information

Auditor	[redacted]
Auditor account number	75645
Name of person requesting PRSA	[redacted] of Stable Property Group Pty Ltd
Relationship of person requesting PRSA to the Site	Site owner
Name of Site owner	[redacted]
Date of Auditor engagement	8 September 2023
Completion date of the PRSA	20 December 2023
Reason for PRSA	Rezoning of land from farming to general residential
Elements of the environment assessed	Land
Planning permit number or requirement detail if applicable	N/A
EPA Region	Gippsland
Municipality	City of Latrobe
Dominant – Lot on plan	Lot 1 TP823034, Lot 1 TP954239
Additional – Lot on plan (s)	-
Site/premises name	-
Building/complex sub-unit No.	-
Street/Lot – Lower No.	5483
Street/Lot – Upper No.	5495
Street name	Princes Highway
Street type	Highway
Suburb	Traralgon
Postcode	3844
Site area (m^2)	572,000 m^2
Plan of Site/premises/location showing the PRSA Site boundary attached	Refer to Figure 1 and Figure 2
Members and categories of support team utilised	-
Further work or requirements	Environmental Audit
Nature and extent of continuing risk of harm	The PRSA did identify potential sources that would likely contaminate the Site. Soil at the Site within the homestead area and southeast portion have been identified to contain elevated heavy metals and asbestos containing material.
Outcome of PRSA report	Based on the findings of the PRSA, the Auditor is of the opinion that the Site is likely to be contaminated and an environmental audit is required for the proposed use of general residential and commercial.

Table 2 Physical Site Information

Historical land use	Farming (grazing)
Current land use	Farming (grazing)
Proposed land use	Sensitive Use – Other (Lower Density) and Commercial
Current land use zoning	Farming Zone – Schedule 1 (FZ)
Proposed land use zoning	Commercial 1 Zone (C1Z) and General Residential Zone – Schedule 3 (GRZ3)
Surrounding land use – north	Farming (grazing), low-density residential
Surrounding land use – south	Princes Hwy, railway, farming (grazing/cropping)
Surrounding land use – east	Farming (grazing), low-density residential, commercial (used car sales)
Surrounding land use – west	Farming (grazing), low-density residential, hospital site (PUZ3)
Has EPA been notified about the Site under Section 40 of the Environment Protection Act 2017	No
Nearest surface water receptor - name	Boyds Creek
Nearest surface water receptor – direction	On-Site
Site aquifer information	Alluvial terrace deposits
Groundwater segment	Expected to be Segment A2

Abbreviations

ACM	Asbestos Containing Material
AHD	Australian Heigh Datum
bgl	below ground level
BTEXN	Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene
EIL	Ecological Investigation Level
EPA	Environment Protection Authority
ERS	Environment Reference Standard
ESL	Ecological Screening Level
HIL	Health Investigation Level
HSL	Health Screening Level
LOR	Limit of Reporting
m	Metres
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NHMRC	National Health and Medical Research Council
PFAS	Per- and Polyfluorinated Substances
PRSA	Preliminary Risk Screen Assessment
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percent Difference
TDS	Total Dissolved Solid
TPH	Total Petroleum Hydrocarbons
TRH	Total Recoverable Hydrocarbons (represents extracted biological and petroleum hydrocarbons (TPH) and is the normal laboratory analysis method)

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1. Introduction

1.1 Background

[redacted] an environmental auditor (contaminated land) appointed under Division 1 of Part 8.3 of the Environment Protection Act 2017 ("the auditor") of GHD Pty Ltd (GHD) was engaged by Stable Property Group Pty Ltd (Stable) at the Hollydale Estate, 5483-5495 Princes Highway, Traralgon, herein referred to as 'the Site.' The location of the Site is shown as Figure 1.

GHD understands that Stable seek to rezone the Site from Farming Zone (FZ) to the Commercial 1 Zone (C1Z) and General Residential Zone – Schedule 3 (GRZ3). Correspondence from EPA Victoria indicated the requirement to complete a PRSA for the purpose of further informing planning and environmental Site assessment requirements for the Site. A PRSA is a screening tool which is recommended for Sites which are expected to have a low risk of contamination and therefore may not require an environmental audit. The PRSA process is based on the preliminary Site investigation (PSI) process outlined in the National Environment Protection (Assessment of Site Contamination) Measure (NEPM 1999). A PRSA is different to a PSI in that it must be conducted by an EPA appointed environmental auditor, and the auditor must prepare a preliminary risk screen assessment statement to accompany the PRSA report on completion of the assessment. The assessment involves a review of the PSI (if already completed) by the auditor.

This report sets out the results of a PRSA conducted in accordance with Division 2 of Part 8.3 of the Environment Protection Act 2017 (the Act). The report was completed in accordance with the guidelines issued by the EPA for PRSAs of contaminated Sites specifically EPA publication 2021, Guideline for Conducting Preliminary Risk Screen Assessments.

1.2 Purpose of PRSA

The purpose of this PRSA is to:

- Assess the likelihood of the presence of contamination at the Site:
- Determine if an environmental audit is required for the proposed land use of residential, and
- If an environmental audit is required, recommend a scope for the audit (to be submitted to EPA)

1.3 PRSA scope and methodology

The scope or work undertaken by GHD included:

- Review of the report prepared by Beveridge Williams (Appendix B) dated 13 July 2022, which includes:
- Site inspection by the Auditor
- Review the requirement for an environmental audit and define the environmental audit area

The PRSA is primarily based on information and findings from the Beveridge Williams & Co Pty Ltd, 2022, Preliminary Contamination Assessment 5483 & 5495 Princes Highway, Traralgon (Appendix B). Other publicly available data sources have been reviewed and are referenced throughout.

1.4 Auditor's support team

The environmental auditor's support team that assisted with this PRSA are provided in Table 3.

Table 3 ***Auditor's support team***

Name	Role	Contribution to PRSA
[redacted]	Technical Director	Assisted in drafting the PRSA.
[redacted]	Environmental Scientist	Assisted in drafting the PRSA.
[redacted]	Environmental Scientist	Assisted in drafting the PRSA.

1.5 Standards and guidelines

The PRSA was completed in general accordance with the following standards and guidelines:

– Environment Protection Act 2017
– Environment Protection Regulation 2021
– Environment Reference Standard 2021
– Environmental Auditor Guidelines – Provision of statements and reports for environmental audits and preliminary risk screen assessments (EPA Publication 2022), August 2021
– Guidelines for conducting preliminary risk screen assessments (EPA Publication 2021), February 2022
– National Environment Protection Council, 1999. National Environment Protection (Assessment of Site Contamination) Measure (as amended 2013)
– Standards Australia, 2005, AS 4482.1-2005, Australian Standard: Guide to the Investigation and Sampling of Potentially Contaminated Soil. Part 1: Non-volatile and Semi-volatile Compounds
– Standards Australia, 1999, AS 4482.2-1999, Australian Standard: Guide to the Sampling and Investigation of Potentially Contaminated Soil. Part 2: Volatile Substances
– GHD Standard Operating Procedures

1.6 Information about your PRSA

This preliminary risk screen assessment report for 5483-5495 Princes Highway, Traralgon, Victora ("Report") has been prepared in accordance with Division 2 of Part 8.3 of the Environment Protection Act 2017. The Report represents the Environmental Auditor's opinion of the likelihood of the presence of contaminated land and requirement for an environmental audit as per the Preliminary Risk Screening Assessment Statement at the date the Preliminary Risk Screening Assessment Statement is signed.

This Report:

1. Has been prepared by [redacted] of GHD Pty Ltd ("GHD") and their team as indicated in the appropriate sections of this Report for Stable Property Group Pty Ltd;
2. May be used and relied on by Stable Property Group Pty Ltd;
3. May be used by and provided to EPA for the purpose of meeting statutory obligations in accordance with the relevant sections of the Environment Protection Act 2017;
4. May be provided to other third parties but such third parties' use of or reliance on the Report is at their sole risk because of, and subject to, the uncertainties associated with this PRSA as noted in the following paragraphs and in this Report; and
5. May only be used for the purpose as stated in Sections 1.2 of the Report (and must not be used for any other purpose)

To the maximum extent permitted by law, all implied warranties and conditions in relation to the services provided by GHD and the Report are excluded unless they are expressly stated to apply in this Report.

The services undertaken by the Environmental Auditor and their team in connection with preparing this Report were undertaken in accordance with current professional practice and with regard to Publication 2021 Guidelines for conducting preliminary risk screen assessments (EPA Victoria, 2022) and legislation and guidelines that are listed in Table 4 of this report.

The opinions, conclusions and any recommendations in this Report are based on assumptions made by the Environmental Auditor when undertaking the PRSA and preparing the Report. The assumptions are specified throughout this Report.

In undertaking the PRSA and preparing this Report, the Environmental Auditor is required to make judgments regarding the completeness, reliability and accuracy of the information, and the potential for contamination to impact human health and the environment. The Environmental Auditor makes these judgments based on the information available, the potential impact of contaminants based on the current scientific understanding of the significance and behaviour of contaminants, the specific characteristics of the contaminants matrices and current regulatory policy and legislation. The nature of contaminated Site investigations is such that there is always some uncertainty in these matters; as new information can arise, the science underlying these matters can change, and regulatory policy and legislation can change. The Environmental Auditor and their team have formed their opinion on the basis of the information available and their understanding of the current science and regulatory policy and legislation, applying processes and considerations in accordance with professional practice. It is possible that new information, a changed scientific understanding or changed regulatory policy and requirements will become available in the future that may lead to a different interpretation. The Environmental Auditor and GHD expressly disclaim responsibility for changes that arise because of any such new information, changed science, or changed regulatory policy or legislation.

The Environmental Auditor and GHD have prepared this Report on the basis of information provided by Mimosa Homes and others who provided information to GHD (including Government authorities). The Environmental Auditor and GHD have verified the information received to the extent practicable and within the scope specified in Section 206(1)(a) of the Act and as detailed in Publication 2021 Guidelines for conducting preliminary risk screen assessments (EPA Victoria, 2022). Some information has not been practicable to verify or check, and the Environmental Auditor and GHD are not responsible for this information, including (but not limited to) errors in, or omissions from, the Report, which were caused or contributed to by errors in, or omissions from, this unverified information.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the Site may be different from the Site conditions found at the specific sample points.

The Environmental Auditor and GHD are not responsible for the Unverified Information, including (but not limited to) errors in, or omissions from, the Report, which were caused or contributed to by errors in, or omissions from, the Unverified Information.

This Report should be read in full and no excerpts are taken to be representative of the Report findings.

2. Site setting

2.1 Site details

The Site details and description are summarised in Table 4. The location of the Site is shown as Figure 1.

Table 4 Summary of Site Details

Civic address	5483-5495 Princes Highway, Traralgon, 3844
Lot and Plan Number	Lot 1 TP823034, Lot 1 TP954239
Site centroid [1]	980636.56 m E 5756881.42 m S
Site area	572,000 m^2
Local government area	Latrobe
Current Planning zone	Farming FZ1
Current land use	Rural residential and farming (grazing)
Planning overlays	Aboriginal Cultural Heritage Designated Bushfire Prone Areas Design and Development Overlay (DD08 and DD010) The Site is not subject to Environmental Audit Overlay (EAO)
Proposed future Planning Zone	Commercial 1 Zone (C1Z) and General Residential Zone – Schedule 3 (GRZ3)
Surrounding land use	North: Farming (grazing), low-density residential South: Princes Hwy, railway, farming (grazing/cropping) East: Farming (grazing), low-density residential, commercial (used car sales) West: Farming (grazing), low-density residential, hospital site (PUZ3)
Notes: Co-ordinates are provided with reference to the Geocentric Datum of Australia (GDA) 1994 MGA 55	

2.2 Environmental site setting

The environmental Site setting is summarised in Table 5 and is a summary of information provided in the Preliminary Contamination Assessment Report Appendix B.

Table 5 Summary of Site environmental settings

Topography	The Site slopes towards Boyd's Creek that flows through the centre of the Site and slopes towards the dams in the south and northeast portions of the Site. Low areas such as the dams and creek have an elevation of 50 m AHD at the lowest point and the highest elevation in the west and east of the Site is at 60 m AHD.
Surface Water	Boyd Creek flows through the centre of the Site in the north-south alignment.
Geology	The Site is located within Pleistocene aged alluvial terrace deposits comprising gravel, sand & silt and alluvial, floodplain deposits. Pliocene to Pleistocene aged Haunted Hills Formation (Nlh) are present in the northeast portion of the Site, comprising sand, silt and gravel.
Hydrogeology	Depth to water table is expected to be less than 10 meters below ground level. Total dissolved solids are expected to be between 1,000 and 3,500 mg/L.
Groundwater well database	A search of the Visualising Victorias Groundwater Website on 15 September 2023 identified one groundwater well is registered on Site that was completed in 1947. An additional five groundwater wells were identified with 1 km of the Site boundary. No groundwater chemistry or monitoring data was available regarding the onsite bore or additional bores surrounding the Site.
Acid sulfate soils	The probability of occurrence of acid sulfate soils on the Site is reported to be low with very low confidence.

Figure 1 Site Location and boundary (taken from Beveridge Williams report provided in Appendix B)

2.3 Public records

Information obtained from Victoria Unearthed Database is summarised in Table 6.

Table 6 Summary of EPA Victoria Information and High-Risk Sites

Item	Site	Surrounding area (within 1 km of the Site)
Priority Site register	None	None
Pollution notices	None	None
PFAS[1] investigation	None	None
Environmental audits	None	One audit, see Section 2.3.1 for details.
EPA Licence Register	None	None
Victorian Landfills	None	None
Groundwater Quality Restricted Use Zones	None	None

2.3.1 Environmental Audit

One environmental audit Site was located approximately 3.5 km northwest of the Site at the Maryvale Papermill Landfill. The landfill is operated by Australian Paper. Numerous environmental audits have been carried out at the Papermill Site with respect to ongoing regulatory requirements pertaining to landfill gas generation and migration and operational aspects of the papermill. Generally, findings from completed environmental audits were that landfill gas may not be under control and required further assessment and that the landfill was impacting the shallow aquifers and nearby surface water receptors. It is noted that the location of the landfill is north of Traralgon West Road and is beyond 2 km from the Site. The potential risk of landfill gas impacts to the Site from this source is unlikely.

2.4 Site history

2.4.1 Historical aerial images

A total of eight historical aerial photographs of the Site and surrounds (within 150 m) between 1945 and 2022 were provided in the Preliminary Contamination Assessment report (Appendix B) and have been summarised in Table 7.

Table 7 Summary of Historical Aerial Photograph Observations

Year/s	Site	Surrounding area
1945 DELWP	The Site appears to be used for grazing or vacant land. A homestead comprising a house and adjacent shed is observed in the southeast portion of the Site. Boyds Creek is observed in the western half of the Site. An unnamed stream is observed in the northeast portion of the Site. A small dam is observed in the northeast portion near the unnamed stream. Soil disturbance is also observed in the northeast portion. Trees are sparsely observed across the Site. Rows of trees are observed along the western, and southern Site boundaries as well as a row running north to south in the centre of the Site and a row running east to west towards near the homestead. A high concentration of trees is observed in the northeast corner, along Boyds Creek and near the homestead. Potential ground disturbance is evident in the northeast portion of the Site, however due to the image resolution it is unclear.	Pastoral land (grazing/cropping) is observed offsite in all directions. Princes Highway and a railway is observed immediately offsite to the south.
1955 DELWP	Site appears relatively unchanged.	Site surroundings appears relatively unchanged.

[1] Per- and polyfluoroalkyl substances

Year/s	Site	Surrounding area
1970 DELWP	A dam has been constructed in the central portion of the Site connecting to Boyds Creek. Soil disturbance is evident on the northern side of the dam extent and in proximity to the Boyds Creek alignment and is likely attributable to the presence of boggy ground. The small dam connecting to the unnamed stream in the northeast has been expanded. Some vegetation has been removed across the Site (in the northeast and southeast portions in particular).	Site surroundings appears relatively unchanged.
1987 DELWP	An additional residence has been constructed in the southeast corner of the Site. A tennis court has been constructed to the west of the main residence/homestead onsite. Trees have been planted along the northern and western boundary of the Site.	A potential residential building, dam and potential caravan park has been constructed immediately offsite to the east.
2012 Near Maps	Trees have been removed from the northern part of the Site (along Boyds Creek), and in the southeast portion of the Site. Stockpiling of items is observed around the sheds and road in the homestead area. A transformer is observed on a power pole within the homestead area. A small dam appears to have been formed in the northeast, east of the larger dam attached to the unnamed creek. Ground disturbance observed in the 1945 image is still visible.	The caravan park offsite to the east has been removed and turned into a used car centre.
2015 Near Maps	Trees have been removed from the northeast corner of the Site. Soil and vegetation stockpiles near the northern boundary and west of the unnamed creek have been cleared. Small structure to central north portion of the Site has been demolished and building material is evident. A small dam in the eastern portion of the Site appears to have been backfilled.	Site surroundings appears relatively unchanged.
2018 Near Maps	Ground disturbance and soil stockpiling is observed in the southeast corner of the Site. Building material is no longer visible in the northern portion. Ground disturbance and vegetation removal is evident in the central portion of the Site, west of the dam. Vegetation removal has occurred in the southwest portion of the Site.	Site surroundings appears relatively unchanged.
2022 Near Maps	Soil stockpiling in the southeast corner remains, although the majority of stockpiling work appears to have ceased. Further vegetation removal has occurred along the western boundary. Further ground disturbance to central eastern portion of the Site.	A compound (potential school) has been constructed offsite to the west

2.4.2 Surrounding land use & businesses

A review of Victoria Unearthed and google maps identified Traralgon West CFA Fire Station (580 m west of the Site) and Latrobe Valley Airport (700 m west of the Site) within 1 km of the Site boundary. These Sites have a high potential to be offsite sources of PFAS contamination from the historical Site usage. It is noted that their proximity to the Site indicates a low potential for significant impact to occur.

No historical business listings were found in and within 1 km of the Site based on review of the Victoria Unearthed website[2].

[2] Accessible online at the time of writing this report at the following link: **https://mapshare.vic.gov.au/victoriaunearthed/**

2.5 Previous report

Berveridge Williams & Co Pty Ltd (Beveridge Williams) conducted a Preliminary Contamination Assessment of the Site in 2022. The assessment included a desktop study, Site inspection and soil sampling. The report is included in Appendix B.

2.5.1 Land use and criteria

The proposed Site use is to be standard residential and commercial, and Beveridge Williams classified the Site as Sensitive Use (Other) and Commercial, requiring the following environmental values to be protected according to Environment Reference Standard (ERS) 2021:

- Maintenance of ecosystems (modified and highly modified)
  - National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No.1) (NEPM (Amendment 2013)) - Ecological Investigation Levels (EIL) (including Site specific levels for copper, nickel and zinc)
  - NEPM (Amendment 2013) – Ecological Screening Levels (ESL) for Total Recoverable Hydrocarbons (urban residential and public open space)
  - Also referenced as a guide was the EPA Fill Material criteria (presented within EPA Publication 1828.2 *Waste disposal categories – characteristics and thresholds*)
- Human health
  - NEPM (Amendment 2013) Human Health Investigation Levels (HIL) for sensitive uses (i.e. primary schools - HIL A) and CRC Care 2011 Direct Contact HSL A
- Buildings and Structures
  - Contamination must not cause the land to be corrosive to or adversely affect the integrity of structures or building materials
- Aesthetics
  - Contamination must not cause the land to be offensive to the senses of humans
- Production of food, flora, fibre
  - Contamination of land must not adversely affect produce quality, flora and fibre yield or affect the level of any indicator in food, flora and fibre produced at the Site (or that may be produced)

2.5.2 Key site inspection findings

A Site inspection was undertaken by Beveridge Williams on 21 June 2022 and their key findings are summarised below.

- Boyds Creek was observed transecting the Site from the north to the south. A large dam was observed in the southern portion of the Site. An additional dam was observed in the eastern portion of the Site. Rubble (brick, concrete, ceramic) was observed at surface in the dry base of Boyds Creek
- A small dry dam was observed in the northeast portion of the Site. Surface fill material was observed in the area. Bullet tips were observed at surface throughout the area
- Surface discolouration was observed in the southeast portion of the Site, attributed to fill material. Anecdotal evidence from the landowner indicated that:
  - the fill material was brought onsite to infill a gully
  - the fill material was primarily sourced from the nearby hospital during construction and other soil dumping
- Small soil stockpiles (approx. 2 m^3) were observed in the southeast portion of the Site
- A small (<10 m^3) stockpile of rubble (concrete, brick, ceramic, cement sheeting non asbestos) was observed in the homestead area
- Bullets observed in east of Site at a former dam and adjacent area with surface fill
- Remaining stockpiles present in the southeast of the Site

2.5.3 Key findings from soil investigation

A total of 29 surface soil samples (including 20 grid-based and 9 targeted), six soil bores (using a hand auger) and nine test pits were completed in June 2022. The locations of each surface soil sample, borehole and test pit completed by Beveridge Williams are shown on Figure 2 and Figure 3.

The boreholes were hand augered to a maximum depth of 0.6 m bgl and samples were generally collected at 0, 0.3 and 0.5 m bgl. The boreholes targeted the area referred to by Beveridge Williams as a former dam and the homestead area. Test pits targeted the southeast of the Site where stockpiles were observed in historical aerials and were undertaken to maximum depth of 3.2 m bgl.

The depth and type of fill was observed to varying depths and comprised various lithology types, with a maximum depth of 3 m bgl (maximum depth observed in the southeast). Four pieces of bonded asbestos were identified onsite and Beveridge Williams considers that trace bonded asbestos fragments to be localised to within the fill area and surface.

Two locations were found to have exceedances of the adopted NEPM criteria (Site specific EIL, HIL/HSL C and HIL/HSL A) for lead (BH01) or zinc (BH05).

Elevated lead concentrations found at BH01 were only found in the surface with the deeper sample (0.5-0.6 m) below adopted criteria. The elevated lead was suspected to be associated with the identified bullets near the borehole and was considered not to represent the soil conditions across the entire Site.

Elevated zinc concentrations at BH05 were considered likely to be associated with galvanised metal roofing on a nearby shed and are unlikely to be representative of the entire Site. Further investigation to determine the extent of elevated zinc was considered necessary.

Six samples (BH01, BH04, BH05, BH06, TP03, 220621-SS01) were found to exceed the EPA waste category of fill for heavy metals. One sample (BH01-0.0-0.1) was found to be above the EPA IWRG 1828.2 Category C upper limit for lead. Most of these exceedances were located in the homestead area within surficial soils for nickel, zinc and arsenic and would likely require offsite disposal as Category D or Category C contaminated Soil. Elevated fluoride and nickel were identified in one sample each and following statistical analysis, the soil across the Site was classified as being below the EPA IWRG 1828.2 Upper Fill Limit.

2.5.4 Limitations and exclusions of assessment

The supplied report provided in Appendix B has been referenced for information only with respect to the purpose of the PRSA. The Auditor notes that a detailed appraisal of the quality assurance and quality control processes implemented by Beveridge Williams with respect to the data obtained from field investigations has not been undertaken. The following general limitations are noted with respect to the Beveridge Williams report:

– Soil investigation depths across the broader Site were limited to shallow soils only. Assessing the distribution and thickness of fill soil at the Site is therefore limited
– The analytical schedule implemented during the soil sampling program was generally limited and the rationale regarding the selection of analytes at various sampling locations is unclear (i.e., a sample analysis quality plan was not attached to the Beveridge Williams report). No soil analysis for PFAS was conducted
– No groundwater or surface water investigation and analysis was included as part of the preliminary contamination assessment

Figure 2 ***Gridded Surface Sample locations by Beveridge Williams***

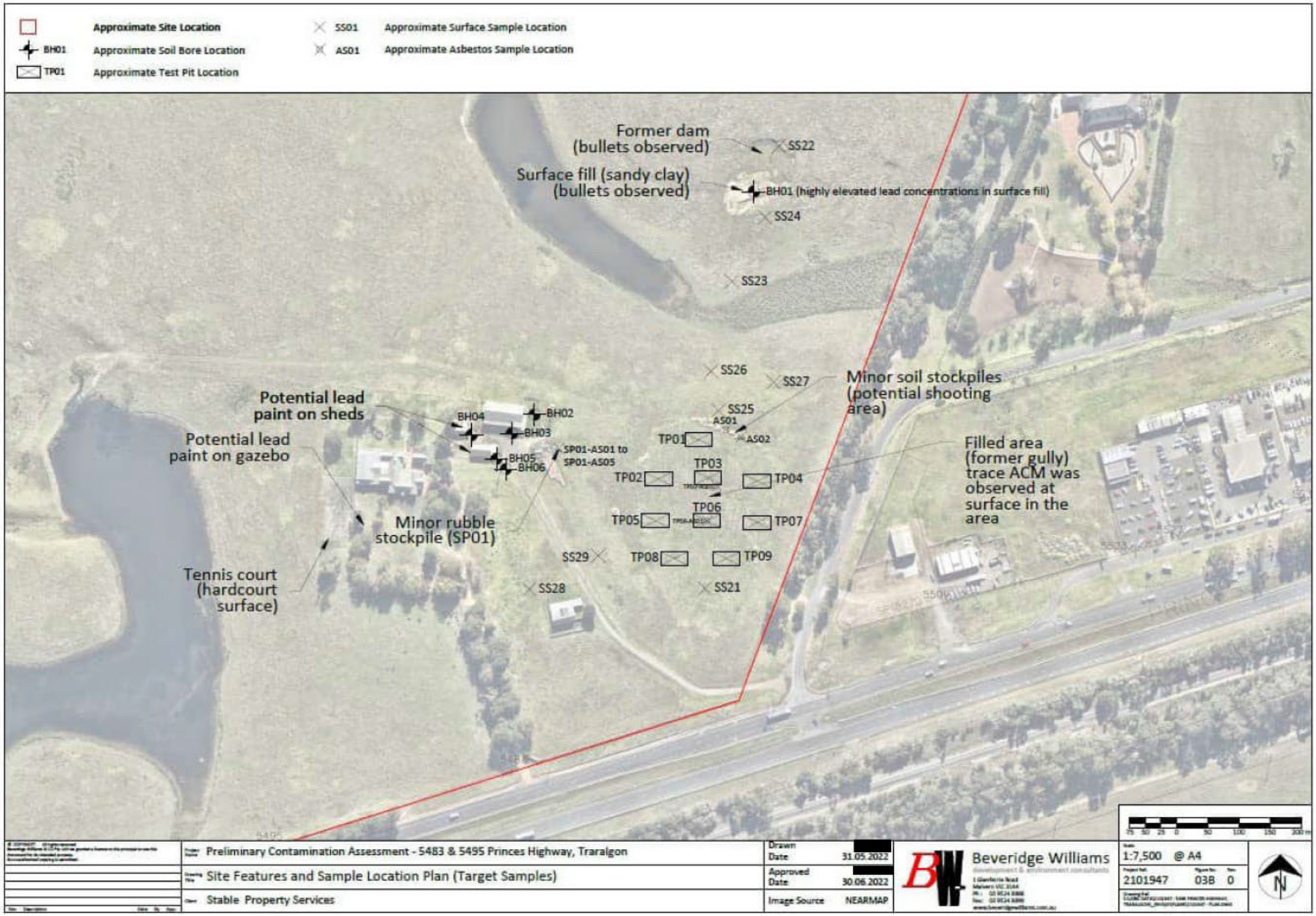


Figure 3 Targeted Surface Sample, Borehole and Test Pit Locations by Beveridge Williams

3. Site inspection

A Site inspection was undertaken by [redacted] (Auditor) on Wednesday, 20th September 2023. The purpose of the Site inspection was to confirm the visual condition of the Site with respect to Beveridge Williams findings at:

– The filled area in the southern portion of the Site (i.e. in the vicinity of the test pits)
– The filled area in the northeastern portion of the Site (i.e. in the vicinity of BH01)
– The existing homestead and other onsite buildings

The following observations were made and a photolog is included in Appendix B:

– Weather was cool, showery, and windy. Underfoot it was very wet and boggy in the drainage line above the eastern dam.
– The Site owners were present during the inspection and indicated:
  - The existing homestead and associated buildings will be removed to facilitate the proposed development
  - Farming currently comprises grazing (beef cattle and alpacas), and historically has been largely grazing
  - Soil within the filled area in south-east corner of property was sourced from construction of the Traralgon hospital
  - A WWII rifle range was present onsite within the northeast. No further details could be provided however shooting activities have anecdotally continued in that area, with bullet casings observed
  - A plane crash occurred at the Site at the top of the central dam in 2017. The plane crashed on approach to the Latrobe Regional Airport[3]. Environmental testing was reportedly undertaken for the crash Site by the insurer. A copy of the associated report was not made available to the Site owners. The Site owners were advised at the time that no residual contamination because of the crash was assessed to be present and no clean-up was required
– Within the filling area in the southeastern portion of the Site, crushed rock (approx. 10%) was observed in near surface soils, but pasture and weeds were well established so it was difficult to inspect the surface thoroughly. No asbestos containing materials were observed
– Within the filling area to the northeast, it was difficult to discern the degree to which filling may have occurred. The potential for a borrow pit or other excavation was considered likely to be required to form the stop-butt for the rifle range (stop-butt visible in 1945 aerial photographs). Numerous large caliber bullet heads were visible on the ground surface
– Some evidence of asbestos containing materials observed within Site buildings; but all roofs were noted to be corrugated iron. Painted surfaces were generally in poor condition on some of the smaller structures
– Outbuildings included garages and machinery storage, no evidence of significant storage of chemicals or fuels. Several stockpiles of building materials and broken concrete next to main shed
– A large excavator was present with stained soil was noted to be below the engine (likely diesel or hydraulic fluid)

[3] Subsequent enquiry indicated the plane crash occurred on 23 February 2017. Aerial imagery available from Nearmap dated 28 February 2017 shows the plane wreckage onsite. Relevant news article regarding the crash: **https://www.smh.com.au/national/plane-crash-lands-near-princes-highway-pilot-and-passenger-shaken-but-unharmed-20170223-gujlmo.html**

4. Preliminary conceptual site model

4.1 Potential sources of contamination

Based on the Site history and previous report review, potential sources of contamination have been identified and summarised in Table 8.

Table 8 Summary of potential sources of contamination

Source	Location	Description	Potential contaminants of interest (COI)
Onsite			
Grazing/cropping	Widespread	Site is currently and historically been used for agricultural purposes (grazing)	Heavy metals, pesticides, herbicides
Soil Stockpiles and imported fill	Eastern portion	Review of historical aerials indicate the importation and movement of fill stockpiles from 2012. Presence of asbestos containing materials (ACM)	Heavy metals, polycyclic aromatic hydrocarbons (PAH), organochlorine pesticides (OCP), total recoverable hydrocarbons (TRH), ACM
Backfilled dams	Northeast portion	Review of aerials indicated the backfilling of former dams.	
Former/current sheds/buildings	North and southeast	Former buildings and current buildings have been observed in the historical aerials and Site inspection. Likely built at a time when use of ACM was prevalent. Some buildings were observed to have galvanised metal roofs during the 2022 Site inspection.	ACM, Heavy metals
Plane crash area	Large Dam	A plane crashed onsite which may have resulted in fuel and/or oil leaks onsite. Potential for PFAS foam to have been dispersed across wreckage to mitigate potential fire risk.	TRH, PAH, metals, PFAS
Potential Shooting Areas	Southeast	Bullets were observed in the surficial soils during the 2022 Site inspection.	Heavy metals, PAH
Offsite			
Grazing/cropping	Widespread	Based on current aerial images.	Heavy metals, pesticides, herbicides
Fire Station	West of the Site	Based on google maps and Vicotria unearthed	PFAS, TRH, metals
Airport	West of the Site	Based on google maps and Vicotria unearthed	PFAS, TRH, metals
Landfill	Northwest of the Site	EPA Audit	Landfill gas, leachate

4.2 Source-pathway-receptor pathways

Initial screening or a 'Tier 1' assessment involves the comparison of Site data with generic adopted screening levels, both for human health and ecological protection. Selection of appropriate screening levels is achieved by referring to the conceptual Site model (CSM) and professional judgement.

For an exposure to occur, a complete pathway must exist between the source of contamination and the receptor. Where the exposure pathway is incomplete, there is no exposure, and hence no risk. The auditor has undertaken a qualitative assessment of risk, by completing a source-pathway-receptor (SPR) analysis for the Site. The SPR linkage definitions used for this assessment are detailed in Table 9.

Table 9 SPR linkage definitions

SPR linkage likelihood	Comment
Negligible	Indicates that a source, pathway, and receptor linkage will not form
Low	Indicates a low likelihood that the source, pathway, and receptor will form a complete linkage
Medium	Indicates that the source, pathway, and receptor may be partially or potentially complete. Represents the lowest level of risk that requires action.
High	Generally indicates strong evidence that the SPR linkage is complete, and an active risk exists at the Site. Action is typically required to mitigate the risk.

The assessment of the Source-Pathway-Receptor linkages is summarised in Table 10

Table 10 Source-Pathway-Receptor Pathways Summary

Source/Pathway	Pathways	Receptor	Likelihood of SPR link?
Grazing/cropping	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Leaching of contaminants into underlying natural soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Low – whilst testing for all COI has not been extensively undertaken, the potential for significant residual contamination in the form of pesticides and herbicides to exist because of this contamination source is low. It is likely that exposure to potential receptors can be managed through the implementation of Site-specific management plans.
Soil Stockpiles and imported fill	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Leaching of contaminants into underlying natural soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Medium – the potential for exposure to contaminants from these sources are noted, however the potential exposure risks are considered manageable in the context of the current Site use and proposed development on the basis suitable management plans are developed. It is likely that: Additional testing will be required characterise and delineate the extent of contamination from imported soils (including ACM) in the south eastern portion of the Site, Additional testing will be required to characterise and delineate contamination within the former shooting area in the north eastern portion of the Site, and Remediation and validation reporting will be required to confirm potential exposure risks are low and acceptable.
Former shooting area (referred to as a backfilled dam by Beveridge Williams)	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Leaching of contaminants into underlying natural soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	
Former sheds/buildings	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Surface Runoff of contaminants into soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Low to negligible – whilst ACM may be present within onsite buildings, these will likely be retained for use by the existing Site owners. Consideration of potential exposure risk during demolition are therefore not considered to be required for the purpose of the proposed development (and therefore this PRSA).
Potential Shooting Areas	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Leaching of contaminants into underlying natural soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Low to medium – the presence of bullet casings was noted during the Site inspection by the Auditor, including the area referred to as a backfilled dam by Beveridge Williams. The potential presence of metals contamination within shallow soils is acknowledged (location BH01); however potential exposure risks are likely to be low and manageable in the context of the current Site use and proposed development, on the basis suitable management plans are developed. Further testing may be required to delineate the extent of potential contamination associated with historical shooting activities.

Source/Pathway	Pathways	Receptor	Likelihood of SPR link?
Plane Crash Area	Dermal contact and/or ingestion of soil by human receptors Inhalation of contaminated dust Surface Runoff of contaminants into soils Vertical migration of the contaminants through the rock to the groundwater	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Low– review of photographs from relevant online news publications shows the plane wreckage on the northern face of the dam wall in the centre of the Site. Within the photographs it is evident that a wing had completely broke away from the fuselage of the aircraft. Further, within the photographs it appears as though some firefighting foam may have been dispersed over the wreckage as a mitigation measure. The potential for contamination can't be ruled out on the basis that the testing report prepared by the insurance company was not able to be reviewed by the Auditor. However, on the basis no further clean-up work was actioned by the insurer the potential for significant contamination to be present was considered low. Based on this, an auditor verification sampling event was undertaken to confirm the absence of residual contamination which may exist at the plane crash area. Refer to Section 5 for results which indicate the presence of residual contamination is likely to be low.
Offsite Fire Station	Leaching of contaminants into groundwater Surface runoff	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	Low to negligible – the fire station, airport and landfill are of sufficient distance across/down-gradient of the Site with respect to the potential for them to be present a material risk to the contamination status of the Site. Further investigations are not considered to be required to investigate potential risks associated with these offsite sources of contamination.
Offsite Airport	Leaching of contaminants into groundwater Surface runoff	Current Site users and maintenance workers Future construction workers Future residential occupants On-Site flora and fauna	
Offsite Landfill	Landfill gas migration Leachate migrating into groundwater Direct contact with potentially contaminated groundwater after extraction	Current Site users and maintenance workers Future construction workers Current/Future residential occupants	

5. Auditor verification sampling – plane crash area

5.1 Background

During the site inspection undertaken by the Auditor, anecdotal information was supplied indicating a plane crash had occurred in the central portion of the site, on the north side of the central dam. Following completion of the site inspection, GHD identified an historical newspaper article published in The Sydney Morning Herard[4]. The newspaper article confirms the plane crash occurred at the site and enables identification of the general area.

Auditor verification sampling was undertaken with respect to the anecdotal evidence supplied during the field work and the general area shown in the historical newspaper article. The plane crash area and shallow soil sampling locations are shown on Figure 5.

5.2 Methodology

5.2.1 Soil investigation methodology

The soil investigation was completed in general accordance with EPA Guidance and industry standards, along with GHD standard operating procedures. The soil investigation methodology is summarised in Table 11.

Table 11 Summary of soil field methodologies

Investigation Task	Methodology
Dates of fieldwork	16 October 2023
Soil sampling	Two soil boreholes were advanced 0.2 m below ground level (bgl) by using a shovel. Representative soil samples were generally collected at the 0.2 m depths. All soil samples were collected using a clean pair of nitrile gloves and decontaminated hand tools (where required). Rinsate blank samples were collected from the hand tools (i.e. shovel) following decontamination to assess the likelihood of cross contamination during sampling. PID readings were taken from each soil sample location for each soil sample.
Decontamination	All sampling equipment was pre-cleaned and washed between sampling locations using Liquinox detergent, tap water and deionised water.
Sample transportation and tracking	All samples were labelled with a unique identifier, collected in clean, laboratory prepared and supplied containers, placed in ice chests following collection and transported to the laboratories under GHD chain of custody (COC) documentation. Copies of COC documentation are provided in Appendix E.

5.2.2 Laboratory analysis

All primary samples collected during the sampling program were submitted to Eurofins Pty Ltd (Eurofins) for analysis in accordance with the analytical plan presented in Table 12. Secondary (triplicate) soil samples were submitted to ALS Environmental Pty Ltd (ALS). It is noted that both laboratories are accredited by NATA for the requested analytical methods.

The laboratory analytical plan was based on the findings of the preliminary conceptual site model in Section 4.1.

[4] https://www.smh.com.au/national/plane-crash-lands-near-princes-highway-pilot-and-passenger-shaken-but-unharmed-20170223-gujlmo.html

Table 12 Laboratory analytical plan

Assessment area	Sample type	Samples	Analytical schedule	
			No.	Analysis
Footprint of the historical plane crash area	Primary	BH01_0.2, BH02_0.2	3	TRH (C_6-C_{40}) BETXN PFAS Full Suite
Quality control samples	Blind and Split duplicates	FD01/FS01	2	TRH (C_6-C_{40}) BETXN PFAS Full Suite
	Trip Blank	RB01	1	TRH (C_6-C_9)

Notes:
TRH – Total Recoverable Hydrocarbons
BETXN – Benzene, Ethyl Benzene, Toluene, Xylenes, Naphthalene
PFAS – Per- and Polyfluorinated Substances

5.3 Assessment criteria

Environmental protection in Victoria is legislated under the Environment Protection Act 2017 (the Act). Subordinate legislation within the Act includes the Environment Protection Regulations 2021, which provides more detailed contamination management and reporting requirements. On the 26 May 2021, the Victorian Government also issued the Environment Reference Standard, 2021 (ERS) to assess and report on environmental conditions in the whole or any part of Victoria. The ERS sets out the environmental values of ambient air, ambient sound, land and water environments that are sought to be achieved or maintained in Victoria and standards to support those values.

5.3.1 Soil assessment criteria

Part 4 of the ERS applies to the land environment. Environmental values of the land environment are provided in Table 13.

Table 13 Environmental values of the land environment

Environmental value	Description of environmental value
Land dependent ecosystems and species	Land quality that is suitable to protect soil health and the integrity and biodiversity of natural ecosystems, modified ecosystems and highly modified ecosystems.
Human health	Land quality that is suitable for the specific land use and safe for the human use of that land.
Buildings and structures	Land quality that is not corrosive to buildings, structures, property and materials.
Aesthetics	Aesthetic issues do not adversely impact the use of land. Aesthetic issues include the quantity, type and distribution of foreign material or odours in relation to the specific land use and its sensitivity.
Production of food, flora and fibre	Land quality that is suitable for the safe human consumption of food, flora and fibre and that does not adversely affect produce quality or yield.

Land use category assessment conclusion

On the basis of the current and proposed development anticipated to be general residential and commercial. The site is therefore considered to be consistent with a sensitive use – other (lower density) and commercial land use categories. The applicable environmental values associated with this land use category are as follows:

- Land dependent ecosystems and species (Modified ecosystems to Highly modified ecosystems)
- Human health
- Buildings and structures
- Aesthetics
- Production of food, flora and fibre

5.3.1.1 Summary of adopted assessment criteria

The following criteria were adopted to assess the soil contamination status of the Site:

Table 14 Summary of adopted assessment criteria

Environmental value	Assessment criteria
Land dependent ecosystems and species	ASC NEPM Ecological Investigation Levels (EILs) for urban residential and public open space ASC NEPM Ecological Screening Levels (ESLs) for fine soils – for urban residential and public open space Site specific data was not obtained to generate site specific EILs.
Human health	ASC NEPM Health Investigation Levels (HIL A) – residential A ASC NEPM Health Screening Levels (HSL A&B) for fine soils – low – high density residential
Buildings and structures	Investigation levels are not specified. This environmental value has been assessed based site geology, site history and observations..
Aesthetics	There are no published criteria specific to assessment of aesthetic impact. General assessment considerations include: – That chemically discoloured soils or large quantities of various types of inert refuse, particularly if unsightly, may cause ongoing concern to site users; and – The depth of the materials, including chemical residues, in relation to the final surface of the site
Production of food, flora and fibre	The ERS requires that the land is protected and maintained for the production of food, flora and fibre. This has been assessed with consideration to assessment criteria adopted to assess land dependent ecosystems and species and human health.

5.4 Analytical results

There were no exceedances of the adopted ecological and human health assessment criteria.

Tabulated soil analytical results are provided in Table 1 and Table 2 of Appendix D. Copies of laboratory certificates are provided in Appendix E. Soil sampling locations are presented in Figure 5.

5.5 Data validation

The following field quality assurance/quality control (QA/QC) measures were implemented during the field sampling program:

- Soil sampling undertaken by an experienced environmental specialist
- Clean pair of nitrile gloves applied prior to collecting each soil sample
- Decontamination of reusable sampling equipment using a three-three stage wash and rinse process
  - Stage 1 – wash equipment in a solution of water and 'Liquinox' detergent (phosphate free)
  - Stage 2 – rinse equipment in clean tap water
  - Stage 3 – rinse equipment in de-ionised water
- Collection and analysis of field duplicate and triplicate samples and calculation of relative percentage differences (RPD) for comparison

– Collection and analysis of a sample trip blank
– Samples placed into pre-prepared and appropriately preserved sample jars or bottles supplied by the laboratory
– Samples preserved within ice-filled chests during the field program and transport to the laboratory under completed chain of custody documentation
– Samples submitted to a laboratory that is accredited by the National Association of Testing Authorities (NATA) for the requested analysis
– Samples submitted within the respective holding times for each contaminant of concern

The QA/QC program results are presented in Appendix F. The QA/QC parameters were within the specified requirements and therefore the data is considered to be valid and of sufficient quality to meet the objectives of this assessment.

6. PRSA discussion

6.1 Likelihood of contamination

Review of the Site history indicates the Site has predominantly been used for rural residential and agricultural activities since the 1940's. The following potentially contaminating activities have occurred at the Site:

- Grazing/cropping
- Stockpiling and importation of uncontrolled fill soils
- Construction of and backfilling of dams
- Shooting/rifle range activities
- Plane crash

Previous investigations by Beveridge Williams in 2022 generally addressed most of the identified onsite sources of contamination, except for the plane crash area, noting that the selection rationale for some analysis is unclear. The findings of Beveridge Williams 2022 investigations indicate the presence of elevated heavy metals associate with fill material in the homestead area and southeast portion of the Site. Asbestos containing material was also identified in the fill material within the southeast portion of the Site. The potential for low to medium SPR-linkages to exist is noted based on the preliminary CSM prepared by the environmental auditor. The presence of contaminated land with respect to the proposed land use therefore can't be ruled out.

Results of auditor verification sampling of the plane crash area suggests that there is no residual contamination within the area resulting from the plane crash in 2017. Further investigation is not considered to be required to assess the potential risk associated with residual contamination at the plane crash area.

6.2 Assessment of possible impacts on environmental values

A PRSA is conducted to assess the likelihood of the presence of contaminated land and determine whether an environmental audit is required for the use or proposed use. In doing this, EPA expects (as outlined in *EPA Publication 2021: Guideline for Conducting Preliminary Risk Screen Assessments*) that the Auditor considers the environmental values for the elements of the environment being assessed.

The following sections consider the likelihood of contaminated land to be present in the context of the relevant environmental values:

6.2.1 Land

Table 15 Potential impacts on applicable Environmental Values of Land

Environmental Value	Comment
Land Dependant Ecosystems and Species (modified and highly modified ecosystems)	The Auditor considers that in the context of the environmental value *Land Dependant Ecosystems and Species (modified to highly modified)* that the Site is likely to be contaminated land. This is based on: – The zinc concentrations in shallow soil samples collected from location BH05 has the potential to impact zinc-sensitive vegetation. Further investigation is required to investigate and delineate zinc contamination
Human Health	The Auditor considers that in the context of the environmental value *Human Health* that the Site is likely to be contaminated land. This is based on: – The lead concentration in shallow soil samples collected from location BH01 is unacceptable for residential use and will require delineation and potentially remediation. While there was only one exceedance, the Site history and the presence of bullet casings suggests further investigation is warranted

Environmental Value	Comment
	– The presence of ACM within waste soils deposited in southeastern portion of the Site, in the vicinity of the test pits. Further investigation is required to delineate the presence of historical fill and characterise the contamination status of the soil. It is noted that the presence of waste in the subsurface also fits the definition of Contaminated Land under the Environment Protection Act 2017
Buildings and structures	The Auditor considers that in the context of the environmental value *Buildings and Structures*, the Site is unlikely to be contaminated land. Notwithstanding, future investigations are to confirm land quality is not corrosive to buildings, structures, property, and materials through completion of an appropriate analytical schedule.
Aesthetics	The Auditor considers that in the context of the environmental value *Aesthetics* that the Site is likely to be contaminated land due to the presence of ACM and other inert wastes observable in shallow soils which is unacceptable for a low-density residential land use.
Production of Food, Flora, and Fibre	The Auditor considers that in the context of the environmental value Production of Food, Flora and Fibre, the Site is unlikely to be contaminated land. Future investigations

6.2.2 Groundwater

The Auditor understands groundwater investigations have not been carried out at the Site for contamination assessment purposes. The Auditor notes the potential sources of contamination identified at the Site largely relate to shallow soil impacts and there is no evidence of bulk storage of fuels or chemicals that may be considered a primary source of groundwater impact, noting the likely depth of groundwater exceeds 10 metres below ground level. The potential risk and therefore impacts to one or more environmental values of groundwater as a result of the identified soil contamination is currently considered to be low. As a result, and in the context of the proposed use of the Site, relevant environmental values of groundwater and associated exposure pathways, the Auditor does not consider that groundwater would restrict of preclude the proposed use of the Site.

It is considered reasonable that the potential for groundwater impacts be reviewed when undertaking further Site investigations, and should the need arise that groundwater investigations be undertaken to characterise the nature and extent of any potential groundwater contamination.

6.2.3 Surface water

Boyd Creek flows through the centre of the Site in the north-south alignment. Another drainage channel exists within the north east portion of the Site. It is currently unknown if these surface water features are a point of discharge for groundwater. Potential impacts to environmental values of Boyd Creek should be considered with respect to future Site investigations. It is noted however, that no evidence was identified to suggest the site is a source of surface water contamination to the extent that any surface water contamination could be distinguished from broader catchment impacts (i.e., any surface water contamination could be attributed to other sources, such as highway run off).

7. PRSA conclusion

This PRSA is based on Site history and soil investigation work completed by Beveridge Williams (Appendix B) and anecdotal information collected by the Auditor during the Site inspection. The findings of the PRSA indicate that contaminated land is likely to be present at the Site, primarily due to the presence of metals contamination and ACM within shallow fill soils.

This finding is in line with the definition of contaminated land in the EP Act (Section 35(1)(b)), i.e., that a waste, chemical substance, or prescribed substance is present at a concentration above background levels and creates a risk of harm to human health or the environment.

As a result, further investigation is required to characterise risk of these impacts to the proposed use of the Site. The Auditor concludes that an Environmental Audit (conducted in accordance with Section 208 of the EP Act 2017) is required for the portion of the Site defined in Figure 4 for the following proposed uses of the Site, as outlined in the PRSA statement in Appendix A:

– Sensitive use, Other (lower density)
– Commercial

Additionally, it is recommended that auditor verification sampling be undertaken at the Site of the 2017 plane crash to determine if residual hydrocarbon and PFAS contamination are present.

7.1 Proposed scope of environmental audit

The PRSA finds that a portion of the Site requires an environmental audit for the area shown on Figure 4:

– The PRSA statement (Appendix A) will explain the auditor's conclusion that the Site requires an environmental audit, and will outline the proposed scope of the environmental audit
– The PRSA statement and report will be submitted to the Authority for review
– EPA may review the scope and endorse the scope or suggest a revised scope

8. References

Beveridge Williams & Co Pty Ltd (2022) Preliminary Contamination Assessment 5483 & 5495 Princes Highway, Traralgon, Version 0, July 2022.

Department of Environment, Land, Water and Planning (DELWP) (2021) Planning Practice Note 30: Potentially Contaminated Land (PPN30)

EPA Victoria (2022) Environmental Auditor Guidelines – Provision of statements and reports for environmental audits and preliminary risk screen assessments (EPA Publication 2022), August 2021.

EPA Victoria (2022) Guidelines for conducting preliminary risk screen assessments (EPA Publication 2021), February 2022

Heads of EPAs Australia and New Zealand (HEPA) (2020), PFAS National Environment Management Plan (NEMP) 2.0, January 2020.

National Environment Protection Council (1999), National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1), National Environment Protection Council, April 2013

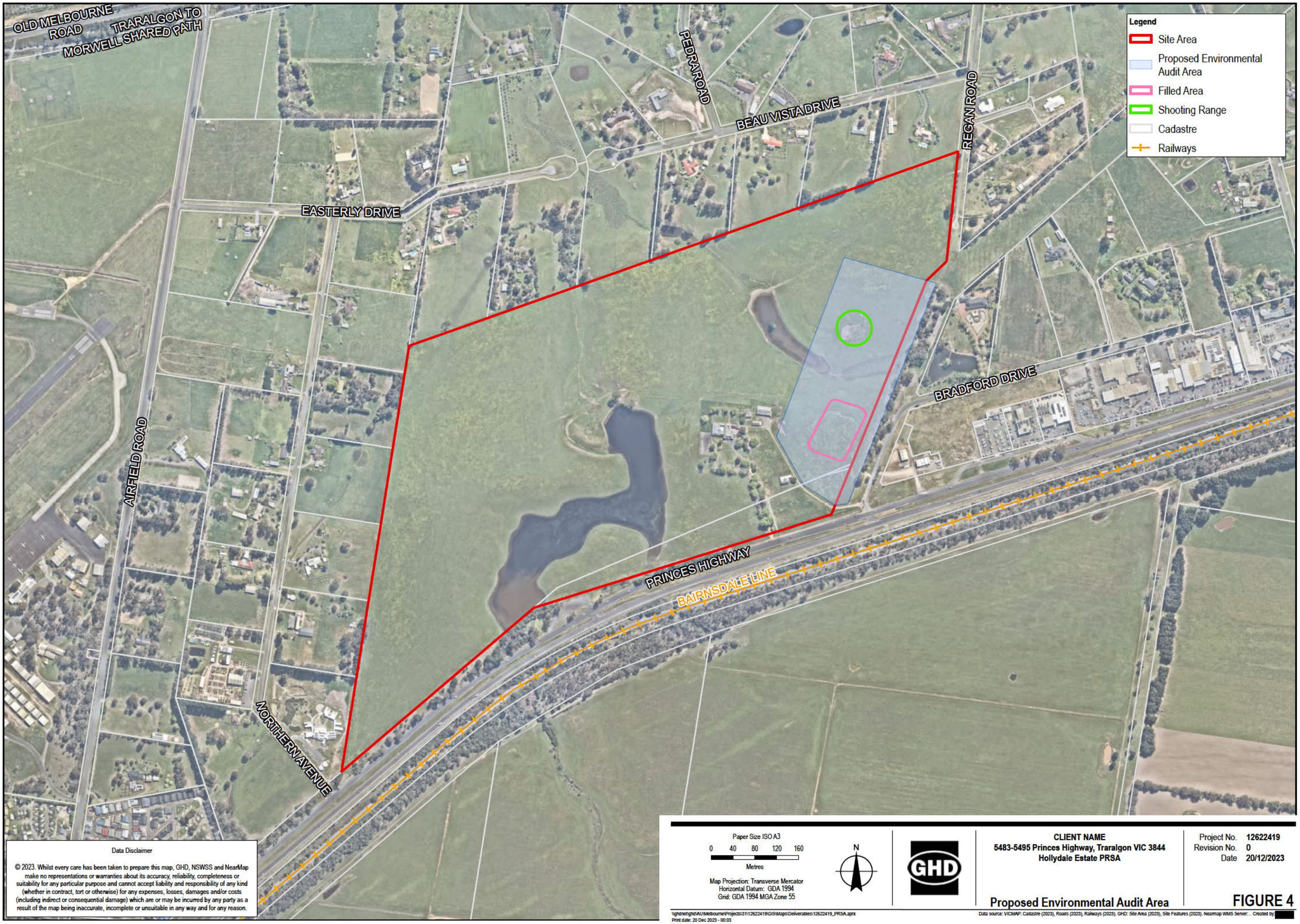
Standards Australia (2005), Guide to the investigation and sampling of sites with potentially contaminated soil - Part 1: Non-volatile and semi-volatile compounds, AS 4482.1–2005

Standards Australia (1999), Australian Standard: Guide to the Sampling and Investigation of Potentially Contaminated Soil. Part 2: Volatile Substances, AS 4482.2-1999

Victorian Government (2017) Environment Protection Act 2017

Victorian Government (2021) Environmental Reference Standards

Figures



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Paper Size ISO A3

0 40 80 120 160

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55

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GHD

CLIENT NAME
5483-5495 Princes Highway, Traralgon VIC 3844
Hollydale Estate PRSA

Project No. **12622419**
Revision No. **0**
Date **20/12/2023**

Proposed Environmental Audit Area

FIGURE 4

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Print date: 20 Dec 2023 - 00:03

Data source: VICMAP: Cadastre (2023), Roads (2023), Railways (2023). GHD: Site Area (2023), Site Features (2023). Nearmap WMS Server: . Created by: [redacted]

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Paper Size ISO A3

0 10 20 30 40

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55

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GHD

CLIENT NAME
5483-5495 Princes Highway, Traralgon VIC 3844
Hollydale Estate PRSA

Auditors Verification Sampling – Plane Crash Area

Project No. **12622419**
Revision No. **0**
Date **20/12/2023**

FIGURE 5

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Print date: 20 Dec 2023 - 00:03

Data source: VICMAP: Cadastre (2023), Roads (2023), Railways (2023). GHD: Site Area (2023), Site Features (2023). Nearmap WMS Server: . Created by: [redacted]

Appendices

Appendix A

PRSA Statement

Preliminary risk screen assessment statement

Under Part 8.3 of the Environment Protection Act 2017

Publication F1031.3 published October 2023

The purpose of a preliminary risk screen assessment is:

(a) to assess the likelihood of the presence of contaminated land; and

(b) to determine if an environmental audit is required; and

(c) if an environmental audit is required, to recommend a scope for the environmental audit.

It is important to note that a PRSA is not an environmental audit statement or an environmental audit report. It should not be misconstrued as an environmental audit conducted to assess the suitability of a site for a proposed land use, or as a statement by the auditor on the extent of contamination, if present.

Further details are provided in the preliminary risk screen assessment report that accompanies this statement.

Section 1: Preliminary risk screen assessment overview

Environmental auditor details

Name:	[redacted]
Company:	GHD Pty Ltd
Address:	Level 9, 180 Lonsdale Street, Melbourne
Phone:	03 8687 8000
Email:	[redacted]

Site owner or occupant

Name:	[redacted]
Company:	[redacted]

Environmental auditor engaged by

Name:	Dale Harriman
Company:	Stable Property Group Pty Ltd
Relationship to site owner:	Employee

Reason for preliminary risk screen assessment:

Planning scheme:	Latrobe Proposed Planning Scheme Amendment: DFP220
Permit details (if applicable):	

Other:	
☒ Permit is attached (if applicable):	Planning Scheme Amendment is attached

Section 2: Assessment scope

Site details:

Address:	5483-5495 Princess Highway Traralgon
Title details:	Lot 1TP823034, Lot 1TP954239
Area (m^2):	580,000 m2

☒ a plan of the site is attached

Use or proposed use assessed:

The below section details which land uses (current and proposed) the PRSA has assessed.

Land use categories

Note that sensitive land uses in the *Environment Reference Standard 2021* (ERS 2021) are categorised as lower and high density. Lower density is where there is generally substantial access to soil and high density is restricted to developments that make maximum use of available land space , and there is minimal access to soil. For planning purposes , children's playgrounds and secondary schools also trigger *Ministerial Direction No. 1* (MD No.1) and are therefore consider ed similarly to sensitive land uses.

Sensitive:

☐ High density :

☒ Other (lower density) :

- ☒ Residential land use
- ☐ Child care centre
- ☐ Pre-school
- ☐ Primary school
- ☐ Secondary school

☐ Children's playground (indoor)

☐ Children's playground (outdoor)

Other :

- ☐ Recreation/open space
- ☐ Parks and reserves
- ☐ Agricultural
- ☒ Commercial
- ☐ Industrial
- ☐ Other land uses not captured by the above as described here:

Environmental elements assessed:

☒ Land
☒ all environmental values that apply to the land use category were considered **OR**
☐ all environmental values that apply to the land use category, other than the following, were considered:

☐ Water
Surface water
☐ all environmental values that apply to the applicable segment were considered **OR**
☐ all environmental values that apply to the applicable segment, other than the following, were considered:

Groundwater
☐ all environmental values that apply to the applicable segment were considered **OR**
☐ all environmental values that apply to the applicable segment, other than the following, were considered:

Standards considered:

Environment Reference Standard 2021
National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended from time to time

- Environment Protection Act 2017
- Environment Protection Regulation 2021
- Environment Reference Standard 2021
- Environmental Auditor Guidelines – Provision of statements and reports for environmental audits and preliminary risk screen assessments (EPA Publication 2022), August 2021.
- Guidelines for conducting preliminary risk screen assessments (EPA Publication 2021), February 2022
- National Environment Protection Council, 1999. National Environment Protection (Assessment of Site Contamination) Measure (as amended 2013)
- Standards Australia, 2005, AS 4482.1-2005, Australian Standard: Guide to the Investigation and Sampling of Potentially Contaminated Soil. Part 1: Non-volatile and Semi-volatile Compounds
- Standards Australia, 1999, AS 4482.2-1999, Australian Standard: Guide to the Sampling and Investigation of Potentially Contaminated Soil. Part 2: Volatile Substances.

Assumptions made during the assessment or any limitations :

The Berveridge Williams & Co Pty Ltd (Beveridge Williams) Preliminary Contamination Assessment Report provided in Appendix B of the PRSA has been referenced for information only with respect to the purpose of the PRSA. The following general limitations are noted with respect to the Beveridge Williams report:

Soil investigation depths across the broader Site were limited to shallow soils only. Assessing the distribution and thickness of fill soil at the Site is therefore limited.

The analytical schedule implemented during the soil sampling program was generally limited and the rationale regarding the selection of analytes at various sampling locations is unclear (i.e., a sample

analysis quality plan was not attached to the Beveridge Williams report). No soil analysis for PFAS was conducted.

No groundwater or surface water investigation and analysis was included as part of the preliminary contamination assessment.

Exclusions from the assessment and the rationale for these:

Surface water and groundwater were excluded. It is considered that the sources of soil contamination did not represent a hazard to groundwater or surface water due to the assumed depth to groundwater below those portions of the site, and the limited mobility of those contaminants of concern. As such no groundwater or surface water investigations were considered necessary.

This statement is accompanied by the following preliminary risk screen assessment report:

Title:	Preliminary Risk Screen Assessment, 5483-5495 Princess Hwy Traralgon
Report no:	12622419-RPT-PRSA_Rev0
Date:	20/12/2023

Section 3: Assessment outcome

☒ **Environmental Audit Required** ☐ **Environmental Audit Not Required**

Based on my assessment, I am of the opinion that an environmental audit is **required** *OR* **not required** for the following land uses, **including** the use or proposed use for which the site has been assessed.

Land use categories

Note that sensitive land uses in the ERS 2021 are categorised as lower and high density. Lower density is where there is generally substantial access to soil and high density is restricted to developments that make maximum use of available land space , and there is minimal access to soil. For planning purposes , children's playgrounds and secondary schools also trigger *Ministerial Direction No. 1* (MD No.1) and are therefore consider ed similarly to sensitive land uses .

Sensitive :

☐ High density: ☒ Other (lower density):

- ☒ Residential land use
- ☐ Child care centre
- ☐ Pre-school
- ☐ Primary school
- ☐ Secondary school

☐ Children's playground (indoor)

☐ Children's playground (outdoor)

Other:

- ☐ Recreation/open space
- ☐ Parks and reserves
- ☐ Agricultural
- ☒ Commercial
- ☐ Industrial
- ☐ Other land uses not captured by the above as described here:

Reason for environmental audit:

The identification of a substantial area of filled ground in the southeastern portion of the property, and the presence of a former shooting range in the northeastern section of the property suggests the presence of soil contamination that may preclude the intended low density residential use of the land.

Proposed scope of environmental audit

Site to be audited:	
Site/premises name	Hollydale Estate
Address	5483-5495 Princess Highway Traralgon
Title details	Portion of Lot 1TP823034, Lot 1TP954239 defined within PRSA Report
Area (m^2)	Portion of 580,000 m2
Use or proposed use of the site to be audited:	**Sensitive use s:** ☐ High density: ☒ Other (lower density): ☒ Residential land use ☐ Child care centre ☐ Pre-school ☐ Primary school ☐ Secondary school ☐ Children's playground (indoor) ☐ Children's playground (outdoor) **Other uses:** ☐ Recreation/open space ☐ Parks and reserves ☐ Agricultural ☒ Commercial ☐ Industrial ☐ Other land uses not captured by the above as described here (if applicable):
Elements of the environment to be assessed in the environmental audit:	☒ Land ☒ all environmental values that apply to the land use category to be considered **OR** ☐ all environmental values that apply to the land use category, other than the following, to be considered:
	☐ Water Surface water ☐ all environmental values that apply to the segment to be considered **OR** ☐ all environmental values that apply to the segment, other than the following, to be considered: Groundwater ☐ all environmental values that apply to the segment to be considered **OR** ☐ all environmental values that apply to the segment, other than the following, to be considered:

Standards and reference documents to be considered:	Environment Protection Act 2017 Environment Protection Regulation 2021 Environment Reference Standard 2021 Environmental Auditor Guidelines – Provision of statements and reports for environmental audits and preliminary risk screen assessments (EPA Publication 2022), August 2021. Guidelines for conducting preliminary risk screen assessments (EPA Publication 2021), February 2022 National Environment Protection Council, 1999. National Environment Protection (Assessment of Site Contamination) Measure (as amended 2013) Standards Australia, 2005, AS 4482.1-2005, Australian Standard: Guide to the Investigation and Sampling of Potentially Contaminated Soil. Part 1: Non-volatile and Semi-volatile Compounds Standards Australia, 1999, AS 4482.2-1999, Australian Standard: Guide to the Sampling and Investigation of Potentially Contaminated Soil. Part 2: Volatile Substances.
Exclusions from the environmental audit and rationale for these:	The key concern relating to the filled area is the potential presence of ACM, and there is evidence of lead impacts in the vicinity of the assumed shooting range stop-butt. It is considered that neither of these sources of soil contamination represent hazard to groundwater or surface water due to the assumed depth to groundwater below those portions of the site, and the limited mobility of those contaminants of concern. As such no groundwater or surface water investigations are considered necessary.
Assumptions made or limitations on the environmental audit:	That only the portion of the land defined within the PRSA report is required to be audited. Available data within the balance of the land as assessed by Beveridge Williams and based on results of auditor verification sampling of the place crash area indicate a low potential for contamination to preclude development for a sensitive use.

Note: An assessment that an environmental audit is not required does not include any comment on as to whether responsibilities under section 39 of the *Environment Protection Act 2017* (duty to manage contaminated land) exist for the person in management or control of the land. Please refer to EPA publication 1977, *Assessing and controlling contaminated land risks: A guide to meeting the duty to manage for those in management or control of land* (https://www.epa.vic.gov.au/about-epa/publications/1977).

Section 4: Environmental auditor's declaration

I state that:

- I am appointed as an environmental auditor by the Environment Protection Authority Victoria under the *Environment Protection Act 2017* .
- The findings contained in this statement represents a true and accurate summary of the findings of the preliminary risk screen assessment that I have completed.

Date: 20/12/2023

Signed : [redacted]

Name: [redacted]

Environmental Auditor

[redacted]

For languages other than English, please call **131450**.
Visit **epa.vic.gov.au/language -help** for next steps.
If you need assistance because of a hearing or speech impairment, please visit **relayservice.gov.au**

29 September 2022

[redacted]
Manager, Development Facilitation Program
Department of Environment, Land, Water and Planning
8 Nicholson Street
East Melbourne VIC 3002

Our Ref: REQ002456

RE: LATROBE PROPOSED PLANNING SCHEME AMENDMENT: DFP220 – HOLLYDALE ESTATE 5483-5495 PRINCES HIGHWAY TRARALGON

Thank you for the opportunity to provide advice in relation to the proposed planning scheme amendment (the Amendment), referred to EPA via email dated 7 September 2022.

EPA has reviewed the following documents of relevance:

- Referral letter to EPA dated 7 September 2022;
- Amendment Cover Letter dated 12 August 2022;
- Appendix A: Amended Town Planning Report dated 12 August 2022, prepared by Beveridge Williams;
- Appendix E: Indicative Development Plan, prepared by Beveridge Williams;
- Appendix F: Draft Explanatory Report;
- Appendix K: Desktop Contamination Assessment dated 30 June 2022, prepared by Beveridge Williams;
- Appendix L: Preliminary Contamination Assessment dated 13 July 2022, prepared by Beveridge Williams;
- Appendix N: Proposed Zoning Plan; and
- Draft Development Plan Overlay – Schedule 10 (DPO10).

Ministerial Direction 19 (MD19)

The recognition of the preventative value of EPA's early involvement in strategic land use planning is reflected in Ministerial Direction 19 (MD19), which requires planning authorities to seek early advice from EPA when undertaking strategic planning processes that may significantly impact Victoria's environment, amenity and/or human health due to pollution and waste.

EPA's consideration and advice on relevant planning matters is intended to support decisions made by planning authorities in the early stages of the planning process.

It is in this context that EPA provides the comments below.

Our Understanding of the Proposal

EPA understand that the proposed Amendment seeks to rezone approximately 58.131ha of land at 5483-5495 Princes Highway, Traralgon (the Site) from Farming Zone (FZ) to the Commercial 1 Zone (C1Z) and the General Residential Zone – Schedule 3 (GRZ3). The Amendment also seeks to apply DPO10 to the Site.

Preliminary Contamination Assessment

EPA has not undertaken a detailed technical review of the Preliminary Contamination Assessment (the Assessment); however, we highlight the following information and key findings:

Key findings and conclusions

- The Assessment included a desktop site history evaluation and site inspection.
- Site history is provided from 1945 onwards.
- The Assessment identified grazing/cropping, soil stockpiles/fill material and potential shooting areas as having occurred on the Site.
- The Assessment concludes that the majority of the Site is considered to be of low risk and does not constitute potentially contaminated land. However, additional targeted investigations are recommended to be undertaken around the reported lead, zinc and trace asbestos fragments at surface in the southeast portion.

Observations

- Whilst the completion of a Preliminary Contamination Assessment for this situation is not considered consistent with guidance and policy, the assessment undertaken to date has identified which areas in the precinct are or are not potentially contaminated.
- 'Stockpiles of imported fill' are included in Planning Practice Note 30 – *Potentially Contaminated Land* (DELWP, 2021) (PPN30) as a land use that carries a 'medium' potential for contamination. It appears that 'soil stockpiles'/'fill material' identified at the southeast portion of the Site constitutes this activity.
- PPN30 identifies that consideration should also be given to the potential for specific contaminating activities occurring over time for agricultural land, including commercial use of pesticides (including herbicides, fungicides etc), biosolids application to land and farm waste disposal. These activities also carry a 'medium' potential for contamination.
- 'Shooting or gun clubs' are included in PPN30 as a land use that carries a 'high' potential for contamination. It is unclear whether 'shooting areas' identified at the Site constitutes this land use.
- Where there is a 'medium' risk for contamination, and a sensitive land use may be established on the land, PPN30 recommends a Preliminary Risk Screen Assessment, or the environmental audit option applies.
- Prior to 1945, there may have been potentially contaminating activities occurring on the Site, however site history before this date is not provided.

Recommendations

- To meet the requirements of Ministerial Direction 1 (MD1), the planning authority must satisfy itself that the land is either potentially contaminated or not. If the land is potentially contaminated, PPN30 sets out the recommended level of assessment for land which has been determined to have a 'medium' or 'high' potential for contamination.
- As the assessment concludes that the majority of the Site is of a low risk and therefore does not constitute potentially contaminated land, but also concludes that further assessment is required in some areas of the site, this suggests that there is the potential for contamination. Clarification should be sought from the author of the Assessment as to whether the Site is either potentially contaminated or not, noting the requirements to satisfy MD1. This should also include clarification as to whether the identified historical/former use/activities carried out at the Site constitute any of the following, in accordance with PPN30:
    - Stockpiles of imported fill;
    - Agriculture of animal production; or

- Shooting or gun club.

Should the land be determined as not being potentially contaminated, the Assessment should be updated to confirm this, including that no further assessment is required.

Should the land be identified as having a 'medium' or 'high' potential for contamination, PPN30 outlines that meeting a PRSA requirement prior to amendment is preferred. Prompt assessment may avoid unnecessary encumbrances on the land, where the PRSA concludes no environmental audit is required for the range of uses allowed by the amendment. The outcomes of a PRSA can also assist a planning authority in determining appropriate planning controls to be included in the Amendment.

MD1 also supports the deferral of meeting PRSA or audit requirements via application of the Environmental Audit Overlay (EAO) where it is considered difficult or inappropriate to meet those requirements prior to amendment. PPN30 provides further advice on what is considered difficult or inappropriate.

If the land is determined to be potentially contaminated, it is recommended that the planning authority should either:

- Consider meeting the environmental audit system requirements (PRSA or audit) prior to the progression of the Amendment; or
- Determine that it is difficult or inappropriate to meet the environmental audit system requirements at the amendment stage and defer this requirement via the application of the EAO.

Noise and vibration

It is noted that the Site is adjacent or within proximity to the following noise sources:

- Princes Highway (zoned Transport Zone 2, TRZ2) abuts the Site to the south.
- The Bairnsdale Railway Line (zoned Transport Zone 1, TRZ1) located approximately 70m to the south of the Site.
- Latrobe Valley Airport, located approximately 500m west of the Site.

It does not appear that there has been consideration of the potential impacts to future sensitive uses from the existing noise sources.

Under the new *Environment Protection Act 2017* (EP Act 2017), the General Environmental Duty (GED) requires all Victorians to understand and minimise their risk of harm to human health and the environment from pollution and waste, including noise. The definition of noise includes sound and vibration. Developing land that will include noise sensitive uses near existing sources of noise may be regarded as an activity that may give rise to risks of harm to human health from pollution.

As a person engaging in that activity, a developer may be required, under the GED, to minimise those risk of harm so far as reasonably practicable.

The Environment Reference Standard (ERS) also came into effect with the commencement of the EP Act 2017. Part 3 of the ERS for Ambient Sound includes a table with indicators and objectives for the ambient (outdoor) acoustic environment, which differ across land use categories. Not meeting the objectives indicates an increased risk to the environmental values. However, the ERS must not be used as a proxy for attaining compliance with the GED.

The ERS is relevant for activities that are not directly regulated but may interact with the ambient sound environment, as is the case for traffic noise. In this context, consideration of the ERS – Ambient Sound is relevant when assessing strategic planning proposals where noise is identified as a relevant risk and can provide a framework to inform noise abatement strategies.

Strategic planning has the effect of facilitating the future establishment of land use and development that may interact with the ambient sound environment, however, until established are not directly regulated by the noise limits set by the Environment Protection Regulations (which also came into effect 1 July 2021).

The ERS – Ambient Sound can be used to assess whether a proposal poses a risk to human health and the environment from noise. This may include consideration of whether:

- the proposal would change the sound of the ambient environment;
- sounds emitted from a proposed land use would adversely affect or pose a risk to the environmental values; and
- the environmental values of the proposed land use may be adversely affected by sounds emitted from surrounding land uses.

In addition, EPA highlights the following policy in the updated Victoria Planning Provisions, relevant to noise:

13.05-1S Noise abatement

- Aims to control the effects of noise on sensitive land uses using building design, urban design and land use separation.
- Requires consideration as to whether proposals to use or develop land address the potential impacts of land use and development on the acoustic environment in accordance with the noise requirements of the Environment Protection Regulations.
- Requires consideration as to whether proposals for use and/or development will contribute to achieving or maintaining the environmental values, indicators and objectives of the acoustic environment (e.g., Sleep, child learning and development).

The planning authority should take steps to understand how the existing noise environment may impact on future noise sensitive uses. Where there is potential for noise impacts, there should be a requirement included in the planning controls triggering an assessment of noise impacts on future sensitive uses that are in proximity to Princes Highway, Bairnsdale Railway Line and the Latrobe Valley Airport. This may be addressed by the inclusion of an acoustic assessment report as a requirement for the Development Plan.

We provide the following recommended wording below:

"An Acoustic Assessment Report prepared by a qualified acoustic engineer or other suitably skilled person to the satisfaction of the responsible authority which:

- *Identifies lots that would be impacted by the existing noise sources, and where mitigation measures are required;*
- Applies the following noise objectives:
  - 35 dB LAeq,8h when measured within a sleeping area between 10 pm and 6 am.
  - 40 dB LAeq,16h when measured within a living area between 6 am and 10 pm.
- *For areas other than sleeping and living areas, the median value of the range of recommended design sound levels of Australian Standard AS/NZ 2107:2016 (Acoustics – Recommended design sound level and reverberation times for building interiors).*

- *Includes recommendations for any noise attenuation measures required to meet the applicable noise level objectives.*
- *Includes additional considerations, where relevant, to address:*
  - potential noise character (tonality, impulsiveness or intermittency);
  - noise with high energy in the low frequency range; and
  - transient or variable noise.

Where the Acoustic Assessment Report recommends any noise attenuation measures, this would be reflected in the Development Plan.

In addition, the planning authority should be aware that EPA do not generally regulate aircraft noise. The EP Act 2017 has limited application to airports and airfields as responsibility primarily sits with the Commonwealth Government.

However, both the GED (s25 of the EP Act 2017) and unreasonable noise (s.166 of the EP Act 2017), including unreasonable noise prescribed in the Environment Protection Regulations 2021, apply to aircraft maintenance activities at non-Commonwealth airports.

Other matters

EPA notes that the draft Explanatory Report does not include reference to MD1 or MD19 and should be updated accordingly.

Summary and recommendations

The recommendations outlined in this letter can be summarised as follows:

1. Clarification should be sought regarding the findings from the Preliminary Contamination Assessment and whether the land is potentially contaminated or not, having regard to MD1 and PPN30; and
2. Should it be identified that there is the potential for existing noise sources to impact the amenity of future sensitive uses, an assessment of the potential impacts of noise and vibration arising from the Princes Highway, the Bairnsdale Railway Line and the Latrobe Valley Airport should be undertaken as per the advice provided above.

Closing

We would be happy to engage in further discussions regarding the above comments to ensure that EPA supports this planning process effectively. If our assessment is not aligned with your view of the environmental risk, please contact Sibel Ali on 1300 EPA VIC (1300 372 842), or at stratplan@epa.vic.gov.au.

Yours sincerely,

Senior Planning Advisor
Development Advisory Unit
Environment Protection Authority Victoria

Figure 1 Site Location and boundary (taken from Beveridge Williams report provided in Appendix B)

Appendix B

Beveridge Williams 2022 Preliminary Contamination Assessment Report

Preliminary Contamination Assessment

5483 & 5495 Princes Highway, Traralgon

Client

Stable Property Services

Issued

13/07/2022

Melbourne Office

1 Glenferrie Road

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Malvern VIC 3144

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Beveridge Williams

Client:	Stable Property Services
Issued:	13/07/2022
Version:	0
Prepared by:	[redacted]
Checked by:	[redacted]
Project Manager:	[redacted]
Project Number:	2101947

Surveying
Asset Recording
Civil Engineering
Infrastructure Engineering
Traffic & Transport Engineering
Environmental Consulting
Water Resource Engineering
Strata Certification (NSW)
Town Planning
Urban Design
Landscape Architecture
Project Management

Revision Table

REV	DESCRIPTION	DATE	AUTHORISED
0	Preliminary Contamination Assessment	13/07/2022	[redacted]

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List of Abbreviations and Units

ACM	Asbestos Containing Material	**PSH**	Phase Separated Hydrocarbons
ANZECC	Australia and New Zealand Environment and Conservation Council	**QA/QC**	Quality Assurance/Quality Control
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand	**RL**	Reduced Level
AST	Above-ground Storage Tank	**RPD**	Relative Percentage Difference
BaP	Benzo(a)pyrene	**SEPP**	State Environment Protection Policy
BTEX	Benzene, Toluene, Ethyl benzene & Xylene	**SVOC**	Semi Volatile Organic Compounds
CHC	Chlorinated hydrocarbons	**SWL**	Standing Water Level
COC	Chain of Custody	**TDS**	Total Dissolved Solids
CUTEP	Clean Up to the Extent Practicable	**TEQ**	Toxicity Equivalent Quotient
DNAPL	Dense Non-Aqueous Phase Liquid	**TPH**	Total Petroleum Hydrocarbons
DO	Dissolved Oxygen	**TRH**	Total Recoverable Hydrocarbons
EC	Electrical Conductivity	**UST**	Underground Storage Tank
EIL	Environmental Investigation Level	**VOC**	Volatile Organic Compounds
EPA	Victorian Environmental Protection Authority	**VVG**	Visualising Victoria's Groundwater
GWDB	Groundwater Data Base	**-**	On tables is no data
HIL	Health Investigation Level		
HM	Heavy Metal		
HVO	Halogenated Volatile Organics	**Units**	
LNAPL	Light Non-Aqueous Phase Liquid	**µg/kg**	micrograms per kilogram (ppb)
LOR	Limit of Reporting	**µg/L**	micrograms per litre
MAH	Monocyclic Aromatic Hydrocarbons	**µs/cm**	microseimens per centimetre
NATA	National Association of Testing Authorities	**mg/kg**	milligrams per kilogram (ppm)
ND	Non Detect	**mg/L**	milligrams per litre
NEPM	National Environmental Protection Measure	**mBGL**	Metres below ground level
NHMRC	National Health and Medical Research Council	**mTOC**	Metres below top of casing
NAPL	Non-Aqueous Phase Liquid	**mAHD**	Metres Australian Height Datum
OCP	Organochlorine Pesticides	**ppb**	parts per billion
OPP	Organophosphate Pesticides	**ppm**	parts per million
PAH	Polycyclic Aromatic Hydrocarbons	**Ha**	Hectare
PCB	Polychlorinated biphenyl		
PID	Photo-ionisation detector		

1 INTRODUCTION

At the request of Stable Property Services, Beveridge Williams & Co P/L (Beveridge Williams) conducted a Preliminary Contamination Assessment of 5483 & 5495 Princes Highway, Traralgon (referred to as "the site" in this report). The purpose of the Preliminary Contamination Assessment was to confirm the contamination status of the site, identify if the site contains any significant contamination from past site uses which may restrict development of the site as low-density residential.

2 SITE DETAILS

Site details are presented in Table 2-1.

Table 2-1: Summary of Site Details

ITEM		SITE DETAILS	REFER TO
Site Address		5483 & 5495 Princes Highway, Traralgon	Figure 1
Approx. Site Area (ha)		58	
Zoning		Farming Zone – Schedule 1 (FZ)	Appendix A
Municipality		City of Latrobe	
Current Use		Farming (grazing)	Figure 1
Historical Site Use		Farming (grazing)	Appendix B
Surrounding land uses	North	Farming (grazing), low-density residential	Figure 1
	East	Farming (grazing), low-density residential, commercial (used car sales)	
	South	Princes Hwy, railway, farming (grazing/cropping)	
	West	Farming (grazing), low-density residential	
Proposed Use		Low-density residential	-

3 DESKTOP REVIEW & SITE INSPECTION

The following sources of historical information were reviewed:

- Aerial photographs held by the Department of Environment, Land, Water and Planning (DELWP) and Nearmap
- List of issued Certificates and Statements of Environmental Audit and EPA Priority Sites Register
- Geology plans
- Hydrogeology plans
- Topography, surface water and drainage plans

3.1 Aerial Photographs

Aerial photographs held by the Department of Environment, Land, Water and Planning (DELWP) from 1945, 1955, 1970, 1987 and 1991 were reviewed (Table 3-1). Aerial photographs from 2012, 2015, 2018 and 2022 from Nearmap were also reviewed. Copies of the aerial photographs are shown in Appendix B.

Table 3-1: Aerial Photograph Review

YEAR / SOURCE	SUMMARY
1945 DELWP	The site appears to be used for grazing/cropping. A homestead comprising a house and adjacent shed is observed in the southeast portion of the site. Boyds Creek is observed in the western portion of the site. An unnamed stream is observed in the northeast portion of the site. A small dam is observed in the northeast portion as part of the unnamed stream. Soil disturbance is observed in the northeast portion (potential dam). Trees are sparsely observed across the site. Rows of trees are observed along the west and southern site boundaries. A high concentration of trees is observed in the northeast corner, along Boyds Creek and in the southeast corner (homestead area). Pastoral land (grazing/cropping) is observed offsite in all directions. Princes Hwy and a railway is observed immediately offsite to the south.
1955 DELWP	No significant change is observed on or offsite.
1970 DELWP	A dam has been constructed in the central portion of the site connecting to Boyds Creek. The small dam connecting to the unnamed stream in the northeast has been expanded. A shed has been constructed in the northern portion of the site adjacent to Boyds Creek. Some trees have been removed across the site (in the northeast and southeast portions in particular).
1987 DELWP	An additional residence has been constructed in the southeast corner of the site. A tennis court has been constructed to the west of the main residence onsite. A residence, dam and potential caravan park has been constructed immediately offsite to the east.
2012 Nearmap	Trees have been removed from the northern part of the site (along Boyds Creek), and in the southeast corner. An additional shed has been constructed in the southeast portion of the site. Hay bales are observed east of the newly built shed. Stockpiling of misc. hard items is observed around the sheds in the homestead area. A transformer is observed on a power pole within the homestead area. The shed in the northern portion has been removed. The small dam in the northeast corner of the site appears to have been backfilled. The caravan park offsite to the east has been removed and turned into a used car centre.

YEAR / SOURCE	SUMMARY
2015 Nearmap	Trees have been removed from the northeast corner of the site. No other significant on or offsite changes are observed.
2018 Nearmap	Soil stockpiling is observed in the southeast corner of the site. No other significant on or offsite changes are observed.
2022 Nearmap	Soil stockpiling in the southeast corner has ceased. A compound (potential school) has been constructed offsite to the west.

3.2 List of Issued Certificates and Statements of Environmental Audit and EPA Priority Sites Register

The site is not listed on the EPA Priority Sites Register and there are no EPA Priority Sites within 1 km of the site. A search of the list of issued Certificates and Statements of Environmental Audits revealed that there are no listed properties within 1 km of the site containing a Statement of Environmental Audit.

3.3 Geology

Based on a review of the GeoVic 3[1] database the site is predominantly underlain by Pleistocene aged alluvial terrace deposits (Qa2) comprising gravel, sand & silt: variably sorted and rounded, generally unconsolidated, dissected to form terraces higher than Qa1, alluvial, floodplain deposits. Pliocene to Pleistocene aged Haunted Hills Formation (Nlh) is present in the northeast portion of the site, comprising sand, silt and gravel: various shades of brown, yellow, red, white; variably sorted, variably rounded; crudely to well-bedded; commonly strongly oxidised with ironstone near the top and also within the formation.

A plan of the regional geology is presented in Figure 2.

3.4 Victorian Landfill Register

The Victoria Unearthed Database[2], which includes the information from the Victorian Landfill Register, was reviewed. The search revealed no former landfills within 1 km of the site.

3.5 Hydrogeology

3.5.1 Protected Beneficial Uses

A search of the Visualising Victoria's Groundwater[3] database showed the site and surrounding region to be underlain by groundwaters with total dissolved solids (TDS) between 1,000 and 3,500 mg/L less than 10 m below ground level. This would conservatively classify the groundwater beneath the site as Segment A2 waters, as per the Environmental Reference Standards (2021).

The protected beneficial uses of Segment A2 are listed below:

- Water dependent ecosystems and species
- Potable Water Supply (acceptable)
- Potable mineral water supply
- Agriculture and irrigation (irrigation and stock watering)
- Industrial and commercial
- Water-based recreation (primary contact recreation)

[1] http://er-info.dpi.vic.gov.au/sd_weave/anonymous.html - (online) accessed June 2022.
[2] http://mapshare.maps.vic.gov.au/victoriaunearthed/ - (online) accessed June 2022.
[3] http://www.vvg.org.au/ - (online) accessed June 2022.

- Traditional Owner cultural values
- Buildings and structures
- Geothermal properties

3.6 Topography, Surface Water and Drainage

The site slopes inward toward Boyd's Creek flowing through the centre of the site, and towards the dams in the south and northeast portions. The onsite low areas are approx. 50 mAHD at the onsite dams/creeks. The onsite high areas approx. 60 mAHD in the west and east portions of the site.

It is expected that surface water runoff from the site will flow towards these onsite water features and/or recharge onsite.

3.7 Site Inspection

Beveridge Williams conducted a site inspection on 21 June 2022 where the following observations were made:

- The site was accessed from Bradford Drive to the southeast.
- Two houses were observed in the homestead area of the site (in the southeast portion).
- Three sheds were observed in the homestead area:
    - 1 large metal shed with a concrete floor contained a tractor, furniture, and minor quantities of packaged household chemicals.
    - 1 small wooden shed with a wood floor, containing an old hot water unit and furniture. Potential lead paint was observed on the exterior of the shed.
    - 1 small wooden shed with a concrete floor containing a workshop area (tools, minor packaged volumes of fuel storage, motor oils, paint cans) and furniture. Oil staining was observed on the floor of the shed. Potential lead paint was observed on the exterior of the shed.
- An old tractor was observed adjacent to the wooden sheds. A slight hydrocarbon odour was noted in the area.
- A gazebo was observed to the west of the main residence. Potential lead paint was observed on the gazebo.
- A tennis court (hard surface) was observed in the homestead area.
- A small coop/enclosure area was observed in the homestead area.
- Boyds Creek was observed transecting the site from the north to the south. A large dam was observed in the southern portion of the site. An additional dam was observed in the eastern portion of the site. Rubble (brick, concrete, ceramic) was observed at surface in the dry base of Boyds Creek.
- A small dry dam was observed in the northeast portion of the site. Surface fill material was observed in the area. Bullet tips were observed at surface throughout the area.
- Surface discolouration was observed in the southeast portion of the site, attributed to fill material. Anecdotal evidence from the landowner indicated that:
    - the fill material was brought onsite to infill a gully; and
    - the fill material was primarily sourced from the nearby hospital during construction and other soil dumping.
- Small soil stockpiles (approx. 2 m^3) were observed in the southeast portion of the site.
- A small (<10 m3) stockpile of rubble (concrete, brick, ceramic, cement sheet (non-ACM)) was observed in the homestead area of site.

Site photographs taken during the inspection are present in Appendix C.

4 POTENTIAL FOR CONTAMINATION

Based on the information provided by the site history review and site inspection, the following activities and potential contaminants have been listed in Table 4-1.

Table 4-1: Potential Contamination Sources

SOURCE / SITE ACTIVITIES	ONSITE / OFFSITE	LOCATION	CONTAMINANTS
Grazing/cropping	Onsite & offsite	Whole site	Heavy metals, organochlorine pesticides (OCP)
Soil stockpiling	Onsite	Southeast	Heavy metals, polycyclic aromatic hydrocarbons (PAH), organochlorine pesticides (OCP), total recoverable hydrocarbons (TRH), asbestos-containing materials (ACM)
Backfilled dam	Onsite	Northeast	Heavy metals, polycyclic aromatic hydrocarbons (PAH), organochlorine pesticides (OCP), total recoverable hydrocarbons (TRH), asbestos-containing materials (ACM)
Potential shooting area	Onsite	East	Heavy metals, PAH
Former sheds	Onsite	North, southeast	Asbestos-containing materials (ACM)

Beveridge Williams considers that the main risks of contamination is from filling in the southeast corner of the site, a shooting area in the east and from agricultural activities in the homestead / works area. It is considered that the broader site area has a low risk of contamination, and the homestead / works area and filled area (southeast corner) have a moderate risk of contamination.

5 PRELIMINARY SOIL CONTAMINATION ASSESSMENT

5.1 Assessment Guidelines and Criteria

The Victorian Environment Reference Standard (ERS) 2021, lists the beneficial uses for each segment of land to be protected. Based on the proposed use of the site (low-density residential) the site is classified as a Sensitive Use.

Table 5-1: Protected Environmental Values of Land

ENVIRONMENTAL VALUES		LAND USE						
				SENSITIVE USE				
		PARKS AND RESERVES	AGRICULTURAL	HIGH DENSITY	OTHER	RECREATION / OPEN SPACE	COMMERCIAL	INDUSTRIAL
Maintenance of ecosystems	Natural Ecosystems	√						
	Modified Ecosystems	√	√		√	√		
	Highly Modified Ecosystems		√	√	√	√	√	√
Human Health		√	√	√	√	√	√	√
Buildings and Structures		√	√	√	√	√	√	√
Aesthetics		√		√	√	√	√	
Production of food, flora and fibre		√	√		√			

Note: Table 1 is a reproduction of 'Table 4.2: Environmental values that apply to the land use categories' (Environment Reference Standard), May 2021. The shading denotes the beneficial uses to be protected for the proposed site use.

- **Maintenance of modified and highly modified ecosystems** – National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No.1) (NEPM (Amendment 2013)) - Ecological Investigation Levels (EIL). EPA Fill criteria (Publication No. 1828.2 (Waste disposal categories – characteristics and thresholds) published by the Environment Protection Authority of Victoria), which lists the maximum concentrations of contaminants allowed in soil to be disposed of as Clean Fill, Category D, Category C and Category B Contaminated Soil) has been referenced as a guide also.
- **Human health** – NEPM (Amendment 2013) Human Health Investigation Levels (HIL) for sensitive uses (i.e. primary schools - HIL A) and CRC Care 2011 Direct Contact HSL A have been referenced
- **Buildings and structures** – Contamination must not cause the land to be corrosive to or adversely affect the integrity of structures or building materials
- **Aesthetics** – Contamination must not cause the land to be offensive to the senses of human beings
- **Production of food, flora and fibre** – Contamination of land must not adversely affect produce quality, flora and fibre yield or affect the level of any indicator in food, flora and fibre produced at the site (or that may be produced).

5.1.1 NEPM (Amendment 2013) Ecological Investigation Levels Criteria Derivation

The NEPM (Amendment 2013) states that '*the EIL [criteria] takes into account the biological availability of the element in different soils and separate naturally occurring concentrations of a contaminant and the added contaminant in deriving EILs which are based on the 'added risk approach'*. This approach assumes that the availability of the ambient background concentration (ABC, the soil concentration in a specified locality that is the sum of the naturally occurring background and the contaminant levels that have been introduced from diffuse or non-point sources by general

anthropogenic activity not attributed to industrial, commercial, or agricultural activities) of a contaminant is zero or sufficiently close that it makes no practical difference. More importantly, it assumes that the background '*has resulted in the biodiversity of ecosystems or serves to fulfil the needs for micronutrients for the organisms in the environment*'. Therefore, the approach views only the effect of added contaminants to the environment as adverse (for further information refer to Section 2.4, Schedule B5b). Thus, rather than having a single numerical limit for a contaminant, different soils will have different limits. The EIL derivation methodology generates, wherever possible, soil-specific EILs'.

Beveridge Williams considers that any contamination identified on the site is unlikely to have been added within the last 2 years indicating that contamination would be "aged" (as defined by NEPM (Amendment 2013)). Therefore, Beveridge Williams has adopted the most conservative "aged" values listed in Appendix A of NEPM (Amendment 2013) Schedule B5a "Guide on Ecological Risk Assessment" for commercial and industrial for reporting purposes.

5.1.2 Site Specific Ecological Investigation Levels

Site specific EILs have been calculated for nickel and zinc based on the elevated concentrations encountered in some samples. The site specific EILs have been calculated in line with the NEPM 2013 guidelines using the NEPM 2013 EILs calculation tool using the following site inputs:

- Average CEC – 30 cmol/kg dry weight[4]
- Average pH – 7.1
- Average Iron concentrations in % - 1.372% - percentage calculated based on an average concentration of 13,720 mg/kg across the site.

Based on these values the following site specific EIL criteria have been applied at the site.

Table 5-2: Calculated Site Specific EILs (NEPM 2013)

ANALYTE	SITE SPECIFIC EILS (NEPM 2013) – FRESH	SITE SPECIFIC EILS (NEPM 2013) – AGED
Copper	120 mg/kg	230 mg/kg
Nickel	120 mg/kg	350 mg/kg
Zinc	380 mg/kg	990 mg/kg

5.2 Field Methodology

All fieldworks were carried out in accordance with Australian Standard (AS) 4482.1-2005 by a Beveridge Williams Environmental Professional who logged the soil samples generally in accordance with AS 1726-1993 and obtained disturbed soil samples at nominated depths.

The equipment used to recover the required soil samples was cleaned between each sample prior to each sample being taken in accordance with the following procedures:

- All adhered soil and/or other matter was removed by means of scrubbing and flushing with clean water
- The hand sampling equipment was then scrubbed in a phosphate-free detergent solution before being rinsed copiously in clean water
- Disposable rubber nitrile gloves worn by the Environmental Professional were replaced prior to the recovery of each sample.

The soil samples were placed into acid-rinsed and solvent-washed screw-top glass jars supplied by the analysing laboratory. The jars were tightly closed and kept on ice in a portable cooler until delivery to the laboratory under chain of custody procedures.

[4] A conservative average organic carbon content (%OC) of 10% has been applied for the site.

Each soil sample was assessed both visually and by odour for evidence of contamination with a ranking on a scale of 0 - 3 as follows:

0 No odour or visual evidence of contamination

1 Slight visual evidence of contamination and/or slight odour

2 Visual evidence of contamination and/or odour

3 Obvious visual evidence of contamination and/or strong odour.

A calibrated photoionization detector (PID) was used to screen for the presence of volatile organic compounds (VOCs) in all samples collected. During sampling, an extra sample was collected and placed in a properly sealed snap-lock plastic bag. The volume of soil used for obtaining PID readings was kept generally uniform for all samples tested. After approximately 15 minutes the plastic bag was pierced with the probe to obtain a PID reading.

All sample locations have been determined and recorded using a hand-held GPS unit (error tolerance +/- 3 m) or determined using measurements from fixed structures/features on-site.

All chemical testing was undertaken by the following NATA registered analytical laboratories:

- Primary testing laboratory - Eurofins Services Pty Ltd (Eurofins).
- Secondary testing laboratory (for QA/QC purposes) - Ecowise Australia Pty Ltd (ALS Water Resources Group, ALSWRG).

5.3 Soil Investigation (21 June 2022)

On 21 June 2022 a total of 20 surface samples (0.0-0.1 m) were collected on an approximate grid across the site by hand. An additional 9 surface samples were collected targeting areas of potential contamination around the former dam area in the northeast (where bullet tips were observed) and the homestead area.

Six soil boreholes (BH01 to BH06) were conducted onsite and targeted areas of potential contamination in the former dam area in the northeast (where bullet tips were observed) and the homestead area. The bores were hand augered to a maximum depth of 0.6 m. Samples were generally collected from surface (0.0 m), 0.3 m and 0.5 m where practical.

Nine mechanical test pits (TP01 to TP09) were conducted in the southeast corner of the site, targeting an area of potential filling / soil stockpiling observed in historical aerial imagery (refer to Section 3.1 above). Test pits were conducted to a maximum depth of 3.2 m. Samples were collected by hand from surface (0.0 m), 0.5 m, 1.0 m, 2.0 m and 3.0 m depths where practical.

5.3.1 Soil Observations

An orange-brown sandy clay fill was present at surface in BH01 (located at the dry dam in the northeast portion) to a maximum depth of 0.5 m. Bullet tips were observed at surface in the sandy clay fill material. Natural material was observed below 0.5 m depth.

A grey sandy gravel fill was present at surface (0.0-0.2 m) in the driveway in the homestead area in BH03 (adjacent to the sheds). A brown mottled orange sandy clay fill was observed from 0.2-0.4 m depth. Natural material was observed below 0.4 m depth.

A brown silty sand fill / disturbed natural material was observed in BH05 to 0.2 m depth. A slight hydrocarbon odour was noted at the location. Natural material was observed below 0.2 m depth.

Fill material was observed within TP01 to TP09 in the southeast portion of the site and was used to backfill a gully (refer to Section 3.7 above). Fill material comprised primarily a brown silty clay with trace fill inclusions (PVC, wires, asphalt etc). Natural material was observed underlying the fill, comprising soft grey silty clay (i.e., organic material consistent with the surface of the former gully).

Natural material was observed in all remaining samples locations. Natural soil comprised a brown clayey silt / silty clay.

Four asbestos samples (AS01, AS02, TP03-AS01 & TP06-AS01) were collected from surface in the southeast portion of the site during the test pit investigation. An additional five cement fragment samples (SP01-AS01 to SP01-AS05) were collected from the small rubble stockpile (<10 m^3) in the homestead area (non-ACM).

Borehole, test pit and surface sample locations are shown on Figure 3. Boreholes, test pit and surface sample logs are presented in Appendix D.

5.3.2 Contamination Ranking and PID Readings

All soil samples were screened in the field with a photoionisation detector (PID). The PID response recorded for all samples were below 1.1 ppm.

Table 5-3: Soil Sample Contamination Rankings

CONTAMINATION RANKING	SAMPLE	REASON
1	TP03/0.0-0.1, TP03/1.0-1.1, TP03/2.0-2.1, TP04/1.0-1.1	Trace asphalt inclusions
	BH01/0.0-0.1, 220621-SS22, 220621-SS24	Bullet tip inclusions
	BH05/0.0-0.1	Slight hydrocarbon odour
0	All remaining Beveridge Williams samples	No odour or visual evidence of contamination

Each VOC result is expressed as a VOC isobutylene equivalent concentration (in ppm). Different compounds give different responses relative to isobutylene.

5.4 Soil Chemical Testing Program

The chemical testing program for individual samples is detailed in Table 5-4.

Table 5-4: Soil Sample Chemical Testing Program

SAMPLE NUMBERS	TESTING PROGRAM
BH05/0.0-0.1, BH06/0.0-0.1, TP01/2.0-2.1, TP09/0.5-0.6, 220621-SS01	EPA 1828.2 Clean Fill Screen[5]
BH03/0.0-0.1, BH04/0.0-0.1, TP01/0.7-0.8, TP03/1.0-1.1, TP05/0.0-0.1, TP06/0.0-0.1, TP07/1.0-1.1, TP09/0.0-0.1, 220621-SS21	Heavy metals[6], PAH, TRH
BH01/0.0-0.1, BH01/0.5-0.6, BH02/0.0-0.1, TP01/3.0-3.1, TP02/0.0-0.1, TP02/0.9-1.0, TP03/0.0-0.1, TP03/2.0-2.1, TP03/3.0-3.1, TP04/0.0-0.1, TP04/1.0-1.1, TP04/2.2-2.3, TP05/0.5-0.6, TP06/1.0-1.1, TP06/2.0-2.1, TP07/0.0-0.1, TP09/2.0-2.1, 220621-SS02, 220621-SS03, 220621-SS04, 220621-SS05, 220621-SS06, 220621-SS07, 220621-SS08, 220621-SS09, 220621-SS10, 220621-SS11, 220621-SS12, 220621-SS13, 220621-SS14, 220621-SS15, 220621-SS16, 220621-SS17, 220621-SS18, 220621-SS19, 220621-SS20, 220621-SS22, 220621-SS23, 220621-SS24, 220621-SS25, 220621-SS26, 220621-SS27	Heavy metals, PAH, OCP
TP03/0.0-0.1, TP04/1.0-1.1, TP04/2.2-2.3, TP05/0.5-0.6	TRH
BH05/0.2-0.3, BH05/0.5-0.6	Zinc
220621-SS03, 220621-SS05, 220621-SS07, 220621-SS09, 220621-SS11, 220621-SS13, 220621-SS15, 220621-SS17, 220621-SS20	Fluoride
BH05/0.0-0.1, 220621-SS13	CEC
BH05/0.0-0.1	ASLP (arsenic)

[5]An EPA 1828.2 screen consists of the following analytes: total metals (Sb, As, Ba, Be, B, Cd, Cr (III+VI), Cr (VI), Co, Cu, Pb, Mn, Hg, Mo, Se, Ag, Sn, V, Zn), total cyanide, total fluoride, speciated phenols (halogenated plus non-halogenated), MAH, PAH, TPH, PCB, CHC and OCP

[6] Heavy metals: Al, Sb, As, Ba, Be, B, Cd, Cr (III+VI), Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Sr, Tl, Th, Sn, Ti, U, V, Zn

SAMPLE NUMBERS	TESTING PROGRAM
220621-SS01	ASLP (fluoride)
BH01/0.0-0.1	ASLP (lead)
BH06/0.0-0.1	ASLP (nickel)
TP03-AS01, TP06-AS01, SP01-AS01, SP01-AS03	Asbestos

5.5 Soil Chemical Testing Results

The results that exceed the assessment criteria are presented in Table 5-5 and Table 5-6.

Table 5-5: Soil Chemical Testing Results

ANALYTE	NUMBER OF SAMPLES TESTED	MIN CONC. (MG/KG)	MAX CONC. (MG/KG)	SAMPLES EXCEEDING NEPM (AMENDMENT 2013)			
				SITE SPECIFIC NEPM EIL/ESL CRITERIA	NEPM HIL/HSL A CRITERIA	NEPM HIL/HSL C CRITERIA	NEPM HIL/HSL D CRITERIA
Copper	52	<5	160	None	None	None	None
Lead	52	<5	617	None	BH01/0.0-0.1	BH01/0.0-0.1	None
Nickel	52	<5	69	None	None	None	None
Zinc	52	<5	1,400	BH05/0.0-0.1	None	None	None

Table 5-6: Soil Chemical Testing Results – Fill Exceedances

ANALYTE	NUMBER OF SAMPLES TESTED	MIN CONC. (MG/KG)	MAX CONC. (MG/KG)	SAMPLES EXCEEDING EPA IWRG 621	
				EPA FILL CRITERIA UPPER LIMIT	EPA CATEGORY C CONTAMINATED SOIL CRITERIA
Arsenic	52	<2	28	BH05/0.0-0.1	None
Copper	52	<5	160	BH01/0.0-0.1	None
Lead	52	<5	617	BH01/0.0-0.1	None
Nickel	52	<5	69	BH06/0.0-0.1, TP03/0.0-0.1	None
Zinc	52	<5	1,400	BH04/0.0-0.1, BH05/0.0-0.1	None
Fluoride	14	<100	470	220621-SS01	None

All tested analyte concentrations were reported below the adopted human health criteria (NEPM Amendment 2013 HIL/HSL A) apart from sample BH01/0.0-0.1 (lead – 617 mg/kg) which was reported above the NEPM 2013 HIL/HSL A & C criteria (300 & 600 mg/kg, respectively).

Five (BH01/0.0-0.1, BH04/0.0-0.1, BH05/0.0-0.1, BH06/0.0-0.1 & TP03/0.0-0.1) samples reported elevated heavy metals (arsenic, copper, lead, nickel, zinc) and one sample reported elevated fluoride concentrations (220621-SS01) above the EPA IWRG 1828.2 Fill Material Upper Limit.

Subsequent ASLP testing was conducted for arsenic, lead, nickel and fluoride and reported elevated leachable lead (3.8 mg/L) in sample BH01/0.0-0.1 above the EPA IWRG 1828.2 Category C Contaminated Soil Upper Limit. All other concentrations were reported at or below the laboratory detection limit.

Tabulated soil chemical testing results are presented in Appendix E. NATA Laboratory Certificates of Analysis for soil samples are presented in Appendix G.

6 QUALITY CONTROL

Secondary laboratory testing of three split samples (220621-SS01A, BH04/0.0-0.1A & TP04/0.0-0.1A) was undertaken by ALSWRG and three field duplicates (220621-S-D01, 220621-S-D02 & 220621-S-D03) were chemically tested by Eurofins. All Relative Percentage Difference (RPD) results for individual analytes were reported below 50% apart from some heavy metals (arsenic, barium, copper, lead, manganese, nickel, vanadium & zinc). The difference indicates heterogeneity within the samples. This differences in heavy metal concentrations are not considered to alter the conclusions of this report as:

- The differences in concentrations are marginal, and;
- There are no concentrations above the adopted human health criteria (NEPM HIL A) in samples with RPD values greater than 50%.

BH01/0.0-0.1 was re-tested 3 times due to high lead concentrations (2,300 mg/kg) initially reported above the NEPM HIL D criteria. Subsequent re-testing yielded lead concentrations of 620 mg/kg, 710 mg/kg and 520 mg/kg, all well below the initial concentration. The initial result is considered not to be representative of soil concentrations and therefore the average concentrations of the 3 re-test samples have been adopted for comparison with selected criteria.

One rinsate sample (220621-S-RB01) was tested by Eurofins. All concentrations were reported below laboratory detection limits.

The quality control data indicated an acceptable level of correlation between the results of ALSWRG and Eurofins. The performance of these laboratories in terms of accuracy, precision and completeness of results is considered to be acceptable.

The chemical testing results from the original samples tested by ALSWRG are considered to be acceptable in terms of data quality.

7 DISCUSSION

7.1 Human Health

Elevated lead was reported in one sample (BH01/0.0-0.1 – 617mg/kg[7]) above the adopted human health criteria (NEPM Amendment 2013 HIL/HSL A – 300 mg/kg). The underlying sample (BH01/0.5-0.6) reported a low lead concentration (19 mg/kg) considered to be consistent with background. Bullet tips were observed in the area of the surface fill material. Beveridge Williams considers the elevated lead around BH01 may be a result of the identified bullets and as such unlikely to be representative of the broader soils (supported by the low lead concentrations in underlying soils). Based on the reported lead in this area, soils would be considered unsuitable for the proposed development and will require further investigation to delineate the extent and distribution of lead impacts in the area.

All other analyte concentrations were reported below the guidelines for the protection of human health for sensitive uses such as low-density residential (NEPM Amendment 2013 HIL/HSL A). Therefore, onsite soil concentrations are not considered to pose a risk to the health of future site users across the vast majority of the site.

7.2 Maintenance of Ecosystems

Elevated zinc concentrations were reported in BH05/0.0-0.1 (1,400 mg/kg). Elevated zinc in surface soils around BH05 has the potential to impact zinc-sensitive vegetation, therefore further investigation is considered prudent to investigate heavy metal concentrations in surface soils around the works area. However, Beveridge Williams considers that based on current testing results, the elevated zinc concentrations are not considered pose a widespread issue at the site as:

- Zinc concentrations are likely to be associated with nearby galvanised metal shed roofing.
- The potential area of impact (i.e. carport area adjacent to BH05) is considered to be small (approx. 30 m^2).
- Underlying samples tested at 0.2 m & 0.5 m were well below the site-specific EIL criteria. Nearby sample BH06/0.0-0.1 (approx. 6 m away) reported concentrations well below the site-specific EIL criteria (170 mg/kg).
- Nearby vegetation was observed to be in good health; and
- In the broader site context, the calculated 95%UCL mean for zinc in surface soils across the remainder of the site (73.05 mg/kg) is well below the site-specific EIL criteria (990 mg/kg).

All other tested analyte concentrations were below the adopted Ecological Investigation Levels (NEPM Amendment 2013 EIL and site-specific nickel EIL calculated in Section 5.1.2 above) except for one sample (BH05/0.0-0.1). Therefore, soil chemical concentrations across the remainder of site are not considered to pose a risk to site ecology.

7.3 Aesthetics

Fill material (up to 3.0 m deep) was encountered within the southeast portion of the site. Fill comprised a silty clay with trace fill inclusions, including demolition fragments (PVC, brick, concrete, wire etc) typically of less than 5mm in size. Beveridge Williams considers that based on the low concentration of fill inclusions, the trace waste inclusions observed in the fill material are not considered to pose an aesthetic risk.

As such, Beveridge Williams considers that no aesthetic issues are present at the site.

7.4 Asbestos

Four asbestos cement samples (AS01, AS02, TP03-AS01, TP06-AS01) were collected from surface (and in surface soils) in the filled area in the southeast portion of the site. Beveridge Williams considers that the trace levels of bonded asbestos cement fragments are considered to be localised within the fill area, are not considered to be in significant concentrations within the fill material and are likely to be contained to the surface (i.e., top 10 cm of soil).

[7] 3 x sub-sample testing was conducted on the sample for QA/QC purposes – see Section 6 above.

7.5 Offsite Soil Disposal

7.5.1 Bullet Tip Fill (BH01)

Elevated lead (617 mg/kg) was reported in BH01/0.0-0.1 in fill material in the former dam area in the northeast portion of the site above the EPA IWRG 1828.2 Category Fill Material Upper Limit (300 mg/kg). Bullet tips were observed in the fill material.

Subsequent ASLP testing conducted for lead reported elevated leachable lead (3.8 mg/L) above the EPA IWRG 1828.2 Category C Contaminated Soil Upper Limit. Therefore, should this material be stockpiled for offsite disposal, it is likely to be classified as EPA Category B Contaminated Soil.

7.5.2 Main Works Area

Elevated arsenic (28 mg/kg), nickel (69 mg/kg) and zinc (up to 1,400 mg/kg) were reported in surface soils in the main works area above the EPA IWRG 1828.2 Category Fill Material Upper Limits. Therefore, should surface material from the works area be stockpiled for offsite disposal, they are likely to be classified as EPA Category D or C Contaminated Soil.

Further sampling and testing around BH01 and the main works areas will provide greater resolution around disposal classifications.

7.5.3 Remainder of Site

One sample reported elevated fluoride concentrations (220621-SS01) and one sample reported elevated nickel (TP03/0.0-0.1) above the EPA IWRG 1828.2 Fill Material Upper Limit. However, statistical analysis was carried out using ProUCL 5.1 in accordance with EPA guidelines to calculate 95% UCL means for fluoride and nickel for samples across the site broader site area (excluding isolated areas of heavy metal concentrations discussed above). The 95% UCL means for fluoride (204.8 mg/kg) and nickel (9.603 mg/kg) are all below the Fill Material Upper Limits.

All other reported concentrations were reported below the EPA IWRG 1828.2 Fill Limit. Therefore, onsite soil across the broader site area is classified as **EPA Fill Material**. If soils are to be disposed offsite it must be conducted in accordance with EPA guidelines and regulations.

Should soil staining, odours, or a significant amount of waste fragments (plastic, metal, bonded sheet, ceramics etc) be encountered during soil excavation works, the material should be stockpiled separately and a suitably qualified environmental professional (e.g., Beveridge Williams) engaged to complete further chemical testing and classification. Any soil imported to site during development must be conducted in accordance with EPA regulations.

8 CONCLUSION & RECOMMENDATIONS

Based on observations during a site inspection, soil sampling and chemical testing results, Beveridge Williams considers the majority of the site is considered to be of low risk for widespread contamination. Isolated areas of heavy metal impacts were identified in the following locations onsite:

- Elevated lead was reported in one sample BH01/0.0-0.1 above human health criteria in surface fill (orange sandy clay) located in the northeast portion of the site. The underlying sample (BH01/0.5-0.6) in natural soils reported low lead concentrations considered to be consistent with background levels. Bullet tips were observed in the area of the surface fill material and may result in unrepresentative lead concentrations.
- Elevated zinc in sample BH05/0.0-0.1 around the homestead/garage area, considered due to stormwater runoff from galvanised roofing.

Fill material (up to 3.0 m deep) was encountered within the southeast portion of the site. Fill comprised a silty clay with trace fill inclusions, including demolition fragments (PVC, brick, concrete, wire etc) typically of less than 5mm in size. Beveridge Williams considers that based on the chemical testing results and low concentration of fill inclusions (which are not considered to pose an aesthetic risk) and absence of potential asbestos containing material within sub surface fill, the fill area does not comprise contaminated soils. Trace asbestos cement fragments were observed at surface in the fill area. Beveridge Williams recommends that:

- A suitably qualified asbestos hygienist be engaged to remove trace bonded asbestos cement fragments at surface in the southeast portion.
- A suitably qualified geotechnical consultant be engaged to determine the suitability (compaction and foundation design) of fill for development in the southeast portion of the site.
- Further investigation around BH01 to assess the potential distribution and delineate the extents of the lead impacts.
- Further investigation around BH05 to confirm the extents of elevated zinc in surface soils.

Based on the current information, it is considered that due to the chemical testing results reported, the majority of the site is considered to be of low risk and does not constitute potentially contaminated land. As such an Environmental Audit would not be recommended for the broader site.

Due to the isolated areas of reported concentrations, additional targeted investigations are recommended to be undertaken around the reported lead, zinc and trace asbestos fragments at surface in the southeast portion.

Areas requiring further targeted investigations are shown on Figure 4.

9 LIMITATIONS

Soil and rock formations are variable. The borehole, test pit and surface sample logs indicate the approximate subsurface conditions only at the specific test locations. Boundaries between zones on the logs are often not distinct, but rather are transitional and have been interpreted. The precision with which subsurface conditions are indicated depends largely on the frequency and method of sampling, and the uniformity of subsurface conditions.

Chemical conditions described in this report refer only to those conditions indicated by analysis of samples obtained at the points and under the circumstances noted in the report.

These conditions may differ due to the variability of contaminant concentrations in imported fill material or in natural soil as a consequence of activities on the site or adjacent sites. Where conditions encountered at the site or the proposed development differ significantly from those anticipated in this report, it is a condition of this report that Beveridge Williams & Co Pty Ltd be notified of the changes and provided with an opportunity to review the recommendations of this report.

This report has been prepared as per the scope of works agreed between Beveridge Williams & Co Pty Ltd and the Client which commissioned the report. This report cannot be relied on by any other third party for any purpose except with our prior written consent. The Client may distribute this report to other parties and in doing so warrants that the report is suitable for the purpose it was intended for. However, any party intending to rely on this report should contact Beveridge Williams to determine the suitability of this report for their specific purpose.

BEVERIDGE WILLIAMS & CO PTY LTD

Prepared by

[redacted]

[redacted]

Senior Environmental Engineer

Approved for issue by

[redacted]

[redacted]

Senior Environmental Scientist

FIGURES

FIGURE 1 - SITE LOCATION PLAN

FIGURE 2 - REGIONAL GEOLOGY AND TOPOGRAPHY PLAN

FIGURE 3 - SITE FEATURES AND SAMPLE LOCATION PLAN (GRID & TARGET SAMPLES)

FIGURE 4 - AREAS OF RECOMMENDED FURTHER INVESTIGATION

Approximate Site Location

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Project Name	Preliminary Contamination Assessment - 5483 & 5495 Princes Highway, Traralgon
Drawing Title	Site Location Plan
Client	Stable Engineering Services

Drawn Date	[redacted] 31.05.2022
Approved Date	[redacted] 13.07.2022
Image Source	NEARMAP

Beveridge Williams
development & environment consultants
1 Glenferrie Road
Malvern VIC 3144
Ph : 03 9524 8888
Fax: 03 9524 8899
www.beveridgewilliams.com.au

75 50 25 0 100 200 300 m

Scale 1:10,000 @ A4

Project Ref. 2101947 | Figure No. 01 | Rev. 0

Drawing Ref. E:\JOBS DATA\2101947 - 5495 PRINCES HIGHWAY, TRARALGON_ENV\00\PLANS\2101947 - PLAN.DWG

N

Rev	Description	Date	By	App.

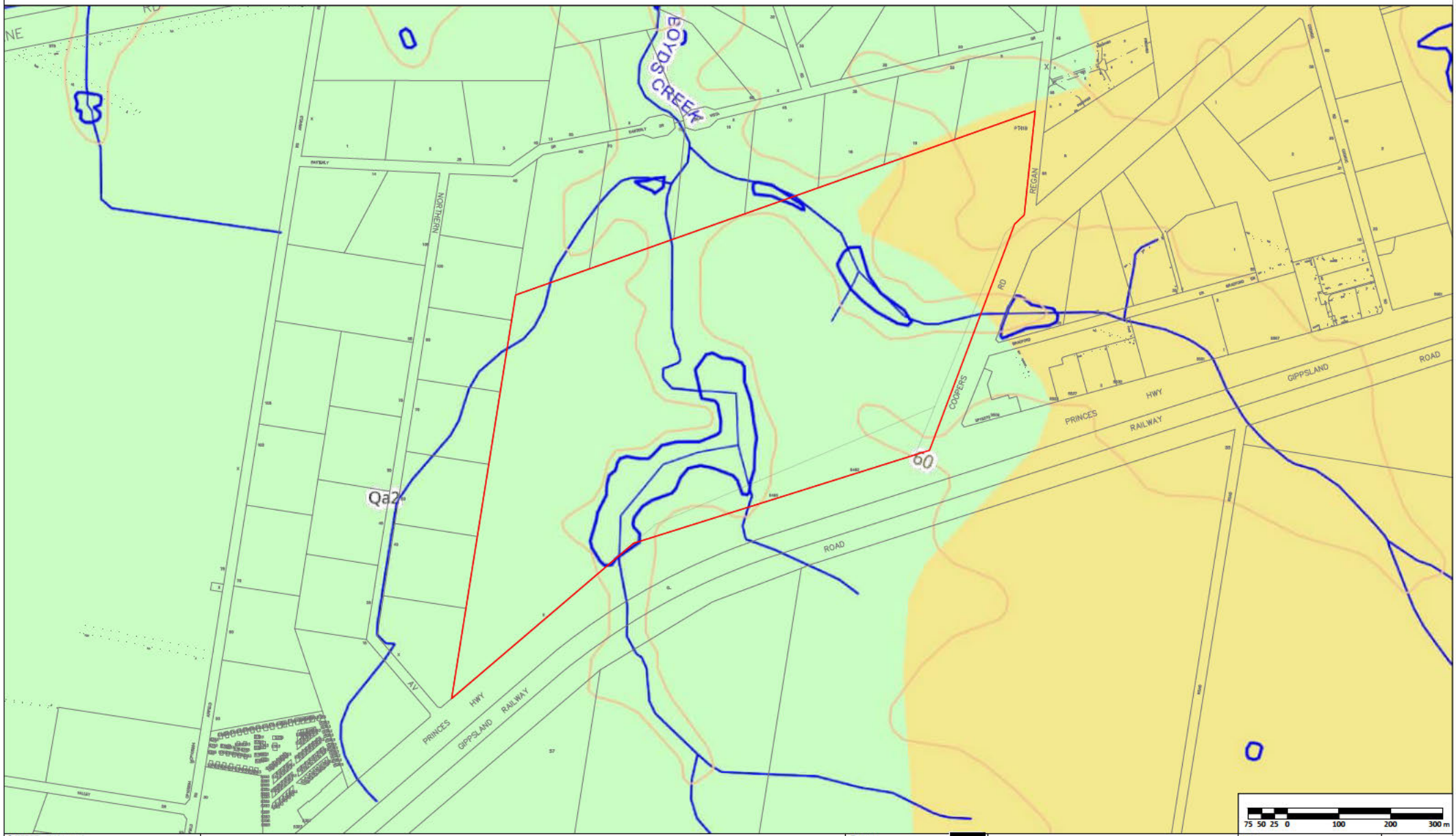
Approximate Site Location

50 Elevation Contours (mAHD)

Watercourses

Alluvial terrace deposits (Qa2) - gravel, sand silt: variably sorted and rounded, generally unconsolidated, dissected to form terraces higher that Qa1, alluvial, floodplain deposits

Haunted Hills Formation (Nlh) - sand, silt, gravel: various shades of brown, yellow, red, white; variably sorted, variably rounded; crudely to well-bedded; commonly strongly oxisidised with ironstone near the top and also within the formation



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Project Name: Preliminary Contamination Assessment - 5483 & 5495 Princes Highway, Traralgon

Drawing Title: Geology, Topography and Watercourses Plan

Client: Stable Property Services

Drawn Date: [redacted] 31.05.2022

Approved Date: [redacted] 13.07.2022

Image Source: NEARMAP

Beveridge Williams
development & environment consultants
1 Glenferrie Road
Malvern VIC 3144
Ph: 03 9524 8888
Fax: 03 9524 8899
www.beveridgewilliams.com.au

Scale: 1:10,000 @ A4

Project Ref.: 2101947

Figure No.: 02

Rev.: 0

Drawing Ref.: E:\JOBS DATA\2101947 - 5495 PRINCES HIGHWAY, TRARALGON_ENV\00\PLANS\2101947 - PLAN.DWG

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Rev Description Date By App.

Approximate Site Location

SS01 Approximate Surface Sample Location

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Rev Description Date By App.

Project Name: Preliminary Contamination Assessment - 5483 & 5495 Princes Highway, Traralgon

Drawing Title: Site Features and Sample Location Plan (Grid Samples)

Client: Stable Property Services

Drawn Date: [redacted]

Approved Date: 30.06.2022

Image Source: NEARMAP

Beveridge Williams
development & environment consultants
1 Glenferrie Road
Malvern VIC 3144
Ph: 03 9524 8888
Fax: 03 9524 8899
www.beveridgewilliams.com.au

Scale: 1:7,500 @ A4

Project Ref.: 2101947

Figure No.: 03A

Rev.: 0

Drawing Ref.: K:\JOBS\DATA\2101947 - 5495 PRINCES HIGHWAY, TRARALGON_ENV\00\PLANS\2101947 - PLAN.DWG

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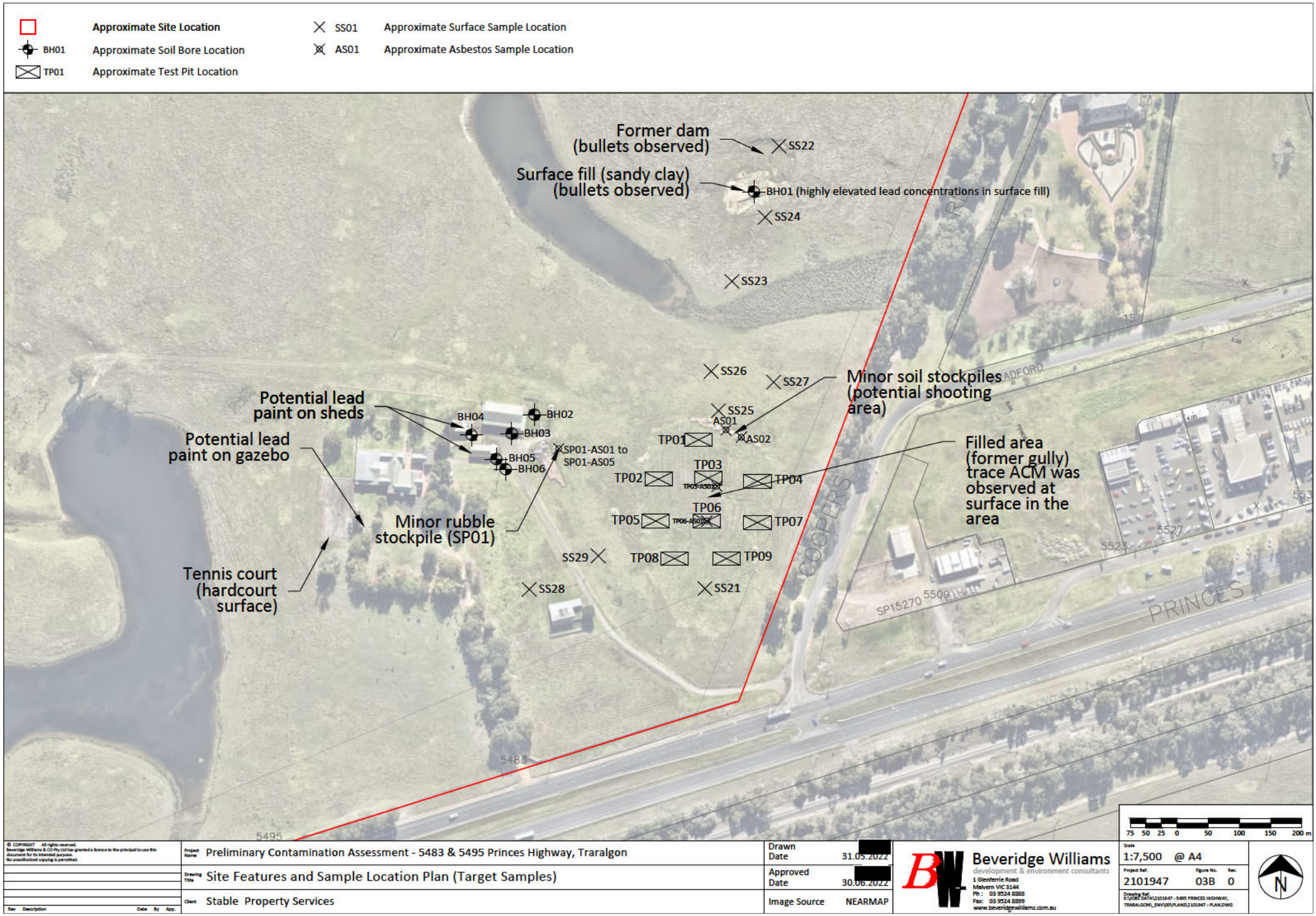

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Project Name: Preliminary Contamination Assessment - 5483 & 5495 Princes Highway, Traralgon

Drawing Title: Site Features and Sample Location Plan (Target Samples)

Client: Stable Property Services

Rev | Description | Date | By | App.

Drawn Date: [redacted] 31.05.2022

Approved Date: [redacted] 30.06.2022

Image Source: NEARMAP

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development & environment consultants
1 Glenferrie Road
Malvern VIC 3144
Ph: 03 9524 8888
Fax: 03 9524 8899
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Scale: 1:7,500 @ A4

Project Ref.: 2101947

Figure No.: 03B

Rev.: 0

Drawing Ref.: E:\JOBS DATA\2101947 - 5495 PRINCES HIGHWAY, TRARALGON_ENV\00\PLANS\2101947 - PLAN.DWG

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Approximate Site Location

Approximate Area of Recommended Further Work

75 50 25 0 100 200 300 m

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Project Name: Preliminary Contamination Assessment - 5483 & 5495 Princes Highway, Traralgon

Drawing Title: Areas of Recommended Further Work

Client: Stable Property Services

Rev | Description | Date | By | App.

Drawn Date: [redacted]

Approved Date: 31.05.2022 [redacted] 13.07.2022

Image Source: NEARMAP

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www.beveridgewilliams.com.au

Scale: 1:10,000 @ A4

Project Ref.: 2101947 | Figure No.: 04 | Rev.: 0

Drawing Ref.: E:\JOBS DATA\2101947 - 5495 PRINCES HIGHWAY, TRARALGON_ENV\00\PLANS\2101947 - PLAN.DWG

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APPENDIX A PLANNING PROPERTY REPORT

PLANNING PROPERTY REPORT

Environment, Land, Water and Planning

From www.planning.vic.gov.au at 31 May 2022 10:25 AM

PROPERTY DETAILS

Address:	**5495 PRINCES HIGHWAY TRARALGON 3844**
Crown Description:	**Allot. 41D PARISH OF TRARALGON**
Standard Parcel Identifier (SPI):	**41D\PP3647**
Local Government Area (Council):	**LATROBE** www.latrobe.vic.gov.au
Council Property Number:	**34358**
Planning Scheme:	**Latrobe** Planning Scheme - Latrobe
Directory Reference:	**Vicroads 97 J5**

UTILITIES

Rural Water Corporation:	**Southern Rural Water**
Urban Water Corporation:	**Gippsland Water**
Melbourne Water:	**Outside drainage boundary**
Power Distributor:	**AUSNET**

STATE ELECTORATES

Legislative Council:	**EASTERN VICTORIA**
Legislative Assembly:	**MORWELL**

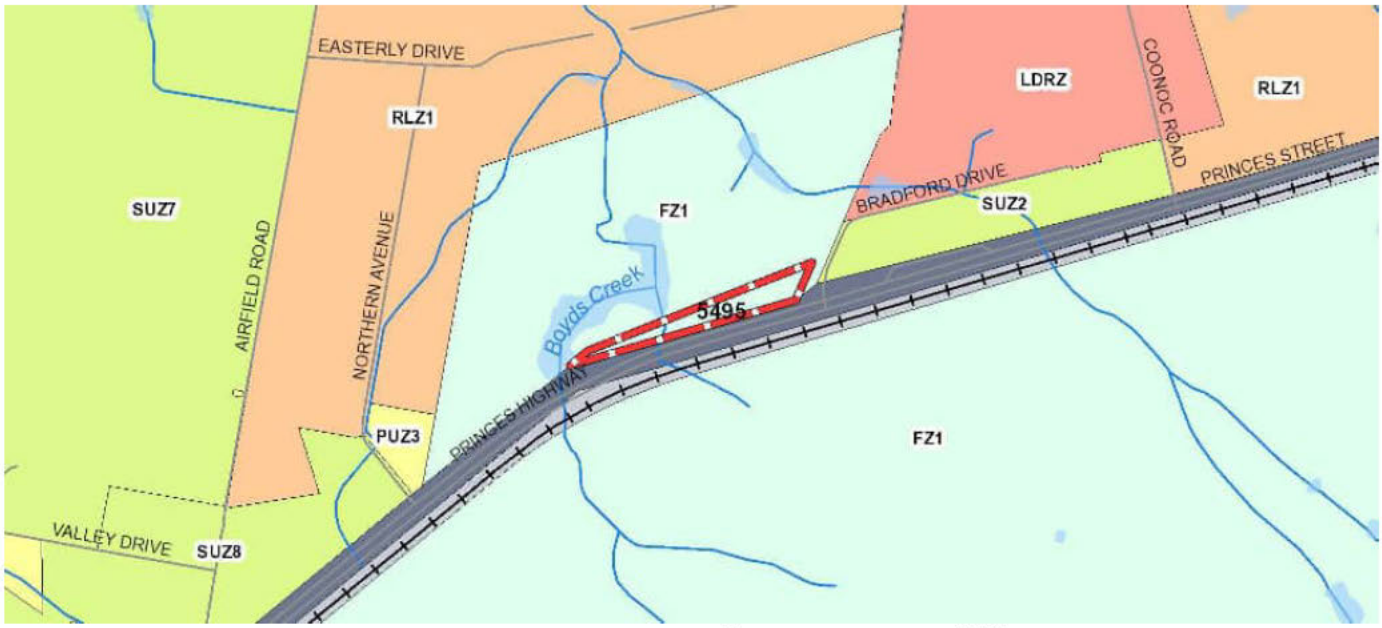
OTHER

Registered Aboriginal Party: **Gunaikurnai Land and Waters Aboriginal Corporation**

View location in VicPlan

Planning Zones

FARMING ZONE (FZ)
FARMING ZONE - SCHEDULE 1 (FZ1)



0 500 m

FZ - Farming
LDRZ - Low Density Residential
PUZ1 - Public Use-Service and Utility
PUZ3 - Public Use-Health & Community
RLZ - Rural Living
SUZ - Special Use
TRZ1 - State Transport Infrastructure
TRZ2 - Principal Road Network
Railway line
Water area
Water course

Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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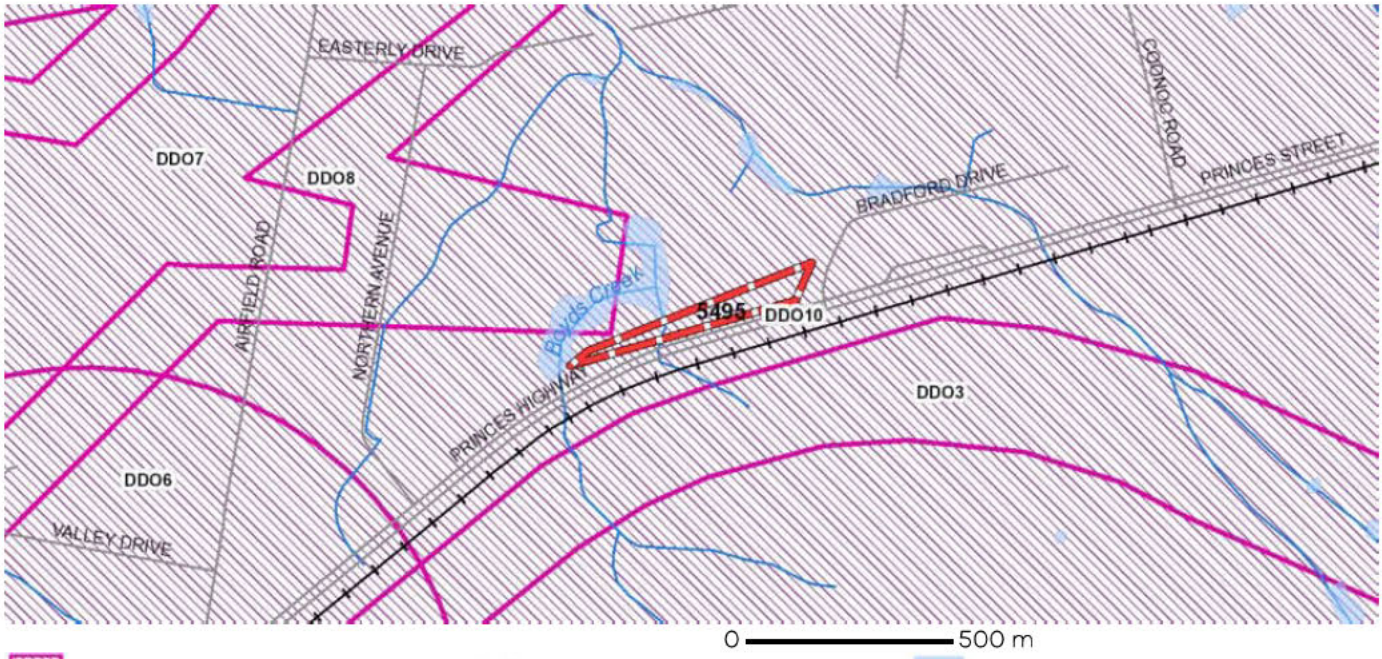
PLANNING PROPERTY REPORT

Planning Overlays

DESIGN AND DEVELOPMENT OVERLAY (DDO)

DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 10 (DDO10)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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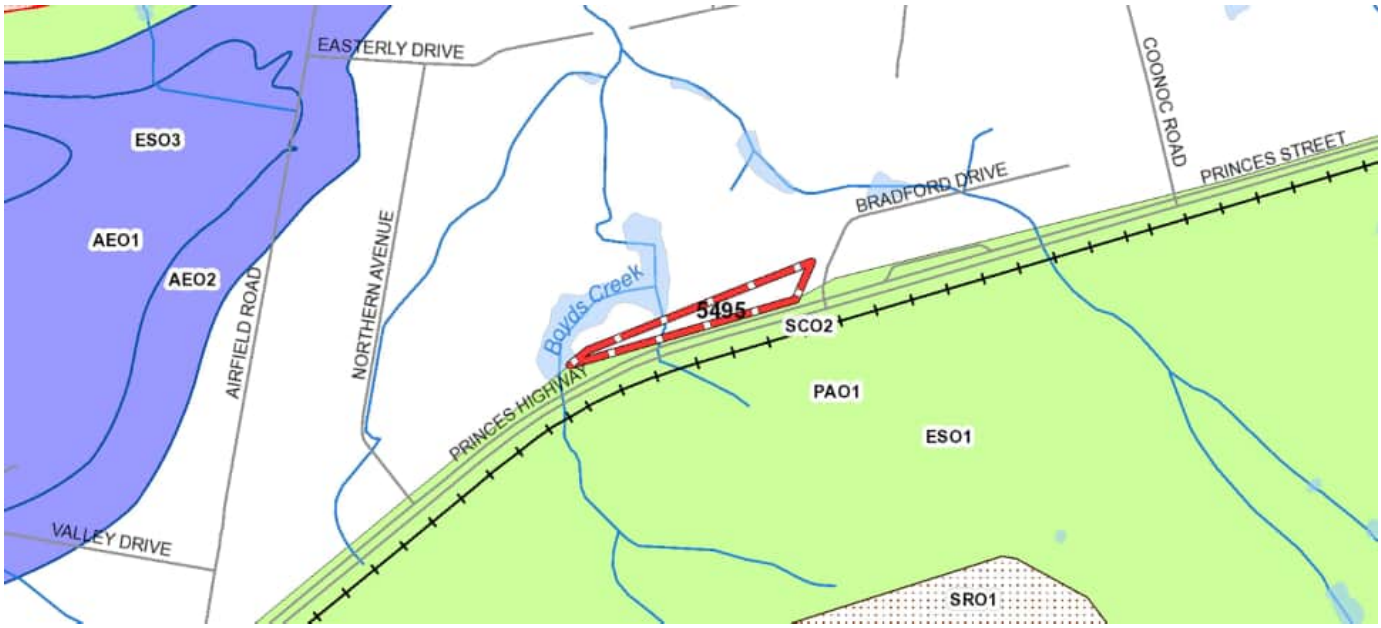
PLANNING PROPERTY REPORT

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

AIRPORT ENVIRONS OVERLAY (AEO)
BUSHFIRE MANAGEMENT OVERLAY (BMO)
ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO)
PUBLIC ACQUISITION OVERLAY (PAO)
SPECIFIC CONTROLS OVERLAY (SCO)
STATE RESOURCE OVERLAY (SRO)



AEO - Airport Environs
BMO - Bushfire Management
ESO - Environmental Significance
PAO - Public Acquisition
SCO - Specific Controls
SRO - State Resource
Railway line
Water area
Water course

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PLANNING PROPERTY REPORT

Areas of Aboriginal Cultural Heritage Sensitivity

All or part of this property is an 'area of cultural heritage sensitivity'.

'Areas of cultural heritage sensitivity' are defined under the Aboriginal Heritage Regulations 2018, and include registered Aboriginal cultural heritage places and land form types that are generally regarded as more likely to contain Aboriginal cultural heritage.

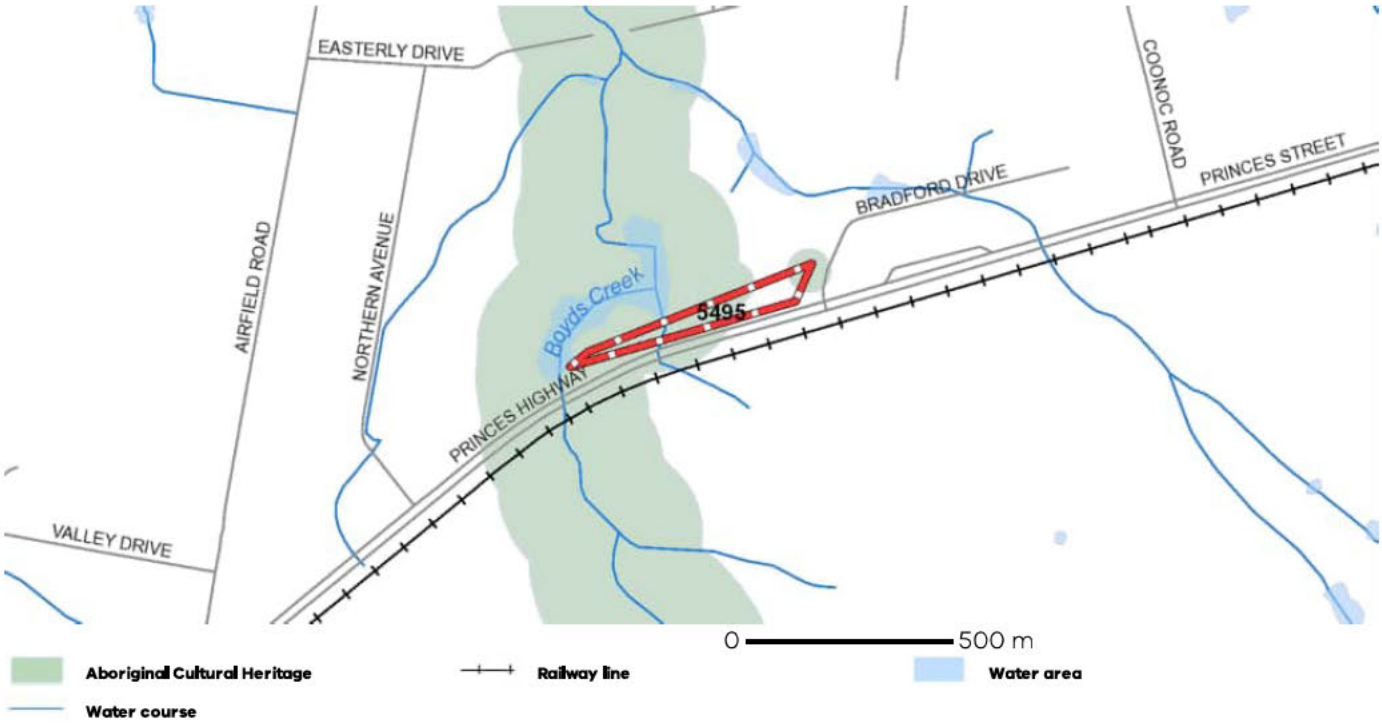
Under the Aboriginal Heritage Regulations 2018, 'areas of cultural heritage sensitivity' are one part of a two part trigger which require a 'cultural heritage management plan' be prepared where a listed 'high impact activity' is proposed.

If a significant land use change is proposed (for example, a subdivision into 3 or more lots), a cultural heritage management plan may be triggered. One or two dwellings, works ancillary to a dwelling, services to a dwelling, alteration of buildings and minor works are examples of works exempt from this requirement.

Under the Aboriginal Heritage Act 2006, where a cultural heritage management plan is required, planning permits, licences and work authorities cannot be issued unless the cultural heritage management plan has been approved for the activity.

For further information about whether a Cultural Heritage Management Plan is required go to
http://www.aav.nrms.net.au/aavQuestion1.aspx

More information, including links to both the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, can also be found here - https://www.aboriginalvictoria.vic.gov.au/aboriginal-heritage-legislation



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PLANNING PROPERTY REPORT

Further Planning Information

Planning scheme data last updated on 25 May 2022.

A **planning scheme** sets out policies and requirements for the use, development and protection of land.
This report provides information about the zone and overlay provisions that apply to the selected land.
Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting https://www.planning.vic.gov.au

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the ***Planning and Environment Act 1987.***
It does not include information about exhibited planning scheme amendments, or zonings that may abut the land.
To obtain a Planning Certificate go to Titles and Property Certificates at Landata – https://www.landata.vic.gov.au

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit https://mapshare.maps.vic.gov.au/vicplan

For other information about planning in Victoria visit https://www.planning.vic.gov.au

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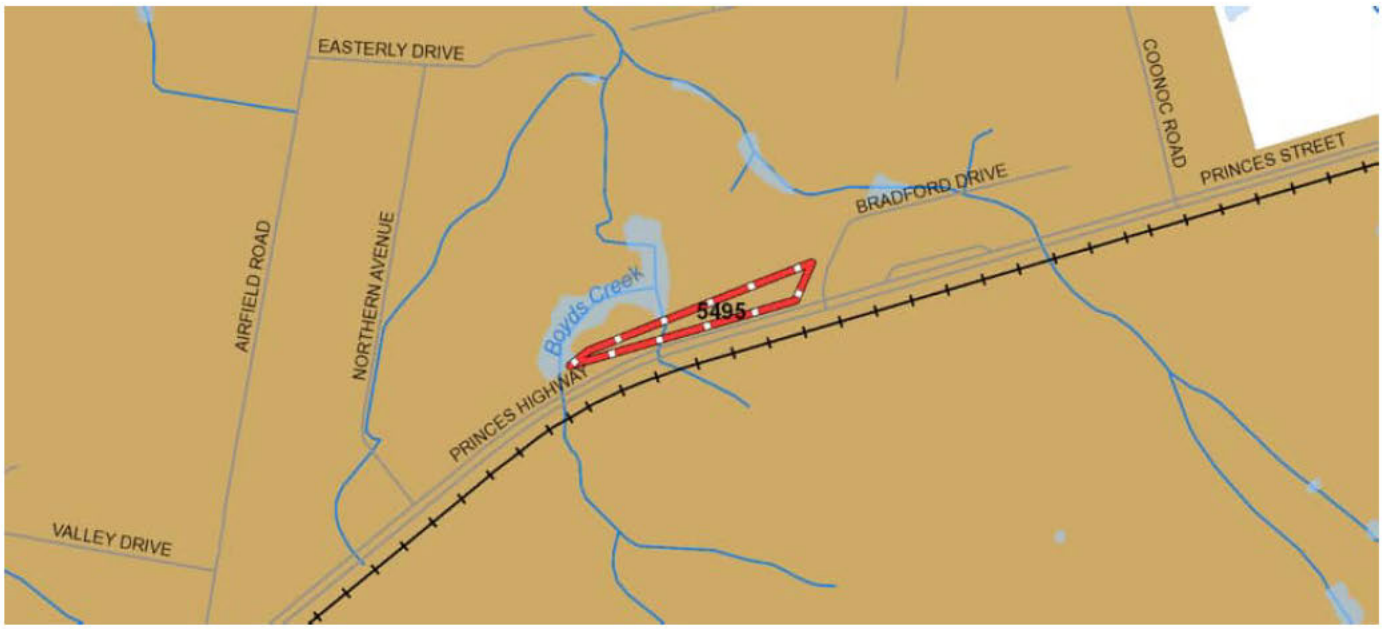
PLANNING PROPERTY REPORT

Designated Bushfire Prone Areas

This property is in a designated bushfire prone area.
Special bushfire construction requirements apply. Planning provisions may apply.



Designated bushfire prone areas as determined by the Minister for Planning are in effect from 8 September 2011 and amended from time to time.

The Building Regulations 2018 through application of the Building Code of Australia, apply bushfire protection standards for building works in designated bushfire prone areas.

Designated bushfire prone areas maps can be viewed on VicPlan at https://mapshare.maps.vic.gov.au/vicplan or at the relevant local council.

Note: prior to 8 September 2011, the whole of Victoria was designated as bushfire prone area for the purposes of the building control system.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website https://www.vba.vic.gov.au

Copies of the Building Act and Building Regulations are available from http://www.legislation.vic.gov.au

For Planning Scheme Provisions in bushfire areas visit https://www.planning.vic.gov.au

Native Vegetation

Native plants that are indigenous to the region and important for biodiversity might be present on this property. This could include trees, shrubs, herbs, grasses or aquatic plants. There are a range of regulations that may apply including need to obtain a planning permit under Clause 52.17 of the local planning scheme. For more information see Native Vegetation (Clause 52.17) with local variations in Native Vegetation (Clause 52.17) Schedule

To help identify native vegetation on his property and the application of Clause 52.17 please visit the Native Vegetation Information Management system https://nvim.delwp.vic.gov.au/ and Native vegetation (environment.vic.gov.au) or please contact your relevant council.

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PLANNING PROPERTY REPORT

Environment, Land, Water and Planning

From www.planning.vic.gov.au at 31 May 2022 10:25 AM

PROPERTY DETAILS

Address:	**5483 PRINCES HIGHWAY TRARALGON 3844**
Lot and Plan Number:	**More than one parcel - see link below**
Standard Parcel Identifier (SPI):	**More than one parcel - see link below**
Local Government Area (Council):	**LATROBE** www.latrobe.vic.gov.au
Council Property Number:	**34357**
Planning Scheme:	**Latrobe** Planning Scheme - Latrobe
Directory Reference:	**Vicroads 97 J5**

This property has 2 parcels. For full parcel details get the free Property report at Property Reports

UTILITIES

Rural Water Corporation:	**Southern Rural Water**
Urban Water Corporation:	**Gippsland Water**
Melbourne Water:	**Outside drainage boundary**
Power Distributor:	**AUSNET**

STATE ELECTORATES

Legislative Council:	**EASTERN VICTORIA**
Legislative Assembly:	**MORWELL**

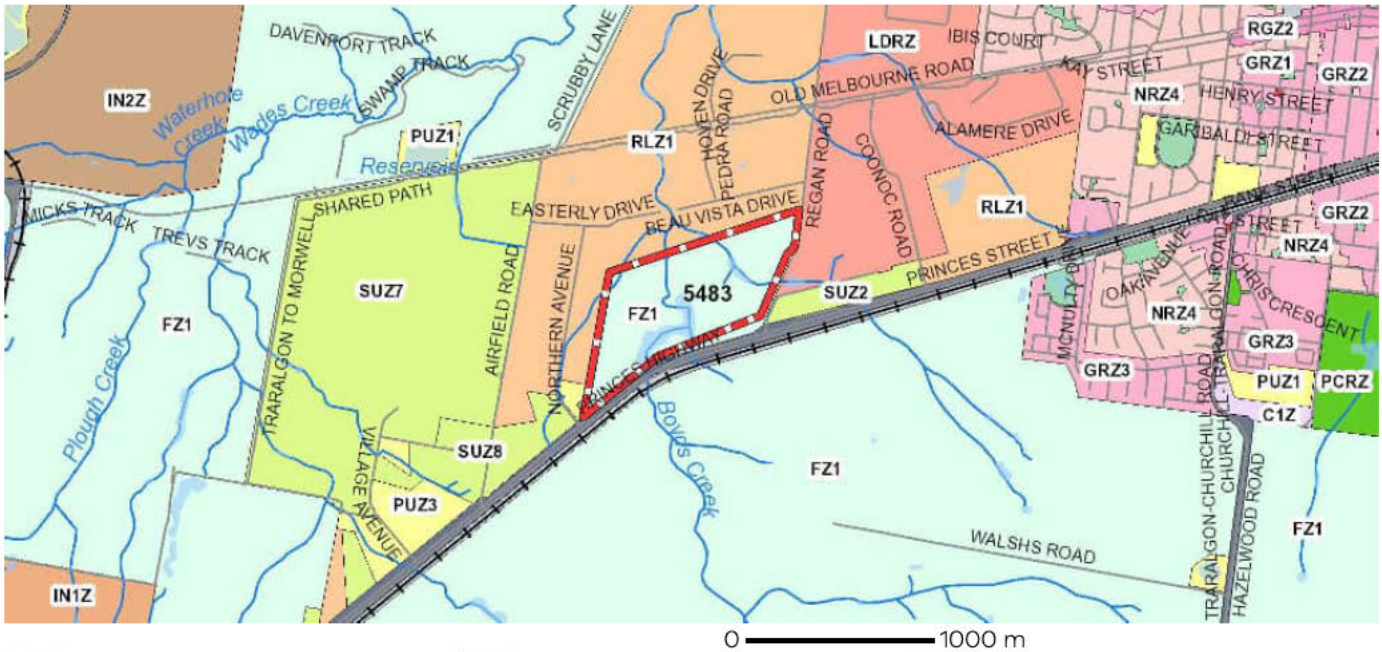
OTHER

Registered Aboriginal Party:	**Gunaikurnai Land and Waters Aboriginal Corporation**

View location in VicPlan

Planning Zones

FARMING ZONE (FZ)
FARMING ZONE - SCHEDULE 1 (FZ1)



- C1Z - Commercial 1
- IN1Z - Industrial 1
- MUZ - Mixed Use
- PPRZ - Public Park and Recreation
- PUZ3 - Public Use-Health & Community
- SUZ - Special Use
- Railway line
- FZ - Farming
- IN2Z - Industrial 2
- NRZ - Neighbourhood Residential
- PUZ1 - Public Use-Service and Utility
- RGZ - Residential Growth
- TRZ1 - State Transport Infrastructure
- Water area
- GRZ - General Residential
- LDRZ - Low Density Residential
- PCRZ - Public Conservation and Resource
- PUZ2 - Public Use-Education
- RLZ - Rural Living
- TRZ2 - Principal Road Network
- Water course

Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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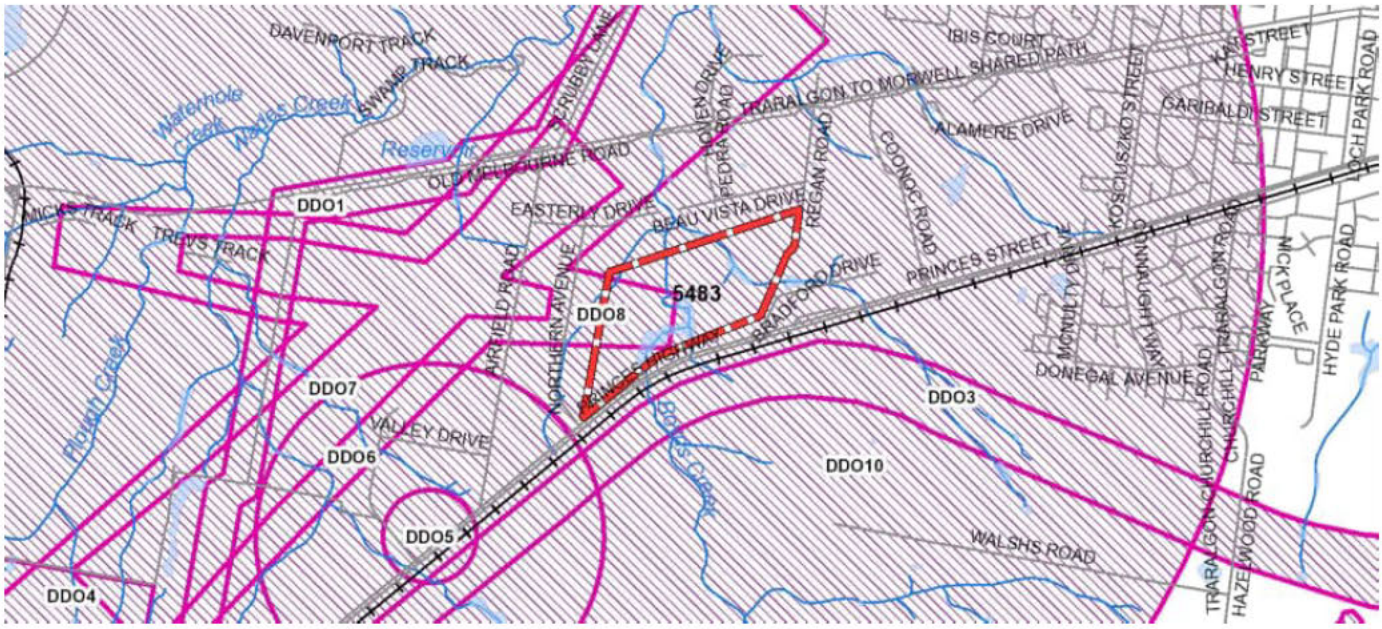
PLANNING PROPERTY REPORT

Planning Overlays

DESIGN AND DEVELOPMENT OVERLAY (DDO)
DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 8 (DDO8)
DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 10 (DDO10)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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PLANNING PROPERTY REPORT

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

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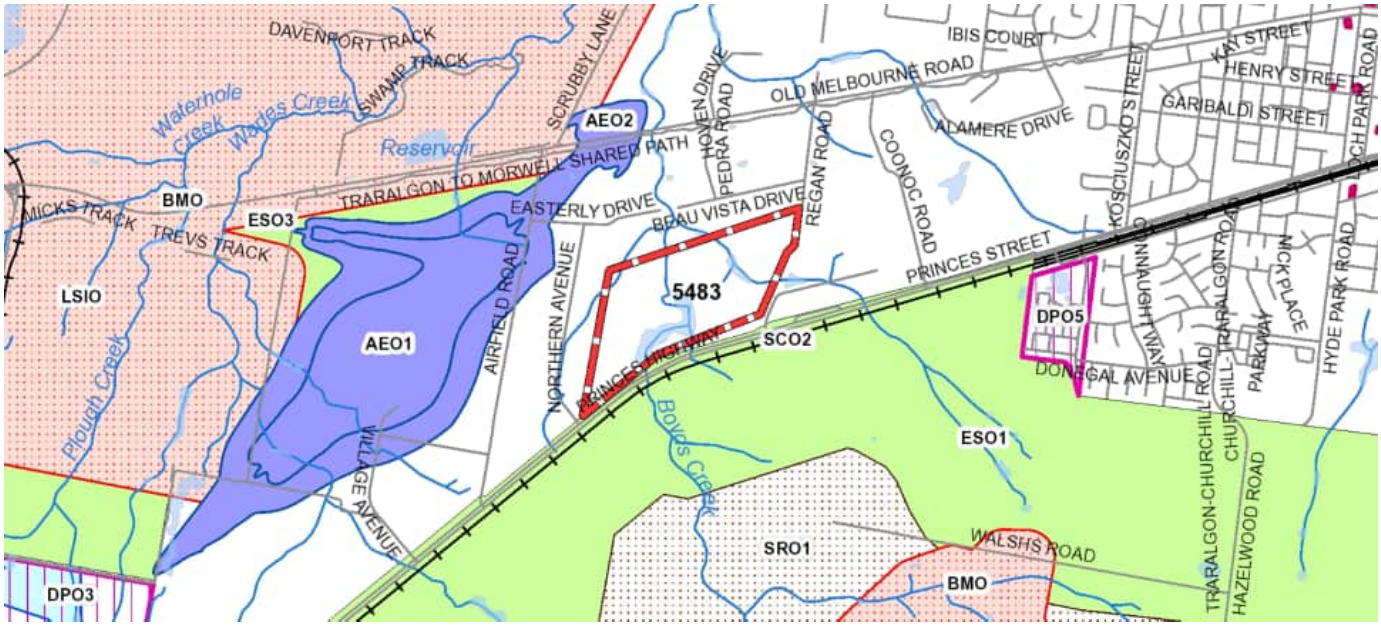
BUSHFIRE MANAGEMENT OVERLAY (BMO)
DEVELOPMENT PLAN OVERLAY (DPO)
ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO)
FLOODWAY OVERLAY (FO)
HERITAGE OVERLAY (HO)
LAND SUBJECT TO INUNDATION OVERLAY (LSIO)
PUBLIC ACQUISITION OVERLAY (PAO)
SPECIFIC CONTROLS OVERLAY (SCO)
STATE RESOURCE OVERLAY (SRO)



AEO - Airport Environs
BMO - Bushfire Management
DPO - Development Plan
ESO - Environmental Significance
FO - Floodway
HO - Heritage
LSIO - Land Subject to Inundation
PAO - Public Acquisition
SCO - Specific Controls
SRO - State Resource
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Water area
Water course

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PLANNING PROPERTY REPORT

Environment, Land, Water and Planning

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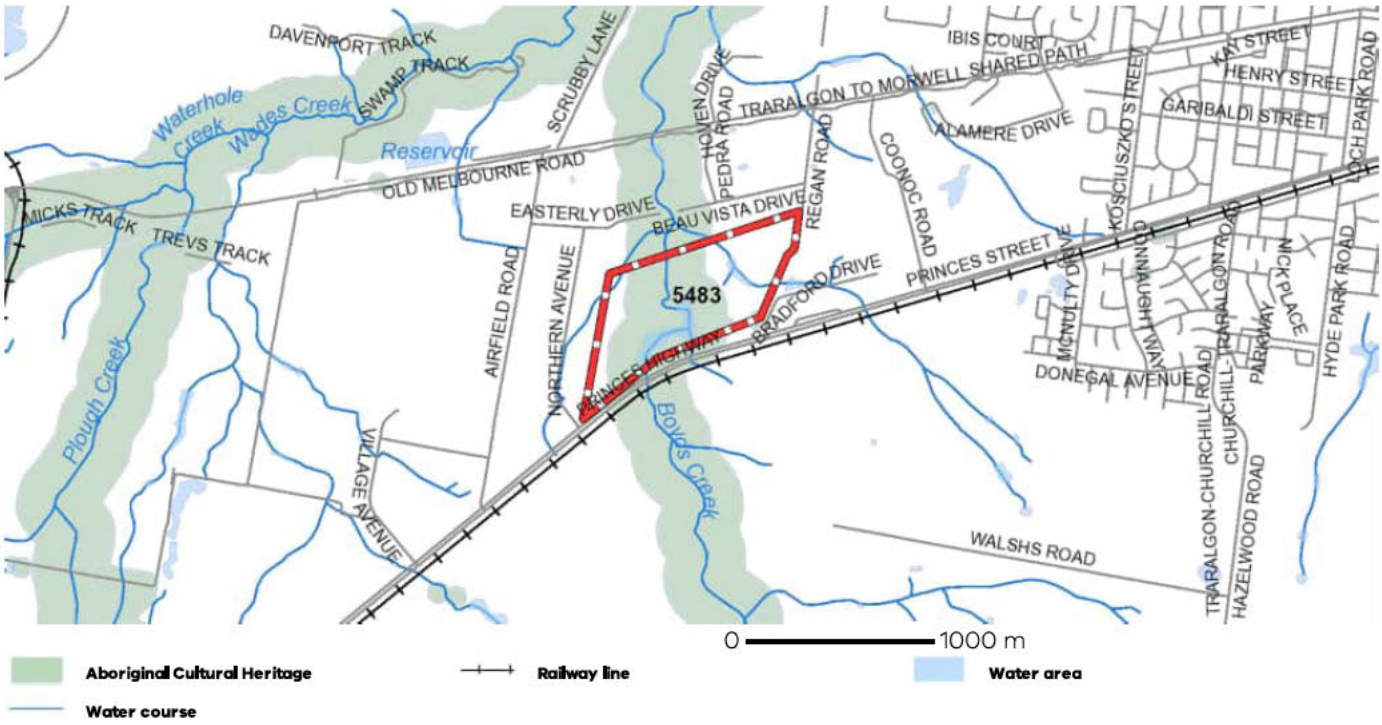

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PLANNING PROPERTY REPORT

Further Planning Information

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PLANNING PROPERTY REPORT

Designated Bushfire Prone Areas

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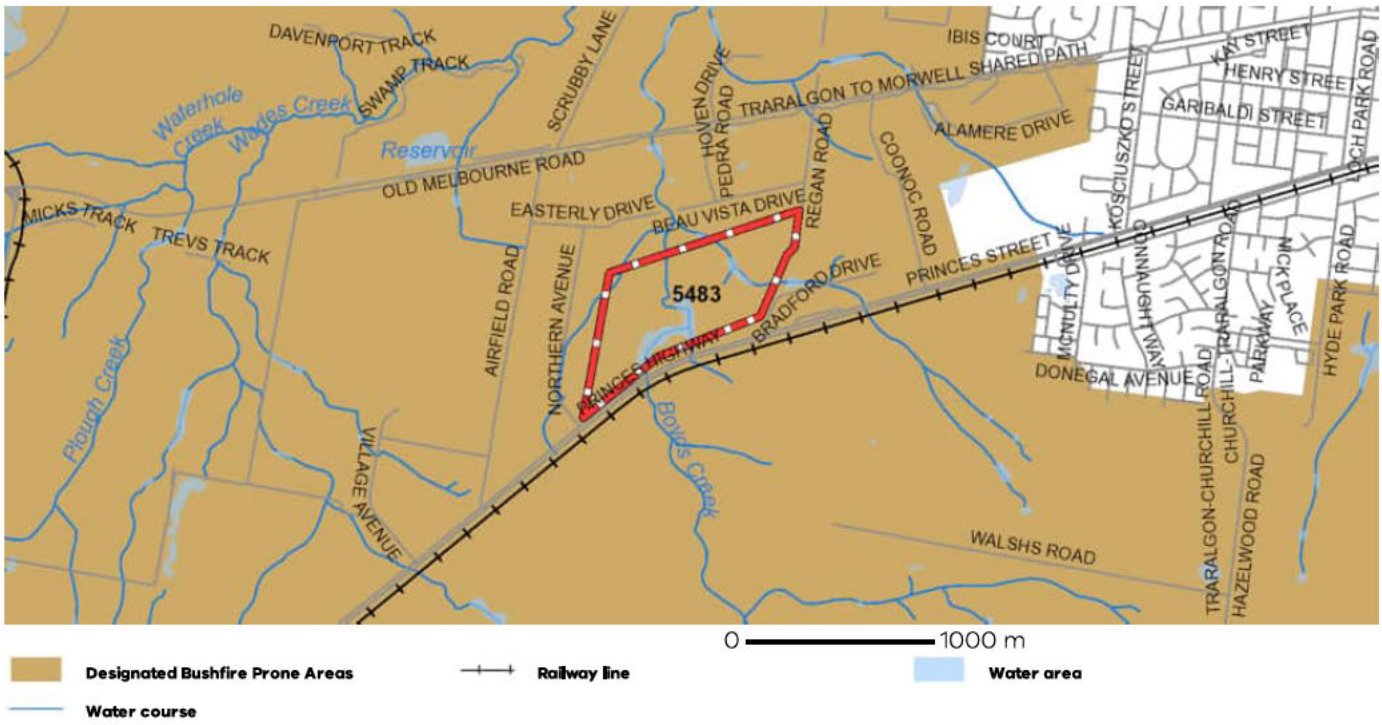

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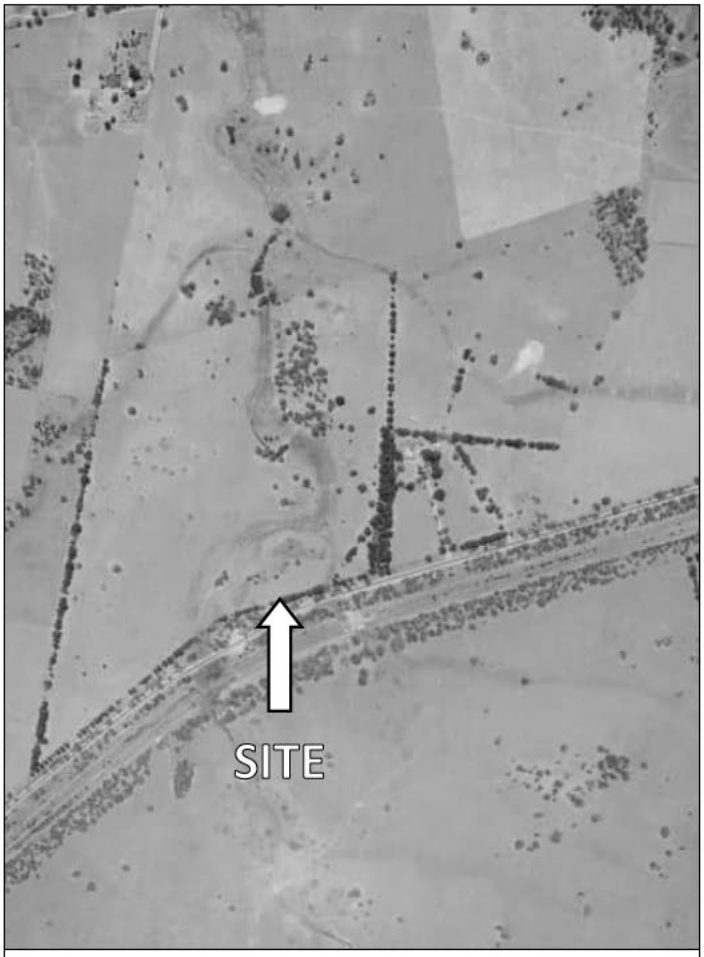
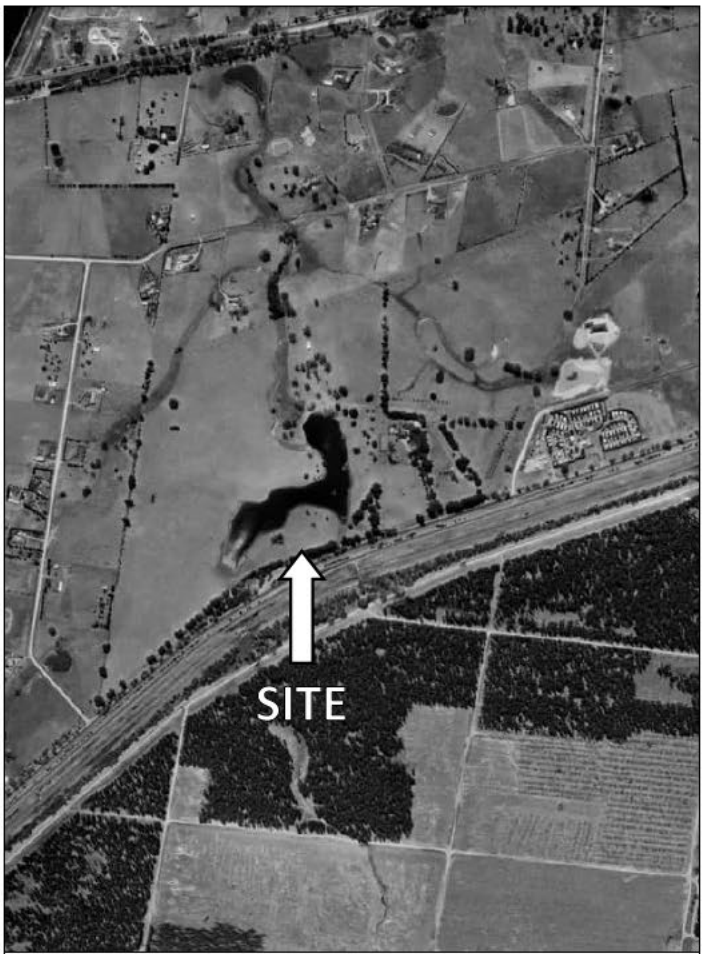
APPENDIX B AERIAL PHOTOGRAPHS

1945



1955

1970



1987

2012

2015

2018

2022

APPENDIX C SITE PHOTOGRAPHS

Photograph 1: View of the large shed in the homestead area onsite. The concrete floor appeared to be in good condition.

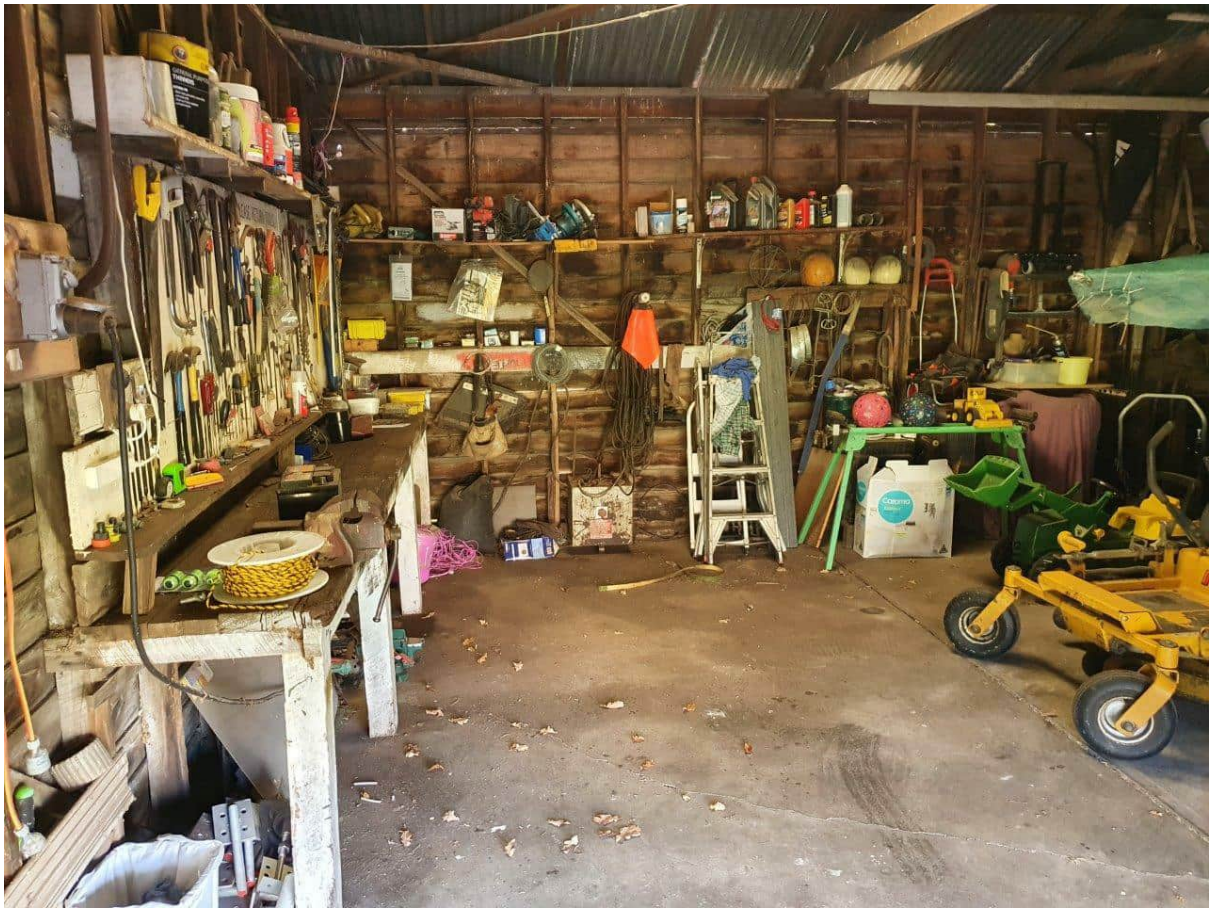
Photograph 2: View of a small shed in the homestead area. Potential lead paint was observed on the shed exterior.

Photograph 3: View of a small shed in the homestead area. Potential lead paint was observed on the shed exterior. The main residence appeared to be painted with non-leaded paint.

Photograph 4: View inside the small shed in the homestead area. The shed contained old furniture and small packaged quantities of household chemicals.

Photograph 5: View of a gazebo and tennis court in the homestead area of the site. Potential lead paint was observed on the gazebo exterior.

Photograph 6: View of another small shed in the homestead area onsite. Potential lead paint was observed on the shed exterior.



Photograph 7: View inside one of the small sheds onsite. A workshop area was observed. The shed had a concrete floor. Oil stains were observed.

Photograph 8: View of one of the small sheds onsite. Household furniture was observed. Farm machinery was observed adjacent to the shed. A slight hydrocarbon odour was observed at this location.

Photograph 9: View of the southeast portion of site, taken facing east. Fill material was observed in the area. Small stockpiles were observed along the northern edge of the filling.

Photograph 10: View of fill material observed at surface in the northeast portion of the site, adjacent to a former dam (BH01). Bullets were observed at surface in the area with fill material.

Photograph 11: View of bullets observed within sandy clay fill in the area adjacent to the former dam in the northeast portion of site (adjacent to BH01).

Photograph 12: View of the northern portion of site, taken from SS01 facing west.

Photograph 13: View of Boyds Creek in the central portion of the site, taken facing north.

Photograph 14: View of the southwest portion of site, taken facing east. A large dam is present in the southern portion of site.

Photograph 15: View of a stockpile of rubble (concrete, bricks, cement sheet (non-ACM?)) in the homestead area of site.

Photograph 16: View of TP01. Trace fill inclusions were observed within test pits within the filled area.

Photograph 17: View of TP02. Trace fill inclusions were observed within test pits within the filled area.

Photograph 18: View of TP03. Trace fill inclusions were observed within test pits within the filled area.

Photograph 19: View of TP04. Trace fill inclusions were observed within test pits within the filled area.

Photograph 20: View of TP05. Trace fill inclusions were observed within test pits within the filled area.

Photograph 21: View of TP06. Trace fill inclusions were observed within test pits within the filled area.

Photograph 22: View of TP07. Trace fill inclusions were observed within test pits within the filled area.

Photograph 23: View of TP08. Trace fill inclusions were observed within test pits within the filled area.

Photograph 24: View of TP09. Trace fill inclusions were observed within test pits within the filled area.

APPENDIX D BOREHOLE, TEST PIT AND SURFACE SAMPLE LOGS

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BH01

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Borehole depth (m):	0.8
Driller:	Beveridge Williams			Borehole diameter (mm):	80
Drilling equipment:	Hand Auger				

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL (CL) - sandy clay; orange brown; sand: medium to coarse grained, sub-angular, gap-graded; with bullet tips; no odour; moist	FILL	M	0.0	1	BH01/0.0-0.1
				From 0.4 m: moist		M			
		0.5		ML - clayey SILT; low plasticity; brown; firm; with rootlets; no odour; moist	NATURAL	M	0.0	0	BH01/0.5-0.6
							0.0	0	BH01/0.7-0.8
		1.0		End of borehole at 0.8 m					

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BH02

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]
Date started:	21/06/2022	Date completed: 21/06/2022	Borehole depth (m): 0.6
Driller:	Beveridge Williams		Borehole diameter (mm): 80
Drilling equipment:	Hand Auger		

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL (SC) - clayey sand; medium to coarse grained, sub-rounded; some gravel: medium to coarse grained, sub-rounded; quartz; organic odour; moist	FILL	M	0.0	0	BH02/0.0-0.1
		0.5		ML - clayey SILT; low plasticity; brown; firm; no odour; moist	NATURAL	M	0.0	0	BH02/0.4-0.5
		1.0		End of borehole at 0.6 m					

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BH03

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]
Date started:	21/06/2022	Date completed: 21/06/2022	Borehole depth (m): 0.6
Driller:	Beveridge Williams		Borehole diameter (mm): 80
Drilling equipment:	Hand Auger		

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL (GP) - sandy gravel; medium grained, sub-angular; grey; sand: fine to coarse-grained, sub-angular, gap-graded; no odour; moist	FILL	M	0.0	0	BH03/0.0-0.1
				FILL (CL) - sandy clay; brown mottled orange; sand: medium to coarse grained, sub-angular, gap-graded; no odour; moist		M	0.0	0	BH03/0.2-0.3
		0.5		ML - clayey SILT; low plasticity; brown; firm; no odour; moist	NATURAL	M	0.0	0	BH03/0.4-0.5
		1.0		End of borehole at 0.6 m					

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BH04

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]
Date started:	21/06/2022	Date completed: 21/06/2022	Borehole depth (m): 0.5
Driller:	Beveridge Williams		Borehole diameter (mm): 80
Drilling equipment:	Hand Auger		

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL - silty sand; medium to coarse grained, sub-angular, gap-graded; brown; no odour; moist	FILL	M	0.0	0	BH04/0.0-0.1 BH04/0.0-0.1A 220621-S-D03 ▲
		0.5		ML - clayey SILT; low plasticity; brown; firm; no odour; moist	NATURAL	M	0.0	0	BH04/0.3-0.4
		1.0		End of borehole at 0.5 m					

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BH05

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Borehole depth (m):	0.6
Driller:	Beveridge Williams			Borehole diameter (mm):	80
Drilling equipment:	Hand Auger				

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL - silty sand; medium to coarse grained, sub-angular, gap-graded; brown; slight hydrocarbon odour; moist	FILL	M	0.0	1	BH05/0.0-0.1
		0.5		ML - clayey SILT; low plasticity; brown mottled orange; firm; no odour; moist	NATURAL	M	0.0	0	BH05/0.2-0.3
							0.0	0	BH05/0.5-0.6
		1.0		End of borehole at 0.6 m					

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BH06

Soil Bore

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]
Date started:	21/06/2022	Date completed: 21/06/2022	Borehole depth (m): 0.6
Driller:	Beveridge Williams		Borehole diameter (mm): 80
Drilling equipment:	Hand Auger		

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed			FILL (SP) - gravelly sand; fine to medium grained, sub-angular, gap-graded; brown; gravel: medium grained, sub-angular, basalt crushed rock; with rootlets; no odour; moist	FILL	M	0.0	0	BH06/0.0-0.1
				CL - sandy CLAY; brown mottled orange; sand: fine to medium grained, sub-angular, gap-graded; firm; no odour; moist	NATURAL	M	0.0	0	BH06/0.1-0.2
				From 0.3 m: no orange mottling					
		0.5		From 0.5 m: clayey sand; pale brown			0.0	0	BH06/0.5-0.6
				End of borehole at 0.6 m					
		1.0							

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TP01

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	3.2
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty clay; low plasticity; grey; loose; organic odour; dry	FILL	D	0.0	0	TP01/0.0-0.1
				FILL (SM) - silty sand; low plasticity; orange brown; loose; organic odour; dry		D	0.0	0	TP01/0.7-0.8 ▲
		1.0		FILL (CL) - silty clay; low plasticity; grey brown; trace fill inclusions (bitumen, PVC, concrete, burnt roots); loose; organic odour; dry		D	0.0	0	TP01/1.0-1.1
		1.5							
		2.0					0.0	0	TP01/2.0-2.1 ▲
		2.5							
		3.0		CL - silty CLAY; low plasticity; black; trace burnt wood; no odour; wet	NATURAL	W	0.0	0	TP01/3.0-3.1 ▲
				CL - silty CLAY; low plasticity; green; no odour; wet		W	0.0	0	TP01/3.1-3.2
		3.5		End of test pit at 3.2 m					

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TP02

Test pit

Client:	Stable Engineering Services			Project number:	2101947
Project:	Preliminary Contamination Assessment			Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon			Checked by:	[redacted]
Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	1.0
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty clay; medium plasticity; dark brown; with sand (fine grained, sub-angular, gap-graded); some gravel (sub-rounded); with rootlets; loose; organic odour; moist	FILL	M	0.0	0	TP02/0.0-0.1 ▲
							0.0	0	TP02/0.5-0.6
		1.0		CL - silty CLAY; green mottled orange; with gravel (sub-rounded); firm; with rootlets; organic odour; dry	NATURAL	D	0.0	0	TP02/0.9-1.0 ▲
		1.5		End of test pit at 1.0 m					
		2.0							
		2.5							
		3.0							
		3.5							

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TP03

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	3.1
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty clay; dark grey; with sand (coarse grained, sub-rounded); with gravel (fine to coarse grained, sub-rounded); trace fill inclusions (PVC, bitumen, ACM); no odour; moist	FILL	M	0.0	1	TP03/0.0-0.1 ▲ TP03-AS01 ▲
		1.0		From 0.8 m: grey; fill inclusions (brick, asphalt, plastic)			0.0	1	TP03/1.0-1.1 ▲
		1.5		FILL (CH) - clay; high plasticity; grey mottled orange; trace fill inclusions (brick, asphalt, plastic); firm; no odour; moist		M			
		2.0					0.0	1	TP03/2.0-2.1 ▲
		2.5		CL - CLAY; low plasticity; grey; soft; no odour; moist	NATURAL	M			
		3.0		CL - silty CLAY; low plasticity; black; trace burnt wood; no odour; wet		W	0.0	0	TP03/3.0-3.1 ▲
				End of test pit at 3.1 m					
		3.5							

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TP04

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	2.7
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty CLAY; low plasticity; brown mottled orange; with sand (coarse grained, sub-rounded); with gravel (fine to coarse grained, sub-rounded); trace fill inclusions (plastic, bricks; concrete); no odour; moist	FILL	M	0.0	0	TP04/0.0-0.1 TP04/0.0-0.1A 220621-S-D02 ▲
							0.0	0	TP04/0.5-0.6
		1.0		FILL (CL) - clay; low plasticity; orange brown; with gravel (fine-grained); trace fill inclusions (wood, brick, asphalt, plastic); firm; no odour; moist		M	0.0	1	TP04/1.0-1.1 ▲
		1.5							
		2.0							
				CL - CLAY; low plasticity; dark grey; soft; no odour; moist	NATURAL	M	0.0	0	TP04/2.2-2.3 ▲
		2.5		CL - silty CLAY; low plasticity; orange brown; no odour; moist		M			
							0.0	0	TP04/2.5-2.6
		3.0		End of test pit at 2.7 m					
		3.5							

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TP05

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	0.8
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - sandy clay; brown mottled orange and yellow; sand: coarse grained, sub-rounded; trace fill inclusions (brick, concrete, plastic); no odour; moist	FILL	M	0.0	0	TP05/0.0-0.1
				CL - silty CLAY; dark grey; loose; no odour; dry	NATURAL	D	0.0	0	TP05/0.5-0.6
				CL - sandy CLAY; low plasticity; grey mottled orange; no odour; moist		M	0.0	0	TP05/0.7-0.8
		1.0		End of test pit at 0.8 m					
		1.5							
		2.0							
		2.5							
		3.0							
		3.5							

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TP06

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]
Date started:	21/06/2022	Date completed: 21/06/2022	Test pit depth (m): 3.0
Operator:	KPH		Test pit width (m): 0.6
Machinery:	8 t Excavator		Test pit length (m): 3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty clay; brown; trace fill inclusions (brick, concrete, ACM); no odour; moist	FILL	M	0.0	0	TP06/0.0-0.1 ▲ TP06-AS01 ▲
		1.0					0.0	0	TP06/0.5-0.6
		1.5		FILL (CL) - clay; low plasticity; brown mottled orange and grey; trace fill inclusions (bitumen, brick, PVC); no odour; moist		M	0.0	0	TP06/1.0-1.1 ▲
		2.0					0.0	0	TP06/2.0-2.1 ▲
		2.5							
		3.0		CL - sandy CLAY; low plasticity; grey mottled orange; no odour; moist	NATURAL	M	0.0	0	TP06/2.9-3.0
		3.5		End of test pit at 3.0 m					

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TP07

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	2.5
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.0		FILL (CL) - silty clay; brown; with rootlets; no odour; moist	FILL	M	0.0	0	TP07/0.0-0.1 ▲
		0.5		FILL (SM) - silty sand; low plasticity; whitish grey; loose; no odour; moist		M	0.0	0	TP07/0.5-0.6
		1.0		FILL (CL) - silty clay; low plasticity; brown; trace fill inclusions (plastic, brick, concrete); no odour; moist		M	0.0	0	TP07/1.0-1.1 ▲
		1.5							
		2.0							
		2.2		CL - silty CLAY; low plasticity; black; no odour; moist	NATURAL	M	0.0	0	TP07/2.2-2.3
		2.5		End of test pit at 2.5 m					
		3.0							
		3.5							

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TP08

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	1.6
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.5		FILL (CL) - silty clay; low plasticity; pale grey / brown; with sand (fine grained, sub-angular, gap-graded); trace fill inclusions (plastic, concrete); no odour; moist	FILL	M	0.0	0	TP08/0.0-0.1
							0.0	0	TP08/0.5-0.6
		1.0					0.0	0	TP08/1.0-1.1
		1.5		CL - sandy CLAY; low plasticity; grey mottled orange; no odour; moist	NATURAL	M	0.0	0	TP08/1.5-1.6
		2.0		End of test pit at 1.6 m					
		2.5							
		3.0							
		3.5							

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TP09

Test pit

Client:	Stable Property Services	Project number:	2101947
Project:	Preliminary Contamination Assessment	Logged/prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Date started:	21/06/2022	Date completed:	21/06/2022	Test pit depth (m):	2.3
Operator:	KPH			Test pit width (m):	0.6
Machinery:	8 t Excavator			Test pit length (m):	3.0

Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
8 t Excavator	None observed	0.0		FILL (CL) - silty clay; low plasticity; grey; loose; trace fill inclusions (plastic); organic odour; moist	FILL	M	0.0	0	TP09/0.0-0.1 TP09/0.0-0.1A 220621-S-D04
		0.5		FILL (CL) - silty clay; low plasticity; pale brown; trace fill inclusions (ceramic, brick, concrete, wire); organic odour; moist		M	0.0	0	TP09/0.5-0.6
		1.0		FILL (SM) - silty sand; low plasticity; whitish grey; loose; no odour; moist		M	0.0	0	TP09/1.0-1.1
		1.5							
		2.0		FILL (CL) - silty clay; low plasticity; brown; trace fill inclusions (plastic, brick, concrete); no odour; moist		M	0.0	0	TP09/2.0-2.1
				CL - silty CLAY; low plasticity; black; no odour; moist	NATURAL	M	0.0	0	TP09/2.2-2.3
		2.5		End of test pit at 2.3 m					
		3.0							
		3.5							

Beveridge Williams
development & environment consultants

Soil Sample Descriptions

Job no:	2101947

Client:	Stable Property Group	Logged by:	[redacted]
Project:	Preliminary Contamination Assessment	Prepared by:	[redacted]
Location:	5483 & 5495 Princes Hwy, Traralgon	Checked by:	[redacted]

Sample ID	Date	Duplicate/split	Depth (m)	PID (ppm)	CR	Sample description	Sample Analysed
220621-SS01	21/06/2022	220621-SS01A, 220621-S-D01	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS02	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS03	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS04	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS05	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS06	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS07	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS08	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS09	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS10	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS11	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS12	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS13	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS14	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS15	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS16	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS17	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS18	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS19	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS20	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS21	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS22	21/06/2022	-	0.0-0.1	0.0	1	FILL - sandy clay; pale brown; sand: fine to coarse grained, sub-rounded, gap-graded; soft; no odour; moist	▲
220621-SS23	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS24	21/06/2022	-	0.0-0.1	0.0	1	FILL - sandy clay; pale brown; sand: fine to coarse grained, sub-rounded, gap-graded; soft; no odour; moist	▲
220621-SS25	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS26	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS27	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS28	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲
220621-SS29	21/06/2022	-	0.0-0.1	0.0	0	ML - sandy SILT; dark brown; sand: fine to medium grained, sub-angular, gap-graded; no odour; moist	▲

APPENDIX E TABULATED SOIL RESULTS

Job Ref: 2101947
Address: 5495 Princes Hwy, Traralgon
Client: Stable Property Services

Table 01
Chemical Testing Results
Soil

			Metals																						
			Antimony	Arsenic		Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Iron	Lead		Manganese	Mercury	Molybdenum	Nickel		Selenium	Silver	Tin	Vanadium	Zinc
			mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			10	2	0.01	10	2	10	0.4	1	5	5	5	20	5	0.01	5	0.1	5	5	0.01	2	2	10	10	5
EPA Vic IWRG1828.2 Category B upper limit			300	2,000	4	25,000	400	60,000	400	2,000			20,000		6,000	4		300	4,000	12,000	8	40,000	720			140,000
EPA Vic IWRG1828.2 Category C upper limit			75	500	1	6,250	100	15,000	100	500			5,000		1,500	1		75	1,000	3,000	2	10,000	180			35,000
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit			75	500	0.5	6,250	100	15,000	100	500			5,000		1,500	0.5		75	1,000	3,000	1	10,000	180			35,000
EPA Vic IWRG1828.2 Fill material upper limit				20					3	1			100		300			1	40	60		10	10	50		200
NEPM Amendment 2013 EIL (urb res/public open space) - aged				100							190		230		1,100					350						990
NEPM Amendment 2013 EIL (urb res/public open space) - fresh				50							75		120		270					120						380
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1A(1) HILs Res A Soil				100			60	4,500	20	100		100	6,000		300		3,800	40		400		200				7,400
NEPM 2013 Table 1A(1) HILs Res B Soil				500			90	40,000	150	500		600	30,000		1,200		14,000	120		1,200		1,400				60,000
NEPM 2013 Table 1A(1) HILs Rec C Soil				300			90	20,000	90	300		300	17,000		600		19,000	80		1,200		700				30,000
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				3,000			500	300,000	900	3,600		4,000	240,000		1,500		60,000	730		6,000		10,000				400,000
Field ID	Date	Depth																								
220621-SS01	21/06/2022	0 - 0.1	<10	<2	-	18	<2	<10	<0.4	<1	<5	<5	<5	3,400	<5	-	31	<0.1	<5	<5	-	<2	<2	<10	<10	<5
220621-SS02	21/06/2022	0 - 0.1	<10	<2	-	73	<2	<10	<0.4	-	10	<5	5.9	5,600	8.3	-	78	<0.1	<5	<5	-	<2	<2	<10	19	7.6
220621-SS03	21/06/2022	0 - 0.1	<10	<2	-	47	<2	<10	<0.4	-	5.6	<5	<5	7,000	6.4	-	61	<0.1	<5	<5	-	<2	<2	<10	20	7.4
220621-SS04	21/06/2022	0 - 0.1	<10	<2	-	34	<2	11	<0.4	-	5.1	<5	5.8	5,000	6.3	-	29	<0.1	<5	<5	-	<2	<2	<10	18	<5
220621-SS05	21/06/2022	0 - 0.1	<10	<2	-	34	<2	<10	<0.4	-	<5	<5	7.1	3,000	<5	-	52	<0.1	<5	<5	-	<2	<2	<10	<10	5.1
220621-SS06	21/06/2022	0 - 0.1	<10	<2	-	83	<2	11	<0.4	-	6.9	<5	5.4	4,600	9.5	-	120	<0.1	<5	<5	-	<2	<2	<10	11	39
220621-SS07	21/06/2022	0 - 0.1	<10	<2	-	31	<2	<10	<0.4	-	5.1	<5	7.2	4,200	<5	-	61	<0.1	<5	<5	-	<2	<2	<10	14	6.4
220621-SS08	21/06/2022	0 - 0.1	<10	<2	-	36	<2	<10	<0.4	-	<5	<5	<5	4,000	5.2	-	57	<0.1	<5	<5	-	<2	<2	<10	15	6.1
220621-SS09	21/06/2022	0 - 0.1	<10	<2	-	49	<2	<10	<0.4	-	7.2	<5	8.8	4,500	6.6	-	100	<0.1	<5	<5	-	<2	<2	<10	18	10
220621-SS10	21/06/2022	0 - 0.1	<10	<2	-	31	<2	12	<0.4	-	<5	<5	9.0	3,100	5.3	-	43	<0.1	<5	<5	-	<2	<2	<10	12	<5
220621-SS11	21/06/2022	0 - 0.1	<10	<2	-	26	<2	<10	<0.4	-	8.5	<5	<5	8,800	6.3	-	58	<0.1	<5	<5	-	<2	<2	<10	26	5.8
220621-SS12	21/06/2022	0 - 0.1	<10	<2	-	47	<2	<10	<0.4	-	8.5	<5	6.7	7,200	11	-	150	<0.1	<5	<5	-	<2	<2	<10	15	27
220621-SS13	21/06/2022	0 - 0.1	<10	2.9	-	130	<2	16	0.4	-	7.8	<5	17	6,800	29	-	340	<0.1	<5	5.5	-	<2	<2	<10	17	92
220621-SS14	21/06/2022	0 - 0.1	<10	<2	-	26	<2	<10	<0.4	-	<5	<5	11	3,200	<5	-	77	<0.1	<5	<5	-	<2	<2	<10	11	7.1
220621-SS15	21/06/2022	0 - 0.1	<10	<2	-	38	<2	<10	<0.4	-	<5	<5	12	5,500	6.0	-	89	<0.1	<5	<5	-	<2	<2	<10	16	8.1
220621-SS16	21/06/2022	0 - 0.1	<10	<2	-	35	<2	<10	<0.4	-	<5	<5	<5	3,500	5.8	-	26	<0.1	<5	<5	-	<2	<2	<10	<10	5.5
220621-SS17	21/06/2022	0 - 0.1	<10	<2	-	95	<2	15	<0.4	-	7.0	<5	9.3	10,000	35	-	170	0.1	<5	<5	-	<2	<2	<10	17	37
220621-SS18	21/06/2022	0 - 0.1	<10	<2	-	22	<2	<10	<0.4	-	5.2	<5	<5	5,100	<5	-	48	<0.1	<5	<5	-	<2	<2	<10	22	<5
220621-SS19	21/06/2022	0 - 0.1	<10	<2	-	61	<2	<10	<0.4	-	6.6	<5	6.9	5,000	7.6	-	130	<0.1	<5	<5	-	<2	<2	<10	18	7.4
220621-SS20	21/06/2022	0 - 0.1	<10	<2	-	29	<2	<10	<0.4	-	8.3	<5	5.8	5,600	6.6	-	49	<0.1	<5	<5	-	<2	<2	<10	23	5.5
220621-SS21	21/06/2022	0 - 0.1	<10	<2	-	75	<2	<10	<0.4	-	24	6.4	5.9	18,000	9.0	-	45	<0.1	<5	12	-	<2	<2	<10	40	15
220621-SS22	21/06/2022	0 - 0.1	<10	<2	-	170	<2	<10	<0.4	-	6.4	<5	<5	7,700	<5	-	8.8	<0.1	<5	<5	-	<2	<2	<10	15	6.5
220621-SS23	21/06/2022	0 - 0.1	<10	<2	-	45	<2	<10	<0.4	-	<5	<5	<5	4,800	6.3	-	49	<0.1	<5	<5	-	<2	<2	<10	14	6.1
220621-SS24	21/06/2022	0 - 0.1	<10	2.6	-	180	<2	<10	<0.4	-	6.5	<5	9.6	13,000	24	-	13	<0.1	<5	<5	-	<2	<2	<10	28	<5
220621-SS25	21/06/2022	0 - 0.1	<10	4.5	-	63	<2	<10	<0.4	-	29	9.6	6.7	34,000	11	-	80	<0.1	<5	11	-	<2	<2	<10	66	18
220621-SS26	21/06/2022	0 - 0.1	<10	<2	-	79	<2	<10	<0.4	-	15	<5	6.4	15,000	8.5	-	85	<0.1	<5	5.5	-	<2	<2	<10	35	13
220621-SS27	21/06/2022	0 - 0.1	<10	14	-	29	<2	<10	<0.4	-	20	<5	<5	47,000	12	-	62	<0.1	<5	<5	-	<2	<2	<10	100	6.4
220621-SS28	21/06/2022	0 - 0.1	<10	<2	-	30	<2	<10	<0.4	-	5.4	<5	<5	5,100	8.5	-	35	<0.1	<5	<5	-	<2	<2	<10	18	6.8
220621-SS29	21/06/2022	0 - 0.1	<10	<2	-	48	<2	12	<0.4	-	7.6	<5	5.4	5,800	9.3	-	170	<0.1	<5	<5	-	<2	<2	<10	17	17

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Metals																						
			Antimony	Arsenic		Barium	Beryllium	Boron	Cadmium	Chromium (hexavalent)	Chromium (III+VI)	Cobalt	Copper	Iron	Lead		Manganese	Mercury	Molybdenum	Nickel		Selenium	Silver	Tin	Vanadium	Zinc
			mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			10	2	0.01	10	2	10	0.4	1	5	5	5	20	5	0.01	5	0.1	5	5	0.01	2	2	10	10	5
EPA Vic IWRG1828.2 Category B upper limit			300	2,000	4	25,000	400	60,000	400	2,000			20,000		6,000	4		300	4,000	12,000	8	40,000	720			140,000
EPA Vic IWRG1828.2 Category C upper limit			75	500	1	6,250	100	15,000	100	500			5,000		1,500	1		75	1,000	3,000	2	10,000	180			35,000
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit			75	500	0.5	6,250	100	15,000	100	500			5,000		1,500	0.5		75	1,000	3,000	1	10,000	180			35,000
EPA Vic IWRG1828.2 Fill material upper limit				20					3	1			100		300			1	40	60		10	10	50		200
NEPM Amendment 2013 EIL (urb res/public open space) - aged				100							190		230		1,100					350						990
NEPM Amendment 2013 EIL (urb res/public open space) - fresh				50							75		120		270					120						380
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1A(1) HILs Res A Soil				100			60	4,500	20	100		100	6,000		300		3,800	40		400		200				7,400
NEPM 2013 Table 1A(1) HILs Res B Soil				500			90	40,000	150	500		600	30,000		1,200		14,000	120		1,200		1,400				60,000
NEPM 2013 Table 1A(1) HILs Rec C Soil				300			90	20,000	90	300		300	17,000		600		19,000	80		1,200		700				30,000
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				3,000			500	300,000	900	3,600		4,000	240,000		1,500		60,000	730		6,000		10,000				400,000
Field ID	Date	Depth																								
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	51	<2	-	91	<2	<10	<0.4	-	<5	<5	160	7,000	617	3.8	8.1	<0.1	<5	25	-	<2	<2	<10	16	<5
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	<10	<2	-	21	<2	<10	<0.4	-	<5	<5	<5	10,000	19	-	7.4	<0.1	<5	<5	-	<2	<2	<10	15	<5
BH02/0.0-0.1	21/06/2022	0 - 0.1	<10	2.4	-	51	<2	<10	<0.4	-	6.5	<5	7.9	5,900	26	-	98	<0.1	<5	6.0	-	<2	<2	<10	<10	70
BH03/0.0-0.1	21/06/2022	0 - 0.1	<10	2.4	-	95	<2	<10	<0.4	-	35	13	32	28,000	13	-	370	<0.1	<5	39	-	<2	<2	<10	33	140
BH04/0.0-0.1	21/06/2022	0 - 0.1	<10	2.5	-	45	<2	13	<0.4	-	6.6	<5	12	6,300	88	-	110	<0.1	<5	<5	-	<2	<2	<10	<10	330
BH05/0.0-0.1	21/06/2022	0 - 0.1	<10	28	0.01	97	<2	<10	1.5	<1	23	11	28	18,000	150	-	330	<0.1	<5	45	-	<2	<2	<10	29	1,400
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88
BH06/0.0-0.1	21/06/2022	0 - 1	<10	5.8	-	130	<2	<10	<0.4	<1	48	20	36	37,000	18	-	510	<0.1	<5	69	0.01	<2	<2	<10	34	170
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	<10	3.5	-	46	<2	<10	<0.4	-	26	5.7	5.6	26,000	10	-	87	<0.1	<5	11	-	<2	<2	<10	54	9.2
TP01/2.0-2.1	21/06/2022	2 - 2.1	<10	<2	-	51	<2	<10	<0.4	<1	27	5.6	9.2	20,000	9.1	-	120	<0.1	<5	12	-	<2	<2	<10	53	15
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	<10	3.4	-	71	<2	<10	<0.4	-	16	5.6	13	17,000	28	-	190	<0.1	<5	10	-	<2	<2	<10	45	55
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	<10	2.3	-	85	<2	<10	<0.4	-	41	23	36	40,000	<5	-	570	<0.1	<5	67	-	<2	<2	<10	43	57
TP03/1.0-1.1	21/06/2022	1 - 1.1	<10	3.2	-	92	<2	<10	<0.4	-	34	18	26	33,000	11	-	320	<0.1	<5	38	-	<2	<2	<10	61	43
TP03/2.0-2.1	21/06/2022	2 - 2.1	<10	3.7	-	49	<2	<10	<0.4	-	24	<5	<5	21,000	10	-	41	<0.1	<5	6.1	-	<2	<2	<10	51	7.4
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	<10	8.9	-	69	<2	<10	<0.4	-	30	9.3	11	43,000	23	-	120	<0.1	<5	15	-	<2	<2	<10	84	32
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	<10	8.8	-	72	2.1	<10	<0.4	-	12	<5	<5	-	23	-	100	<0.1	<5	<5	-	<2	<2	<10	67	<5
TP05/0.0-0.1	21/06/2022	0 - 0.1	<10	2.9	-	48	<2	<10	<0.4	-	24	10	13	24,000	11	-	150	<0.1	<5	22	-	<2	<2	<10	40	30
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	<10	<2	-	14	<2	<10	<0.4	-	<5	<5	<5	6,800	5.6	-	8.9	<0.1	<5	<5	-	<2	<2	<10	16	<5
TP06/0.0-0.1	21/06/2022	0 - 0.1	<10	5.0	-	55	<2	<10	<0.4	-	10	<5	6.0	9,500	21	-	150	<0.1	<5	<5	-	<2	<2	<10	24	23
TP06/1.0-1.1	21/06/2022	1 - 1.1	<10	4.8	-	36	<2	<10	<0.4	-	21	<5	<5	27,000	12	-	63	<0.1	<5	5.8	-	<2	<2	<10	62	16
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	<10	<2	-	45	<2	<10	<0.4	-	8.4	<5	<5	5,700	6.1	-	180	<0.1	<5	<5	-	<2	<2	<10	18	10
TP07/1.0-1.1	21/06/2022	1 - 1.1	<10	2.6	-	87	<2	<10	<0.4	-	12	5.8	38	14,000	20	-	250	<0.1	<5	7.1	-	<2	<2	<10	29	40
TP09/0.0-0.1	21/06/2022	0 - 0.1	<10	<2	-	39	<2	<10	<0.4	-	20	5.6	6.1	22,000	7.9	-	80	<0.1	<5	8.5	-	<2	<2	<10	45	18
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<10	2.9	-	55	<2	<10	<0.4	<1	19	7.0	9.9	23,000	11	-	130	<0.1	<5	14	-	<2	<2	<10	43	20
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			PAH																			
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit							160															400
EPA Vic IWRG1828.2 Category C upper limit							40															100
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit							20															50
EPA Vic IWRG1828.2 Fill material upper limit							1															20
NEPM Amendment 2013 EIL (urb res/public open space) - aged																170						
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																170						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil							0.7															
NEPM 2013 Table 1A(1) HILs Res A Soil																			3	3	3	300
NEPM 2013 Table 1A(1) HILs Res B Soil																			4	4	4	400
NEPM 2013 Table 1A(1) HILs Rec C Soil																			3	3	3	300
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			40	40	40	4,000
Field ID	Date	Depth																				
220621-SS01	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS02	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS21	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
220621-SS29	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			PAH																			
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit							160															400
EPA Vic IWRG1828.2 Category C upper limit							40															100
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit							20															50
EPA Vic IWRG1828.2 Fill material upper limit							1															20
NEPM Amendment 2013 EIL (urb res/public open space) - aged																170						
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																170						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil							0.7															
NEPM 2013 Table 1A(1) HILs Res A Soil																			3	3	3	300
NEPM 2013 Table 1A(1) HILs Res B Soil																			4	4	4	400
NEPM 2013 Table 1A(1) HILs Rec C Soil																			3	3	3	300
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			40	40	40	4,000
Field ID	Date	Depth																				
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
BH04/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP02/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP02/0.9-1.0	21/06/2022	0.9 - 1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP03/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP03/3.0-3.1	21/06/2022	3 - 3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP04/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP04/1.0-1.1	21/06/2022	1 - 1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP06/1.0-1.1	21/06/2022	1 - 1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP06/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP07/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP07/1.0-1.1	21/06/2022	1 - 1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP09/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Organochlorine Pesticides																							
			Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
EPA Vic IWRG1828.2 Category B upper limit				50				4.8		16				50									4.8			
EPA Vic IWRG1828.2 Category C upper limit				10				1.2		4				50									1.2			
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				10				1.2		4				50									1.2			
EPA Vic IWRG1828.2 Fill material upper limit			1																							
NEPM Amendment 2013 EIL (urb res/public open space) - aged													180													
NEPM Amendment 2013 EIL (urb res/public open space) - fresh													180													
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																										
NEPM 2013 Table 1A(1) HILs Res A Soil								6		50				240					10				6		300	20
NEPM 2013 Table 1A(1) HILs Res B Soil								10		90				600					20				10		500	30
NEPM 2013 Table 1A(1) HILs Rec C Soil								10		70				400					20				10		400	30
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								45		530				3,600					100				50		2,500	160
Field ID	Date	Depth																								
220621-SS01	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS02	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
220621-SS29	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Organochlorine Pesticides																								
			Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	Chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
EPA Vic IWRG1828.2 Category B upper limit				50				4.8		16				50									4.8				
EPA Vic IWRG1828.2 Category C upper limit				10				1.2		4				50									1.2				
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				10				1.2		4				50									1.2				
EPA Vic IWRG1828.2 Fill material upper limit			1																								
NEPM Amendment 2013 EIL (urb res/public open space) - aged													180														
NEPM Amendment 2013 EIL (urb res/public open space) - fresh													180														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																											
NEPM 2013 Table 1A(1) HILs Res A Soil								6		50				240					10				6		300	20
NEPM 2013 Table 1A(1) HILs Res B Soil								10		90				600					20				10		500	30
NEPM 2013 Table 1A(1) HILs Rec C Soil								10		70				400					20				10		400	30
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								45		530				3,600					100				50		2,500	160
Field ID	Date	Depth																									
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP02/0.0-0.1	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP02/0.9-1.0	21/06/2022	0.9 - 1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP07/0.0-0.1	21/06/2022	0 - 0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			TPH					TRH								BTEX							MAH
			C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 (Sum of total)	C10-C16 (F2)	C10-C16 (F2 minus Naphthalene)	C16-C34 (F3)	C34-C40 (F4)	C6-C10 (F1 minus BTEX)	C10-C40 (Sum of total)	C6-C10 (F1)	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Styrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			20	20	50	50	50	50	50	100	100	20	100	20	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5
EPA Vic IWRG1828.2 Category B upper limit			2,600				40,000									16	12,800	4,800			9,600	480
EPA Vic IWRG1828.2 Category C upper limit			650				10,000									4	3,200	1,200			2,400	120
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit			325				5,000									4	3,200	1,200			2,400	120
EPA Vic IWRG1828.2 Fill material upper limit			100				1,000									1						
NEPM Amendment 2013 EIL (urb res/public open space) - aged															170							
NEPM Amendment 2013 EIL (urb res/public open space) - fresh															170							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								120	120	1300	5600	180				65	105	125			45	
NEPM 2013 Table 1A(1) HILs Res A Soil																						
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(1) HILs Rec C Soil																						
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																						
Field ID	Date	Depth																				
220621-SS01	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS21	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			TPH					TRH								BTEX							MAH
			C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 (Sum of total)	C10-C16 (F2)	C10-C16 (F2 minus Naphthalene)	C16-C34 (F3)	C34-C40 (F4)	C6-C10 (F1 minus BTEX)	C10-C40 (Sum of total)	C6-C10 (F1)	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Styrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			20	20	50	50	50	50	50	100	100	20	100	20	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5
EPA Vic IWRG1828.2 Category B upper limit			2,600				40,000									16	12,800	4,800			9,600	480
EPA Vic IWRG1828.2 Category C upper limit			650				10,000									4	3,200	1,200			2,400	120
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit			325				5,000									4	3,200	1,200			2,400	120
EPA Vic IWRG1828.2 Fill material upper limit			100				1,000									1						
NEPM Amendment 2013 EIL (urb res/public open space) - aged															170							
NEPM Amendment 2013 EIL (urb res/public open space) - fresh															170							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								120	120	1300	5600	180				65	105	125			45	
NEPM 2013 Table 1A(1) HILs Res A Soil																						
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(1) HILs Rec C Soil																						
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																						
Field ID	Date	Depth																				
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	97	57	154	<50	<50	130	<100	<20	130	<20	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<20	<20	<50	<50	<50	<50	<50	<100	<100	<20	<100	<20	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Halogenated Benzenes												Halogenated Hydrocarbons			
			1,2,3,4-tetrachlorobenzene	1,2,3,5-Tetrachlorobenzene	1,2,3-trichlorobenzene	1,2,4,5-tetrachlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3,5-Trichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Pentachlorobenzene	1,2-dibromoethane	Bromomethane	Iodomethane	Trichlorofluoromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit								24,000			640	4,800						
EPA Vic IWRG1828.2 Category C upper limit								6,000			160	1,200						
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit								6,000			160	1,200						
EPA Vic IWRG1828.2 Fill material upper limit																		
NEPM Amendment 2013 EIL (urb res/public open space) - aged																		
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																		
NEPM 2013 Table 1A(1) HILs Res A Soil													10					
NEPM 2013 Table 1A(1) HILs Res B Soil													15					
NEPM 2013 Table 1A(1) HILs Rec C Soil													10					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil													80					
Field ID	Date	Depth																
220621-SS01	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Halogenated Benzenes												Halogenated Hydrocarbons			
			1,2,3,4-tetrachlorobenzene	1,2,3,5-Tetrachlorobenzene	1,2,3-trichlorobenzene	1,2,4,5-tetrachlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3,5-Trichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Pentachlorobenzene	1,2-dibromoethane	Bromomethane	Iodomethane	Trichlorofluoromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit								24,000			640	4,800						
EPA Vic IWRG1828.2 Category C upper limit								6,000			160	1,200						
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit								6,000			160	1,200						
EPA Vic IWRG1828.2 Fill material upper limit																		
NEPM Amendment 2013 EIL (urb res/public open space) - aged																		
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																		
NEPM 2013 Table 1A(1) HILs Res A Soil													10					
NEPM 2013 Table 1A(1) HILs Res B Soil													15					
NEPM 2013 Table 1A(1) HILs Rec C Soil													10					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil													80					
Field ID	Date	Depth																
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Chlorinated Hydrocarbons																
			Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Benzal Chloride	Benzotrichloride	Benzyl chloride	Bromodichloromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit					1,600	4,800	210	190		480		48						
EPA Vic IWRG1828.2 Category C upper limit					400	1,200	52	48		120		12						
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit					400	1,200	52	48		120		12						
EPA Vic IWRG1828.2 Fill material upper limit			1															
NEPM Amendment 2013 EIL (urb res/public open space) - aged																		
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																		
NEPM 2013 Table 1A(1) HILs Res A Soil																		
NEPM 2013 Table 1A(1) HILs Res B Soil																		
NEPM 2013 Table 1A(1) HILs Rec C Soil																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																		
Field ID	Date	Depth																
220621-SS01	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Chlorinated Hydrocarbons																
			Chlorinated hydrocarbons EPAVic	Other chlorinated hydrocarbons EPAVic	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Benzal Chloride	Benzotrichloride	Benzyl chloride	Bromodichloromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit					1,600	4,800	210	190		480		48						
EPA Vic IWRG1828.2 Category C upper limit					400	1,200	52	48		120		12						
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit					400	1,200	52	48		120		12						
EPA Vic IWRG1828.2 Fill material upper limit			1															
NEPM Amendment 2013 EIL (urb res/public open space) - aged																		
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																		
NEPM 2013 Table 1A(1) HILs Res A Soil																		
NEPM 2013 Table 1A(1) HILs Res B Soil																		
NEPM 2013 Table 1A(1) HILs Rec C Soil																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																		
Field ID	Date	Depth																
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	<0.5	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Chlorinated Hydrocarbons																
			Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit				48		960					64	11			80	800			4.8
EPA Vic IWRG1828.2 Category C upper limit				12		240					16	2.8			20	200			1.2
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				12		240					16	2.8			20	200			1.2
EPA Vic IWRG1828.2 Fill material upper limit																			
NEPM Amendment 2013 EIL (urb res/public open space) - aged																			
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																			
NEPM 2013 Table 1A(1) HILs Res A Soil																			
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(1) HILs Rec C Soil																			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			
Field ID	Date	Depth																	
220621-SS01	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Chlorinated Hydrocarbons																
			Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA Vic IWRG1828.2 Category B upper limit				48		960					64	11			80	800			4.8
EPA Vic IWRG1828.2 Category C upper limit				12		240					16	2.8			20	200			1.2
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				12		240					16	2.8			20	200			1.2
EPA Vic IWRG1828.2 Fill material upper limit																			
NEPM Amendment 2013 EIL (urb res/public open space) - aged																			
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																			
NEPM 2013 Table 1A(1) HILs Res A Soil																			
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(1) HILs Rec C Soil																			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			
Field ID	Date	Depth																	
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Phenols																				Herbicid
			3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Dinoseb
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.4	1	1	0.5	0.5	5	0.5	0.5	0.2	1	5	20	1	5	0.5	1	10	0.5	1	20	20
EPA Vic IWRG1828.2 Category B upper limit				64,000	320	3,200				4,800							32,000					2,200	
EPA Vic IWRG1828.2 Category C upper limit				16,000	80	800				1,200							8,000					560	
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				16,000	80	800				1,200							8,000					560	
EPA Vic IWRG1828.2 Fill material upper limit																					1	60	
NEPM Amendment 2013 EIL (urb res/public open space) - aged																							
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1A(1) HILs Res A Soil																	400	100		3,000			
NEPM 2013 Table 1A(1) HILs Res B Soil																	4,700	130		45,000			
NEPM 2013 Table 1A(1) HILs Rec C Soil																	4,000	120		40,000			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	25,000	660		240,000			
Field ID	Date	Depth																					
220621-SS01	21/06/2022	0 - 0.1	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<20
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			Phenols																				Herbicid
			3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Tetrachlorophenols	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Dinoseb
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.4	1	1	0.5	0.5	5	0.5	0.5	0.2	1	5	20	1	5	0.5	1	10	0.5	1	20	20
EPA Vic IWRG1828.2 Category B upper limit				64,000	320	3,200				4,800							32,000					2,200	
EPA Vic IWRG1828.2 Category C upper limit				16,000	80	800				1,200							8,000					560	
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit				16,000	80	800				1,200							8,000					560	
EPA Vic IWRG1828.2 Fill material upper limit																					1	60	
NEPM Amendment 2013 EIL (urb res/public open space) - aged																							
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																							
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																							
NEPM 2013 Table 1A(1) HILs Res A Soil																	400	100		3,000			
NEPM 2013 Table 1A(1) HILs Res B Soil																	4,700	130		45,000			
NEPM 2013 Table 1A(1) HILs Rec C Soil																	4,000	120		40,000			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																	25,000	660		240,000			
Field ID	Date	Depth																					
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<20
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<20
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<20
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.4	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<5	<20	<1	<5	<0.5	<1	<10	<0.5	<1	<20	<20
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			PCBs								Inorganics							
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Conductivity (1:5 aqueous extract)	CEC	Cyanide Total	Fluoride		Moisture Content (dried @ 103°C)	pH (aqueous extract)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µS/cm	meq/100g	mg/kg	mg/kg	mg/L	%	-
EQL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10	0.05	5	100	0.2	1	0.1
EPA Vic IWRG1828.2 Category B upper limit										6			10,000	40,000	600		
EPA Vic IWRG1828.2 Category C upper limit										50			2,500	10,000	150		
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit										2			2,500	10,000	75		
EPA Vic IWRG1828.2 Fill material upper limit										2			50	450			
NEPM Amendment 2013 EIL (urb res/public open space) - aged																	
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1A(1) HILs Res A Soil										1							
NEPM 2013 Table 1A(1) HILs Res B Soil										1							
NEPM 2013 Table 1A(1) HILs Rec C Soil										1							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										7							
Field ID	Date	Depth															
220621-SS01	21/06/2022	0 - 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<5	470	<0.2	20	6.0
220621-SS02	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-
220621-SS03	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	26	-
220621-SS04	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
220621-SS05	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	18	-
220621-SS06	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
220621-SS07	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	26	-
220621-SS08	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
220621-SS09	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	24	-
220621-SS10	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
220621-SS11	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	24	-
220621-SS12	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-
220621-SS13	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	86	40	-	<100	-	37	-
220621-SS14	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
220621-SS15	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	29	-
220621-SS16	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-
220621-SS17	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	22	-
220621-SS18	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
220621-SS19	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-
220621-SS20	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	<100	-	23	-
220621-SS21	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
220621-SS22	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
220621-SS23	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-
220621-SS24	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
220621-SS25	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
220621-SS26	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
220621-SS27	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
220621-SS28	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-
220621-SS29	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 01
Chemical Testing Results
Soil

			PCBs								Inorganics							
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Conductivity (1:5 aqueous extract)	CEC	Cyanide Total	Fluoride		Moisture Content (dried @ 103°C)	pH (aqueous extract)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µS/cm	meq/100g	mg/kg	mg/kg	mg/L	%	-
EQL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	10	0.05	5	100	0.2	1	0.1
EPA Vic IWRG1828.2 Category B upper limit										6			10,000	40,000	600		
EPA Vic IWRG1828.2 Category C upper limit										50			2,500	10,000	150		
EPA Vic IWRG1828.2 Category D / Industrial Waste upper limit										2			2,500	10,000	75		
EPA Vic IWRG1828.2 Fill material upper limit										2			50	450			
NEPM Amendment 2013 EIL (urb res/public open space) - aged																	
NEPM Amendment 2013 EIL (urb res/public open space) - fresh																	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																	
NEPM 2013 Table 1A(1) HILs Res A Soil										1							
NEPM 2013 Table 1A(1) HILs Res B Soil										1							
NEPM 2013 Table 1A(1) HILs Rec C Soil										1							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										7							
Field ID	Date	Depth															
BH01/0.0-0.1 (re-tested)	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-
BH01/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-
BH02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-
BH03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
BH04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
BH05/0.0-0.1	21/06/2022	0 - 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	27	20	<5	<100	-	38	6.9
BH05/0.2-0.3	21/06/2022	0.2 - 0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	9.5	-
BH05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-
BH06/0.0-0.1	21/06/2022	0 - 1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<5	<100	-	22	6.4
TP01/0.7-0.8	21/06/2022	0.7 - 0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
TP01/2.0-2.1	21/06/2022	2 - 2.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<5	<100	-	18	7.5
TP01/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
TP02/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
TP02/0.9-1.0	21/06/2022	0.9 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-
TP03/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP03/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP03/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP03/3.0-3.1	21/06/2022	3 - 3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP04/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP04/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP04/2.2-2.3	21/06/2022	2.2 - 2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP05/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
TP05/0.5-0.6	21/06/2022	0.5 - 0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
TP06/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP06/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
TP06/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP07/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
TP07/1.0-1.1	21/06/2022	1 - 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	-
TP09/0.0-0.1	21/06/2022	0 - 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
TP09/0.5-0.6	21/06/2022	0.5 - 0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<5	<100	-	8.7	8.9
TP09/2.0-2.1	21/06/2022	2 - 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Job Ref: 2101947
Address: 5495 Princes Hwy, Traralgon
Client: Stable Property Services

Table 02
Chemical Testing Results
Soil QA/QC

				Lab Report Number	899770	899770		899770	22-51753		899770	899770		899770	22-51753		899770	899770		899770	22-51753	
				Field ID	220621-SS01	220621-D01		220621-SS01	220621-SS01A		BH04/0.0-0.1	220621-D03		BH04/0.0-0.1	BH04/0.0-0.1A		TP04/0.0-0.1	220621-D02		TP04/0.0-0.1	TP04/0.0-0.1A	
				Matrix Type	Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
				Date	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD
				EQL																		
Metals	Aluminium	mg/kg	5	-	-	-	-	3,000	-	-	-	-	-	3,800	-	-	-	-	-	13,000	-
	Antimony	mg/kg	5	<10	<10	0	<10	<5	0	<10	<10	0	<10	<5	0	<10	<10	0	<10	<5	0
	Arsenic	mg/kg	2	<2	<2	0	<2	<5	0	2.5	3.5	33	2.5	<5	0	8.9	4.2	72	8.9	<5	56
	Barium	mg/kg	5	18	34	62	18	32	56	45	82	58	45	95	71	69	51	30	69	63	9
	Beryllium	mg/kg	2	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0
	Boron	mg/kg	10	<10	<10	0	<10	<10	0	13	<10	26	13	<10	26	<10	<10	0	<10	<10	0
	Cadmium	mg/kg	0.2	<0.4	<0.4	0	<0.4	<0.2	0	<0.4	<0.4	0	<0.4	0.3	0	<0.4	<0.4	0	<0.4	<0.2	0
	Chromium (III+VI)	mg/kg	5	<5	5.2	4	<5	<5	0	6.6	9.6	37	6.6	8	19	30	21	35	30	26	14
	Cobalt	mg/kg	5	<5	<5	0	<5	<5	0	<5	<5	0	<5	<5	0	9.3	6.3	38	9.3	8	15
	Copper	mg/kg	5	<5	<5	0	<5	<5	0	12	18	40	12	17	34	11	5.6	65	11	8	32
	Iron	mg/kg	10	3,400	5,500	47	3,400	4,600	30	6,300	8,900	34	6,300	9,400	39	43,000	26,000	49	43,000	26,000	49
	Lead	mg/kg	5	<5	5.6	11	<5	<5	0	88	140	46	88	150	52	23	13	56	23	12	63
	Manganese	mg/kg	5	31	66	72	31	42	30	110	190	53	110	210	62	120	68	55	120	100	18
	Mercury	mg/kg	0.05	<0.1	<0.1	0	<0.1	<0.05	0	<0.1	<0.1	0	<0.1	0.06	0	<0.1	<0.1	0	<0.1	<0.05	0
	Molybdenum	mg/kg	5	<5	<5	0	<5	<5	0	<5	<5	0	<5	<5	0	<5	<5	0	<5	<5	0
	Nickel	mg/kg	5	<5	<5	0	<5	<5	0	<5	5.8	15	<5	7	33	15	8.3	58	15	17	12
	Selenium	mg/kg	2	<2	<2	0	<2	<3	0	<2	<2	0	<2	<3	0	<2	<2	0	<2	<3	0
	Silver	mg/kg	2	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0
	Tin	mg/kg	5	<10	<10	0	<10	<5	0	<10	<10	0	<10	6	0	<10	<10	0	<10	<5	0
	Vanadium	mg/kg	5	<10	15	40	<10	13	26	<10	14	33	<10	13	26	84	56	40	84	50	51
	Zinc	mg/kg	5	<5	5.2	4	<5	<5	0	330	360	9	330	320	3	32	18	56	32	32	0
PAH	Acenaphthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Acenaphthylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benz(a)anthracene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(a) pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(b+j)fluoranthen	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Benzo(k)fluoranthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Chrysene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Dibenz(a,h)anthracen	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluoranthene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Indeno(1,2,3-	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Naphthalene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Phenanthrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	B(a)P TEQ calc (Half)	mg/kg	0.1	0.6	0.6	0	0.6	<0.1	143	0.6	0.6	0	0.6	<0.1	143	0.6	0.6	0	0.6	<0.1	143
	B(a)P TEQ (LOR)	mg/kg	0.2	1.2	1.2	0	1.2	0.2	143	1.2	1.2	0	1.2	0.2	143	1.2	1.2	0	1.2	0.2	143
	B(a)P TEQ calc (Zero)	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
	PAHs (Sum of total)	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 02
Chemical Testing Results
Soil QA/QC

	Lab Report Number			899770	899770		899770	22-51753		899770	899770		899770	22-51753		899770	899770		899770	22-51753	
	Field ID			220621-SS01	220621-D01		220621-SS01	220621-SS01A		BH04/0.0-0.1	220621-D03		BH04/0.0-0.1	H04/0.0-0.1A		TP04/0.0-0.1	220621-D02		TP04/0.0-0.1	TP04/0.0-0.1A	
	Matrix Type			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
	Date			21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD	21/06/2022	21/06/2022	RPD
		EQL																			
OCP	4,4-DDE	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	a-BHC	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Aldrin	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Aldrin + Dieldrin	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	b-BHC	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Chlordane	mg/kg	0.05	<0.1	-	-	<0.1	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	d-BHC	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	DDD	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	DDT	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	DDT+DDE+DDD	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Dieldrin	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endosulfan I	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endosulfan II	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endosulfan sulphate	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endrin	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endrin aldehyde	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Endrin ketone	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Heptachlor	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Heptachlor epoxide	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
	Methoxychlor	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-
TPH	C6-C9	mg/kg	20	<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0	-	-	-	-	-	-
	C10-C14	mg/kg	20	<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0	-	-	-	-	-	-
	C15-C28	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0	-	-	-	-	-	-
	C29-C36	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0	-	-	-	-	-	-
	C10-C36 (Sum of total)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0	-	-	-	-	-	-
TRH	C10-C16 (F2)	mg/kg	20	<50	<50	0	<50	<20	0	<50	<50	0	<50	<20	0	-	-	-	-	-	-
	C10-C16 (F2 minus Naphthalene)	mg/kg	20	<50	<50	0	<50	<20	0	<50	<50	0	<50	<20	0	-	-	-	-	-	-
	C16-C34 (F3)	mg/kg	50	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0	-	-	-	-	-	-
	C34-C40 (F4)	mg/kg	50	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0	-	-	-	-	-	-
	C6-C10 (F1 minus BTEX)	mg/kg	20	<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0	-	-	-	-	-	-
	C10-C40 (Sum of total)	mg/kg	50	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0	-	-	-	-	-	-
	C6-C10 (F1)	mg/kg	20	<20	<20	0	<20	<20	0	<20	<20	0	<20	<20	0	-	-	-	-	-	-
BTEX	Naphthalene (BTEX)	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-	-	-	-	-	-	-
Halogenated Benzenes	Hexachlorobenzene	mg/kg	0.05	<0.05	-	-	<0.05	<0.05	0	-	-	-	-	-	-	-	-	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 50 (1 - 10 x EQL); 50 (10 - 30 x EQL); 50 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Table 02
Chemical Testing Results
Soil QA/QC

Job Ref: 2101947
Address: 5495 Princes Hwy, Traralgon
Client: Stable Property Services

Job Ref: 2101947
Address: 5495 Princes Hwy, Traralgon
Client: Stable Property Services

		Lab Report Number		899770	22-51753	22-51753	22-51753
		Field ID		BH01/0.0-0.1	BH01/0.0-0.1A (1)	BH01/0.0-0.1A (2)	BH01/0.0-0.1A (3)
		Matrix Type		Soil	Soil	Soil	Soil
		Date		21/06/2022	21/06/2022	21/06/2022	21/06/2022
			EQL				
Metals	Aluminium	mg/kg	5	-	-	-	-
	Antimony	mg/kg	5	-	-	-	-
	Arsenic	mg/kg	2	-	-	-	-
	Barium	mg/kg	5	-	-	-	-
	Beryllium	mg/kg	2	-	-	-	-
	Boron	mg/kg	10	-	-	-	-
	Cadmium	mg/kg	0.2	-	-	-	-
	Chromium (III+VI)	mg/kg	5	-	-	-	-
	Cobalt	mg/kg	5	-	-	-	-
	Copper	mg/kg	5	-	-	-	-
	Iron	mg/kg	10	-	-	-	-
	Lead	mg/kg	5	2,300	620	710	520
	Manganese	mg/kg	5	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-
	Molybdenum	mg/kg	5	-	-	-	-
	Nickel	mg/kg	5	-	-	-	-
	Selenium	mg/kg	2	-	-	-	-
	Silver	mg/kg	2	-	-	-	-
	Tin	mg/kg	5	-	-	-	-
	Vanadium	mg/kg	5	-	-	-	-
	Zinc	mg/kg	5	-	-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are:
50 (1 - 10 x EQL); 50 (10 - 30 x EQL); 50 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories.
Any methods in the row header relate to those used in the primary laboratory.

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

Chemical Testing Results
Table 03
Soil QA/QC
Rinsate

Lab Report Number	899770
Sample ID	220621-S-RB01
Date	21/06/2022

		Unit	EQL	
Metals	Antimony	mg/L	0.005	<0.005
	Arsenic	mg/L	0.001	<0.001
	Barium	mg/L	0.02	<0.02
	Beryllium	mg/L	0.001	<0.001
	Boron	mg/L	0.05	<0.05
	Cadmium	mg/L	0.0002	<0.0002
	Chromium (III+VI)	mg/L	0.001	<0.001
	Cobalt	mg/L	0.001	<0.001
	Copper	mg/L	0.001	<0.001
	Lead	mg/L	0.001	<0.001
	Manganese	mg/L	0.005	<0.005
	Mercury	mg/L	0.0001	<0.0001
	Molybdenum	mg/L	0.005	<0.005
	Nickel	mg/L	0.001	<0.001
	Selenium	mg/L	0.001	<0.001
	Silver	mg/L	0.005	<0.005
	Tin	mg/L	0.005	<0.005
	Vanadium	mg/L	0.005	<0.005
	Zinc	mg/L	0.005	<0.005
PAH	Acenaphthene	mg/L	0.001	<0.001
	Acenaphthylene	mg/L	0.001	<0.001
	Anthracene	mg/L	0.001	<0.001
	Benz(a)anthracene	mg/L	0.001	<0.001
	Benzo(a) pyrene	mg/L	0.001	<0.001
	Benzo(b+j)fluoranthene	mg/L	0.001	<0.001
	Benzo(g,h,i)perylene	mg/L	0.001	<0.001
	Benzo(k)fluoranthene	mg/L	0.001	<0.001
	Chrysene	mg/L	0.001	<0.001
	Dibenz(a,h)anthracene	mg/L	0.001	<0.001
	Fluoranthene	mg/L	0.001	<0.001
	Fluorene	mg/L	0.001	<0.001
	Indeno(1,2,3-c,d)pyrene	mg/L	0.001	<0.001
	Naphthalene	mg/L	0.001	<0.001
	Phenanthrene	mg/L	0.001	<0.001
	Pyrene	mg/L	0.001	<0.001
	PAHs (Sum of total)	mg/L	0.001	<0.001
TPH	C6-C9	mg/L	0.02	<0.02
	C10-C14	mg/L	0.05	<0.05
	C15-C28	mg/L	0.1	<0.1
	C29-C36	mg/L	0.1	<0.1
	C10-C36 (Sum of total)	mg/L	0.1	<0.1
TRH	C10-C16 (F2)	mg/L	0.05	<0.05
	C10-C16 (F2 minus Naphthalene)	mg/L	0.05	<0.05
	C16-C34 (F3)	mg/L	0.1	<0.1
	C34-C40 (F4)	mg/L	0.1	<0.1
	C6-C10 (F1 minus BTEX)	mg/L	0.02	<0.02
	C10-C40 (Sum of total)	mg/L	0.1	<0.1
	C6-C10 (F1)	mg/L	0.02	<0.02
BTEX	Naphthalene (BTEX)	mg/L	0.01	<0.01

Prepared by: [redacted]
Checked by: [redacted]
13/07/2022

APPENDIX F PROUCL 5.1 STATISTICAL ANALYSIS (FLUORIDE & NICKEL)

Statistical Analysis - ProUCL 5.1 Data

Job Ref: 2101947
Address: 5495 Princes Hwy, Traralgon
Client: Stable Property Services

Sample ID	Fluoride (mg/kg)	Nickel (mg/kg)
220621-SS01	470	<5
220621-SS02	-	<5
220621-SS03	<100	<5
220621-SS04	-	<5
220621-SS05	<100	<5
220621-SS06	-	<5
220621-SS07	<100	<5
220621-SS08	-	<5
220621-SS09	<100	<5
220621-SS10	-	<5
220621-SS11	<100	<5
220621-SS12	-	<5
220621-SS13	<100	5.5
220621-SS14	-	<5
220621-SS15	<100	<5
220621-SS16	-	<5
220621-SS17	<100	<5
220621-SS18	-	<5
220621-SS19	-	<5
220621-SS20	<100	<5
220621-SS21	-	12
220621-SS22	-	<5
220621-SS23	-	<5
220621-SS24	-	<5
220621-SS25	-	11
220621-SS26	-	5.5
220621-SS27	-	<5
220621-SS28	-	<5
220621-SS29	-	<5
TP01/0.7-0.8	-	11
TP01/2.0-2.1	-	12
TP02/0.0-0.1	-	10
TP03/0.0-0.1	-	67
TP03/1.0-1.1	-	38
TP03/2.0-2.1	-	6.1
TP04/0.0-0.1	-	15
TP04/2.2-2.3	-	<5
TP05/0.0-0.1	-	22
TP05/0.5-0.6	-	<5
TP06/0.0-0.1	-	<5
TP06/1.0-1.1	-	5.8
TP07/0.0-0.1	-	<5
TP07/1.0-1.1	-	7.1
TP09/0.0-0.1	-	8.5
TP09/0.5-0.6	-	14
EPA Vic IWRG1828.2 Fill material upper limit	**450**	**60**
ProUCL 95% UCL mean	**204.8**	**9.603**

UCL Statistics for Data Sets with Non-Detects
Fluoride & Nickel

User Selected Options	
Date/Time of Computation	ProUCL 5.113/07/2022 11:18:35 AM
From File	WorkSheet_a.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Fluoride

General Statistics

Total Number of Observations	10	Number of Distinct Observations	2
		Number of Missing Observations	0
Minimum	100	Mean	137
Maximum	470	Median	100
SD	117	Std. Error of Mean	37
Coefficient of Variation	0.854	Skewness	3.162

Normal GOF Test

Shapiro Wilk Test Statistic	0.366	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.842	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.524	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.262	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	204.8	95% Adjusted-CLT UCL (Chen-1995)	237.4
		95% Modified-t UCL (Johnson-1978)	211

Gamma GOF Test

A-D Test Statistic	3.33	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.731	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.538	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.268	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.281	k star (bias corrected MLE)	2.364
Theta hat (MLE)	41.75	Theta star (bias corrected MLE)	57.96
nu hat (MLE)	65.62	nu star (bias corrected)	47.27
MLE Mean (bias corrected)	137	MLE Sd (bias corrected)	89.11
		Approximate Chi Square Value (0.05)	32.49
Adjusted Level of Significance	0.0267	Adjusted Chi Square Value	30.38

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	199.3	95% Adjusted Gamma UCL (use when n<50)	213.2

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.366	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.842	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.524	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.262	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	4.605	Mean of logged Data	4.76
Maximum of Logged Data	6.153	SD of logged Data	0.489

Assuming Lognormal Distribution

95% H-UCL	188.6	90% Chebyshev (MVUE) UCL	191.2
95% Chebyshev (MVUE) UCL	219	97.5% Chebyshev (MVUE) UCL	257.6
99% Chebyshev (MVUE) UCL	333.3		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	197.9	95% Jackknife UCL	N/A
95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL	N/A
95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL	N/A
95% BCA Bootstrap UCL	N/A		
90% Chebyshev(Mean, Sd) UCL	248	95% Chebyshev(Mean, Sd) UCL	298.3
97.5% Chebyshev(Mean, Sd) UCL	368.1	99% Chebyshev(Mean, Sd) UCL	505.1

Suggested UCL to Use

95% Student's-t UCL	204.8	or 95% Modified-t UCL	211

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Nickel

General Statistics

Total Number of Observations	44	Number of Distinct Observations	14
Number of Detects	16	Number of Non-Detects	28
Number of Distinct Detects	13	Number of Distinct Non-Detects	1
Minimum Detect	5.5	Minimum Non-Detect	5
Maximum Detect	67	Maximum Non-Detect	5
Variance Detects	253.3	Percent Non-Detects	63.64%
Mean Detects	15.66	SD Detects	15.92
Median Detects	11	CV Detects	1.017
Skewness Detects	2.671	Kurtosis Detects	7.545
Mean of Logged Detects	2.464	SD of Logged Detects	0.701

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.634	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.887	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.329	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.213	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	8.875	KM Standard Error of Mean	1.652
KM SD	10.61	95% KM (BCA) UCL	12.02
95% KM (t) UCL	11.65	95% KM (Percentile Bootstrap) UCL	11.78
95% KM (z) UCL	11.59	95% KM Bootstrap t UCL	16.4
90% KM Chebyshev UCL	13.83	95% KM Chebyshev UCL	16.08
97.5% KM Chebyshev UCL	19.19	99% KM Chebyshev UCL	25.32

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.106	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.751	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.238	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.218	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.893	k star (bias corrected MLE)	1.58
Theta hat (MLE)	8.272	Theta star (bias corrected MLE)	9.912
nu hat (MLE)	60.57	nu star (bias corrected)	50.55
Mean (detects)	15.66		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	5.7
Maximum	67	Median	0.01
SD	12.1	CV	2.122
k hat (MLE)	0.196	k star (bias corrected MLE)	0.197
Theta hat (MLE)	29.14	Theta star (bias corrected MLE)	28.87
nu hat (MLE)	17.21	nu star (bias corrected)	17.37
Adjusted Level of Significance (β)	0.0445		
Approximate Chi Square Value (17.37, α)	8.94	Adjusted Chi Square Value (17.37, β)	8.734
95% Gamma Approximate UCL (use when n>=50)	11.08	95% Gamma Adjusted UCL (use when n<50)	11.34

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	8.875	SD (KM)	10.61
Variance (KM)	112.6	SE of Mean (KM)	1.652
k hat (KM)	0.699	k star (KM)	0.667
nu hat (KM)	61.53	nu star (KM)	58.67
theta hat (KM)	12.69	theta star (KM)	13.31
80% gamma percentile (KM)	14.61	90% gamma percentile (KM)	22.53
95% gamma percentile (KM)	30.74	99% gamma percentile (KM)	50.42

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (58.67, α)	42.06	Adjusted Chi Square Value (58.67, β)	41.58
95% Gamma Approximate KM-UCL (use when n>=50)	12.38	95% Gamma Adjusted KM-UCL (use when n<50)	12.52

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.886	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.887	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.176	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.213	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	6.742	Mean in Log Scale	1.012
SD in Original Scale	11.65	SD in Log Scale	1.381
95% t UCL (assumes normality of ROS data)	9.694	95% Percentile Bootstrap UCL	9.618
95% BCA Bootstrap UCL	11	95% Bootstrap t UCL	12.7
95% H-UCL (Log ROS)	12.95		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	1.92	KM Geo Mean	6.822
KM SD (logged)	0.58	95% Critical H Value (KM-Log)	1.964
KM Standard Error of Mean (logged)	0.0903	95% H-UCL (KM -Log)	9.603
KM SD (logged)	0.58	95% Critical H Value (KM-Log)	1.964
KM Standard Error of Mean (logged)	0.0903		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	7.284	Mean in Log Scale	1.479
SD in Original Scale	11.37	SD in Log Scale	0.859
95% t UCL (Assumes normality)	10.17	95% H-Stat UCL	8.489

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

KM H-UCL 9.603

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX G NATA LABORATORY CERTIFICATES OF ANALYSIS

Beveridge Williams

development & environment consultants

Chain of Custody Form

Client	Stable Engineering Services	Job number	2101947
Project	Preliminary Contamination Assessment	Laboratory	Eurofins Scientific 6 Monterey Rd, Dandenong South VIC 3175
Location	5495 Princes Hwy, Traralgon	Quote number	180618BEV-3
		Project Manager	[redacted]
		Sampled by	[redacted]

Turnaround time	24hr ☐	48hr ☐	72hr ☐	Standard ☒	Comments:

Chain of Custody

From	Company	Date	Received by	Company	Date	Time
[redacted]	Beveridge Williams	22/06/2022	[redacted]	[redacted]	22/6/22	10:00am

Quality control

		Initial
Sample preservation	Appropriate sample containers used, refrigerated or chilled samples supplied to laboratory	[redacted]
Sample holding times	Tests conducted within specified holding times	
Final certificates	Re-testing of results as requested. Tests conducted and reported as per CoC form.	

***CAUTION: BONDED ACM SAMPLES INCLUDED**

Notes

Matrix: S = Soil GW = Groundwater W = Water R = Rinsate Soluble Heavy Metals: Ag, As, B, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, V, Zn
Soil: Suite BW Soil 1 : Metals, OCP Suite BW Soil 2- Metals, PAH Suite BW Soil 3: Metals, PAH, OCP Suite BW Soil 4 : Metals, PAH, TRH
Suite BW Soil 5 : Metals, CrVI, Total CN, Total F, Speciated Phenols, BTEXN, Styrene, TRH, PAH, PCB, OCP, Volatile CHC, Semivolatile CHC, pH, Moisture
Water: Suite BW GW 1 : Metals (As, Cd, Cu, Pb, Hg, Mo, Ni, Sn, Se, Ag, Zn), CrVI, Total CN, Speciated Phenols, BTEXN, Styrene, TRH, PAH (trace 0.00001), PCB, OCP (trace
All groundwater heavy metals testing must be for soluble metals unless otherwise indicated.

Beveridge Williams				Job Number						2101947				
				Testing required										
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5 : Metals, CrVI, Total CN, Total F, Speciated Phenols, BTEXN, Styrene, TRH, PAH, PCB, OCP, Volatile CHC, Semivolatile CHC, pH, Moisture	Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total CN, Total F, Speciated Phenols, BTEXN, Styrene, TRH, PAH (trace 0.00001), PCB, OCP (trace	PAH, OCP	Heavy metals	TRH	Mercury, Cr, Cu, Ni, Pb, Zn, Mg	PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Co, Ni,	Asbestos (Soil)
BH01/0.0-0.1	21/06/2022	S	1		X									
BH01/0.5-0.6	21/06/2022	S	1		X									
BH01/0.7-0.8	21/06/2022	S	1											
BH02/0.0-0.1	21/06/2022	S	1	X										
BH02/0.4-0.5	21/06/2022	S	1											
BH03/0.0-0.1	21/06/2022	S	1											
BH03/0.2-0.3	21/06/2022	S	1				X							
BH03/0.4-0.5	21/06/2022	S	1											
BH04/0.0-0.1	21/06/2022	S	1				X							
BH04/0.3-0.4	21/06/2022	S	1											
BH05/0.0-0.1	21/06/2022	S	1					X						
BH05/0.2-0.3	21/06/2022	S	1											
BH05/0.5-0.6	21/06/2022	S	1											
BH06/0.0-0.1	21/06/2022	S	1					X						
BH06/0.1-0.2	21/06/2022	S	1											
BH06/0.5-0.6	21/06/2022	S	1											
TP01/0.0-0.1	21/06/2022	S	1											
TP01/0.7-0.8	21/06/2022	S	1				X							
TP01/1.0-1.1	21/06/2022	S	1											

Beveridge Williams				Job Number						2101947					
				Testing required											
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total	OCP	Suite B4: TRH, BTEXN, PAH	[illegible]	PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni,	pH, Asbestos (Soil only)
TP01/2.0-2.1	21/06/2022	S	1					X							
TP01/3.0-3.1	21/06/2022	S	1							X					
TP01/3.1-3.2	21/06/2022	S	1												
TP02/0.0-0.1	21/06/2022	S	1			X			X						
TP02/0.5-0.6	21/06/2022	S	1												
TP02/0.9-1.0	21/06/2022	S	1						X						
TP03/0.0-0.1	21/06/2022	S	1							X	X				
TP03/1.0-1.1	21/06/2022	S	1				X								
TP03/2.0-2.1	21/06/2022	S	1		X										
TP03/3.0-3.1	21/06/2022	S	1						X						
TP04/0.0-0.1	21/06/2022	S	1		X										
TP04/0.5-0.6	21/06/2022	S	1												
TP04/1.0-1.1	21/06/2022	S	1						X		X				
TP04/2.2-2.3	21/06/2022	S	1							X	X				
TP04/2.5-2.6	21/06/2022	S	1												
TP05/0.0-0.1	21/06/2022	S	1				X								
TP05/0.5-0.6	21/06/2022	S	1							X	X				
TP05/0.7-0.8	21/06/2022	S	1												
TP06/0.0-0.1	21/06/2022	S	1				X								
TP06/0.5-0.6	21/06/2022	S	1												
TP06/1.0-1.1	21/06/2022	S	1		X										
TP06/2.0-2.1	21/06/2022	S	1						X						
TP06/2.9-3.0	21/06/2022	S	1												
TP07/0.0-0.1	21/06/2022	S	1			X									
TP07/0.5-0.6	21/06/2022	S	1												
TP07/1.0-1.1	21/06/2022	S	1				X								
TP07/2.2-2.3	21/06/2022	S	1												
TP08/0.0-0.1	21/06/2022	S	1												
TP08/0.5-0.6	21/06/2022	S	1												
TP08/1.0-1.1	21/06/2022	S	1												
TP08/1.5-1.6	21/06/2022	S	1												
TP09/0.0-0.1	21/06/2022	S	1				X								
TP09/0.5-0.6	21/06/2022	S	1					X							
TP09/1.0-1.1	21/06/2022	S	1												
TP09/2.0-2.1	21/06/2022	S	1						X						
TP09/2.2-2.3	21/06/2022	S	1												
220621-SS01	21/06/2022	S	1					X							
220621-SS02	21/06/2022	S	1			X									
220621-SS03	21/06/2022	S	1							X					
220621-SS04	21/06/2022	S	1			X									
220621-SS05	21/06/2022	S	1							X					
220621-SS06	21/06/2022	S	1			X									
220621-SS07	21/06/2022	S	1							X					
220621-SS08	21/06/2022	S	1			X									
220621-SS09	21/06/2022	S	1							X					
220621-SS10	21/06/2022	S	1			X									
220621-SS11	21/06/2022	S	1							X					
220621-SS12	21/06/2022	S	1			X									
220621-SS13	21/06/2022	S	1							X					

Beveridge Williams				Job Number						2101947				
				Testing required										
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5: Metals (As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total CN, Total F, Specified Phenols	PAH soil	Heavy metal	TRH	PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni,	Asbestos pH (soils)
220621-SS14	21/06/2022	S	1			X								
220621-SS15	21/06/2022	S	1								X			
220621-SS16	21/06/2022	S	1			X								
220621-SS17	21/06/2022	S	1								X			
220621-SS18	21/06/2022	S	1			X								
220621-SS19	21/06/2022	S	1								X			
220621-SS20	21/06/2022	S	1			X								
220621-SS21	21/06/2022	S	1				X							
220621-SS22	21/06/2022	S	1								X			
220621-SS23	21/06/2022	S	1						X	X				
220621-SS24	21/06/2022	S	1								X			
220621-SS25	21/06/2022	S	1								X			
220621-SS26	21/06/2022	S	1						X	X				
220621-SS27	21/06/2022	S	1								X			
220621-SS28	21/06/2022	S	1			X								
220621-SS29	21/06/2022	S	1			X								
220621-S-D03	21/06/2022	S	1				X							
220621-S-D02	21/06/2022	S	1		X									
220621-S-D04	21/06/2022	S	1											
220621-S-D01	21/06/2022	S	1				X					X		
220621-S-RB01	21/06/2022	R	1				X					X		
SP01-AS01	21/06/2022	A	1											X
SP01-AS02	21/06/2022	A	1											
SP01-AS03	21/06/2022	A	1											X
SP01-AS04	21/06/2022	A	1											
SP01-AS05	21/06/2022	A	1											
TP03-AS01	21/06/2022	A	1											X
TP06-AS01	21/06/2022	A	1											X

[redacted]

#AU_CAU001_EnviroSampleVic

From: [redacted]
Sent: Wednesday, 22 June 2022 2:41 PM
To: [redacted]
Cc: [redacted] #AU_CAU001_EnviroSampleVic
Subject: RE: Beveridge Williams eCOC sample delivery - 2101947_eCOC EF blank_220621.pdf
Attachments: 2101947_Analysis Request EF_220621.pdf

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Thanks for sending that through [redacted]

[redacted] – Please see attached for analysis.

Kind Regards,
[redacted]

Phone :
Mobile
Email [redacted]

From: [redacted]
Sent: Wednesday, 22 June 2022 2:30 PM
To: [redacted]
Cc: [redacted]
Subject: RE: Beveridge Williams eCOC sample delivery - 2101947_eCOC EF blank_220621.pdf

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hey [redacted]

Please find attached our analysis request for the samples submitted this morning. Thanks.

Regards,

[redacted]

[redacted]
Senior Environmental Engineer
A 1 Glenferrie Road, Malvern, VIC 3144
W beveridgewilliams.com.au
D [redacted]

Proudly certified in Victoria for Quality ISO 9001, Safety AS/NZS 4801 and Environment ISO 14001

Beveridge Williams acknowledges the Traditional Custodians of the land it works on and pays respect to their Elders, past and present.

From: [redacted]
Sent: Wednesday, 22 June 2022 9:50 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Beveridge Williams eCOC sample delivery - 2101947_eCOC EF blank_220621.pdf

Thanks [redacted]

Kind Regards,

[redacted]

Phone : [redacted]
Mobile
Email

From: [redacted]
Sent: Wednesday, 22 June 2022 9:07 AM
To: [redacted]
Cc: [redacted]
Subject: Beveridge Williams eCOC sample delivery - 2101947_eCOC EF blank_220621.pdf
Importance: Low

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi ,

[redacted] will be dropping off samples at sample receipt (or is on the way to drop off samples) and the COC has been attached. If no analysis request is included this will be forwarded by email. A new eCOC from Justin Tillig has been added 2101947_eCOC EF blank_220621.pdf.

Thanks!

[redacted]
Principal Environmental Scientist
A 1 Glenferrie Road, Malvern, VIC 3144
W beveridgewilliams.com.au
[redacted]

[redacted]

Beveridge Williams
development & environment consultants

Chain of Custody Form

		Job number	2101947
		Laboratory	Eurofins Scientific 6 Monterey Rd, Dandenong South VIC 3175
Client	Stable Engineering Services	Quote number	180618BEV-3
Project	Preliminary Contamination Assessment	Project Manager	[redacted]
Location	5495 Princes Hwy, Traralgon	Sampled by	[redacted]

Turnaround time	24hr ☐	48hr ☐	72hr ☐	Standard ☒	Comments:

Chain of Custody

From	Company	Date	Received by	Company	Date	Time
[redacted]	Beveridge Williams	22/06/2022	[redacted]			

Quality control

		Initial
Sample preservation	Appropriate sample containers used, refrigerated or chilled samples supplied to laboratory	[redacted]
Sample holding times	Tests conducted within specified holding times	
Final certificates	Re-testing of results as requested. Tests conducted and reported as per CoC form.	

***CAUTION: BONDED ACM SAMPLES INCLUDED**

Notes

Matrix: S = Soil GW = Groundwater W = Water R = Rinsate Soluble Heavy Metals: Ag, As, B, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, V, Zn
Soil: Suite BW Soil 1 : Metals, OCP Suite BW Soil 2- Metals, PAH Suite BW Soil 3: Metals, PAH, OCP Suite BW Soil 4 : Metals, PAH, TRH
Suite BW Soil 5 : Metals, CrVI, Total CN, Total F, Speciated Phenols, BTEXN, Styrene, TRH, PAH, PCB, OCP, Volatile CHC, Semivolatile CHC, pH, Moisture
Water: Suite BW GW 1 : Metals (As, Cd, Cu, Pb, Hg, Mo, Ni, Sn, Se, Ag, Zn), CrVI, Total CN, Speciated Phenols, BTEXN, Styrene, TRH, PAH (trace 0.00001), PCB, OCP (trace
All groundwater heavy metals testing must be for soluble metals unless otherwise indicated.

Beveridge Williams				Job Number						2101947				
				Testing required										
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total CN, Total F, Speciated Phenols	Suite B1: TRH, BTEXN	Suite B4: TRH, BTEXN, PAH	Suite B7: TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	Suite B11: VIC EPA IWRG 621 - TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	pH
BH01/0.0-0.1	21/06/2022	S	1											
BH01/0.5-0.6	21/06/2022	S	1											
BH01/0.7-0.8	21/06/2022	S	1											
BH02/0.0-0.1	21/06/2022	S	1											
BH02/0.4-0.5	21/06/2022	S	1											
BH03/0.0-0.1	21/06/2022	S	1											
BH03/0.2-0.3	21/06/2022	S	1											
BH03/0.4-0.5	21/06/2022	S	1											
BH04/0.0-0.1	21/06/2022	S	1											
BH04/0.3-0.4	21/06/2022	S	1											
BH05/0.0-0.1	21/06/2022	S	1											
BH05/0.2-0.3	21/06/2022	S	1											
BH05/0.5-0.6	21/06/2022	S	1											
BH06/0.0-0.1	21/06/2022	S	1											
BH06/0.1-0.2	21/06/2022	S	1											
BH06/0.5-0.6	21/06/2022	S	1											
TP01/0.0-0.1	21/06/2022	S	1											
TP01/0.7-0.8	21/06/2022	S	1											
TP01/1.0-1.1	21/06/2022	S	1											

22/06/2210:02am

5.8
-0.1
5.7

hand del.

Chels

[redacted]

Beveridge Williams				Job Number											
				Testing required											
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total Ch, Totals, Speciated Phenols	Suite B1: TRH, BTEXN	Suite B4: TRH, BTEXN, PAH	Suite B7: TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	Suite B12: VIC EPA IWRG 621 - TRH, PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb, Hg, As, Sn, Mo, Se, Zn) Cr6+	pH
TP01/2.0-2.1	21/06/2022	S	1												
TP01/3.0-3.1	21/06/2022	S	1												
TP01/3.1-3.2	21/06/2022	S	1												
TP02/0.0-0.1	21/06/2022	S	1												
TP02/0.5-0.6	21/06/2022	S	1												
TP02/0.9-1.0	21/06/2022	S	1												
TP03/0.0-0.1	21/06/2022	S	1												
TP03/1.0-1.1	21/06/2022	S	1												
TP03/2.0-2.1	21/06/2022	S	1												
TP03/3.0-3.1	21/06/2022	S	1												
TP04/0.0-0.1	21/06/2022	S	1												
TP04/0.5-0.6	21/06/2022	S	1												
TP04/1.0-1.1	21/06/2022	S	1												
TP04/2.2-2.3	21/06/2022	S	1												
TP04/2.5-2.6	21/06/2022	S	1												
TP05/0.0-0.1	21/06/2022	S	1												
TP05/0.5-0.6	21/06/2022	S	1												
TP05/0.7-0.8	21/06/2022	S	1												
TP06/0.0-0.1	21/06/2022	S	1												
TP06/0.5-0.6	21/06/2022	S	1												
TP06/1.0-1.1	21/06/2022	S	1												
TP06/2.0-2.1	21/06/2022	S	1												
TP06/2.9-3.0	21/06/2022	S	1												
TP07/0.0-0.1	21/06/2022	S	1												
TP07/0.5-0.6	21/06/2022	S	1												
TP07/1.0-1.1	21/06/2022	S	1												
TP07/2.2-2.3	21/06/2022	S	1												
TP08/0.0-0.1	21/06/2022	S	1												
TP08/0.5-0.6	21/06/2022	S	1												
TP08/1.0-1.1	21/06/2022	S	1												
TP08/1.5-1.6	21/06/2022	S	1												
TP09/0.0-0.1	21/06/2022	S	1												
TP09/0.5-0.6	21/06/2022	S	1												
TP09/1.0-1.1	21/06/2022	S	1												
TP09/2.0-2.1	21/06/2022	S	1												
TP09/2.2-2.3	21/06/2022	S	1												
220621-SS01	21/06/2022	S	1												
220621-SS02	21/06/2022	S	1												
220621-SS03	21/06/2022	S	1												
220621-SS04	21/06/2022	S	1												
220621-SS05	21/06/2022	S	1												
220621-SS06	21/06/2022	S	1												
220621-SS07	21/06/2022	S	1												
220621-SS08	21/06/2022	S	1												
220621-SS09	21/06/2022	S	1												
220621-SS10	21/06/2022	S	1												
220621-SS11	21/06/2022	S	1												
220621-SS12	21/06/2022	S	1												
220621-SS13	21/06/2022	S	1												

Beveridge Williams				Job Number						2101947				
				Testing required										
Sample ID	Date sampled	Matrix	No. of containers	Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, OCP	Suite BW Soil 4 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), PAH, TRH	Suite BW Soil 5 : Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Sn, Se, Ag, V, Zn), CrVI, Total CN, Total F, Speciated Phenols	Suite B1: TRH, BTEXN	Suite B4: TRH, BTEXN, PAH	Suite B7: TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	Suite B2: VOC EPA (WHS 5c,f) + TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mn, Se, Mo, Sn, Total Cr(6+)	pH
220621-SS14	21/06/2022	S	1											
220621-SS15	21/06/2022	S	1											
220621-SS16	21/06/2022	S	1											
220621-SS17	21/06/2022	S	1											
220621-SS18	21/06/2022	S	1											
220621-SS19	21/06/2022	S	1											
220621-SS20	21/06/2022	S	1											
220621-SS21	21/06/2022	S	1											
220621-SS22	21/06/2022	S	1											
220621-SS23	21/06/2022	S	1											
220621-SS24	21/06/2022	S	1											
220621-SS25	21/06/2022	S	1											
220621-SS26	21/06/2022	S	1											
220621-SS27	21/06/2022	S	1											
220621-SS28	21/06/2022	S	1											
220621-SS29	21/06/2022	S	1											
220621-S-D03	21/06/2022	S	1											
220621-S-D02	21/06/2022	S	1											
220621-S-D04	21/06/2022	S	1											
220621-S-D01	21/06/2022	S	1											
220621-S-RB01	21/06/2022	R	1											
SP01-AS01	21/06/2022	A	1											
SP01-AS02	21/06/2022	A	1											
SP01-AS03	21/06/2022	A	1											
SP01-AS04	21/06/2022	A	1											
SP01-AS05	21/06/2022	A	1											
TP03-AS01	21/06/2022	A	1											
TP06-AS01	21/06/2022	A	1											

[redacted]

Beveridge William & Co Pty Ltd
PO Box 61
Malvern
VIC 3144

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: -[redacted]

Report **899770-S-V2**
Project name PRELIMINARY CONTAMINATION ASSESSMENT
Project ID 2101947
Received Date Jun 22, 2022

Client Sample ID			**BH01/0.0-0.1**	**BH01/0.5-0.6**	**BH02/0.0-0.1**	**BH03/0.0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0050581**	**M22-Jn0050582**	**M22-Jn0050583**	**M22-Jn0050584**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	105	94	-	102
p-Terphenyl-d14 (surr.)	1	%	120	107	-	113
Heavy Metals						
Antimony	10	mg/kg	51	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	2.4	2.4
Barium	10	mg/kg	91	21	51	95
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	6.5	35
Cobalt	5	mg/kg	< 5	< 5	< 5	13
Copper	5	mg/kg	160	< 5	7.9	32
Iron	20	mg/kg	7000	10000	5900	28000
Lead	5	mg/kg	2300	19	26	13
Manganese	5	mg/kg	8.1	7.4	98	370

Client Sample ID			BH01/0.0-0.1	BH01/0.5-0.6	BH02/0.0-0.1	BH03/0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050581	M22-Jn0050582	M22-Jn0050583	M22-Jn0050584
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	25	< 5	6.0	39
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	16	15	< 10	33
Zinc	5	mg/kg	< 5	< 5	70	140
% Moisture	1	%	8.7	9.9	34	11
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	122	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50

Client Sample ID			BH01/0.0-0.1	BH01/0.5-0.6	BH02/0.0-0.1	BH03/0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050581	M22-Jn0050582	M22-Jn0050583	M22-Jn0050584
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100

Client Sample ID			BH04/0.0-0.1	BH05/0.0-0.1	BH06/0.0-01	TP01/0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050585	M22-Jn0050586	M22-Jn0050587	M22-Jn0050588
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	51	73	52
p-Terphenyl-d14 (surr.)	1	%	120	61	59	69
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	2.5	28	5.8	3.5
Barium	10	mg/kg	45	97	130	46
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	13	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	1.5	< 0.4	< 0.4
Chromium	5	mg/kg	6.6	23	48	26
Cobalt	5	mg/kg	< 5	11	20	5.7
Copper	5	mg/kg	12	28	36	5.6
Iron	20	mg/kg	6300	18000	37000	26000
Lead	5	mg/kg	88	150	18	10
Manganese	5	mg/kg	110	330	510	87
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5

Client Sample ID			BH04/0.0-0.1	BH05/0.0-0.1	BH06/0.0-01	TP01/0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050585	M22-Jn0050586	M22-Jn0050587	M22-Jn0050588
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	< 5	45	69	11
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	< 10	29	34	54
Zinc	5	mg/kg	330	1400	170	9.2
% Moisture	1	%	22	38	22	14
Chromium (hexavalent)	1	mg/kg	-	< 1	< 1	-
Cyanide (total)	5	mg/kg	-	< 5	< 5	-
Fluoride (Total)	100	mg/kg	-	< 100	< 100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	6.9	6.4	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	90	120	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	72	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	97	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	57	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	154	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH04/0.0-0.1	BH05/0.0-0.1	BH06/0.0-01	TP01/0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050585	M22-Jn0050586	M22-Jn0050587	M22-Jn0050588
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	130	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	130	< 100	< 100
Volatile Organics						
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	75	81	-
Halogenated Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			BH04/0.0-0.1	BH05/0.0-0.1	BH06/0.0-01	TP01/0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050585	M22-Jn0050586	M22-Jn0050587	M22-Jn0050588
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Halogenated Volatile Organics						
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	75	81	-
Toluene-d8 (surr.)	1	%	-	77	80	-
Chlorinated Hydrocarbons						
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzal chloride	0.05	mg/kg	-	< 0.05	< 0.05	-
Benzotrichloride	0.05	mg/kg	-	< 0.05	< 0.05	-
Benzyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorocyclopentadiene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	72	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	90	120	-
Tetrachloro-m-xylene (surr.)	1	%	-	67	72	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	< 1	-
Pentachlorophenol	1	mg/kg	-	< 1	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	< 1	-

Client Sample ID			BH04/0.0-0.1	BH05/0.0-0.1	BH06/0.0-01	TP01/0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050585	M22-Jn0050586	M22-Jn0050587	M22-Jn0050588
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	< 5	-
2-Nitrophenol	1.0	mg/kg	-	< 1	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
Total cresols*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Nitrophenol	5	mg/kg	-	< 5	< 5	-
Dinoseb	20	mg/kg	-	< 20	< 20	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	-	53	67	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	< 20	-

Client Sample ID			TP01/2.0-2.1	TP01/3.0-3.1	TP02/0.0-0.1	TP02/0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050589	M22-Jn0050590	M22-Jn0050591	M22-Jn0050592
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	85	108	100
p-Terphenyl-d14 (surr.)	1	%	84	91	122	115
Heavy Metals						
Antimony	10	mg/kg	< 10	-	< 10	-
Arsenic	2	mg/kg	< 2	-	3.4	-
Barium	10	mg/kg	51	-	71	-
Beryllium	2	mg/kg	< 2	-	< 2	-

Client Sample ID			TP01/2.0-2.1	TP01/3.0-3.1	TP02/0.0-0.1	TP02/0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050589	M22-Jn0050590	M22-Jn0050591	M22-Jn0050592
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Boron	10	mg/kg	< 10	-	< 10	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	27	-	16	-
Cobalt	5	mg/kg	5.6	-	5.6	-
Copper	5	mg/kg	9.2	-	13	-
Iron	20	mg/kg	20000	-	17000	-
Lead	5	mg/kg	9.1	-	28	-
Manganese	5	mg/kg	120	-	190	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	12	-	10	-
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	< 10	-
Vanadium	10	mg/kg	53	-	45	-
Zinc	5	mg/kg	15	-	55	-
% Moisture	1	%	18	23	14	9.3
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Fluoride (Total)	100	mg/kg	< 100	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.5	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	136	112	89	79
Tetrachloro-m-xylene (surr.)	1	%	57	75	122	117

Client Sample ID			TP01/2.0-2.1	TP01/3.0-3.1	TP02/0.0-0.1	TP02/0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050589	M22-Jn0050590	M22-Jn0050591	M22-Jn0050592
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Volatile Organics						
Styrene	0.5	mg/kg	< 0.5	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	82	-	-	-
Halogenated Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP01/2.0-2.1	TP01/3.0-3.1	TP02/0.0-0.1	TP02/0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050589	M22-Jn0050590	M22-Jn0050591	M22-Jn0050592
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Halogenated Volatile Organics						
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	82	-	-	-
Toluene-d8 (surr.)	1	%	97	-	-	-
Chlorinated Hydrocarbons						
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Benzal chloride	0.05	mg/kg	< 0.05	-	-	-
Benzotrichloride	0.05	mg/kg	< 0.05	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	57	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	136	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	57	-	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-

Client Sample ID			TP01/2.0-2.1	TP01/3.0-3.1	TP02/0.0-0.1	TP02/0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050589	M22-Jn0050590	M22-Jn0050591	M22-Jn0050592
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
Total cresols*	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	91	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-

Client Sample ID			TP03/0.0-0.1	TP03/1.0-1.1	TP03/2.0-2.1	TP03/3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050593	M22-Jn0050594	M22-Jn0050595	M22-Jn0050596
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	80	103	102
p-Terphenyl-d14 (surr.)	1	%	-	118	113	127

Client Sample ID			TP03/0.0-0.1	TP03/1.0-1.1	TP03/2.0-2.1	TP03/3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050593	M22-Jn0050594	M22-Jn0050595	M22-Jn0050596
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	-
Arsenic	2	mg/kg	2.3	3.2	3.7	-
Barium	10	mg/kg	85	92	49	-
Beryllium	2	mg/kg	< 2	< 2	< 2	-
Boron	10	mg/kg	< 10	< 10	< 10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	41	34	24	-
Cobalt	5	mg/kg	23	18	< 5	-
Copper	5	mg/kg	36	26	< 5	-
Iron	20	mg/kg	40000	33000	21000	-
Lead	5	mg/kg	< 5	11	10	-
Manganese	5	mg/kg	570	320	41	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	67	38	6.1	-
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	2	mg/kg	< 2	< 2	< 2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Vanadium	10	mg/kg	43	61	51	-
Zinc	5	mg/kg	57	43	7.4	-
% Moisture	1	%	16	16	13	13
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	123

Client Sample ID			TP03/0.0-0.1	TP03/1.0-1.1	TP03/2.0-2.1	TP03/3.0-3.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050593	M22-Jn0050594	M22-Jn0050595	M22-Jn0050596
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			TP04/0.0-0.1	TP04/1.0-1.1	TP04/2.2-2.3	TP05/0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050597	M22-Jn0050598	M22-Jn0050599	M22-Jn0050600
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	74	64	-	112
p-Terphenyl-d14 (surr.)	1	%	93	71	-	149
Heavy Metals						
Antimony	10	mg/kg	< 10	-	< 10	< 10
Arsenic	2	mg/kg	8.9	-	8.8	2.9
Barium	10	mg/kg	69	-	72	48
Beryllium	2	mg/kg	< 2	-	2.1	< 2

Client Sample ID			TP04/0.0-0.1	TP04/1.0-1.1	TP04/2.2-2.3	TP05/0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050597	M22-Jn0050598	M22-Jn0050599	M22-Jn0050600
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Boron	10	mg/kg	< 10	-	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	30	-	12	24
Cobalt	5	mg/kg	9.3	-	< 5	10
Copper	5	mg/kg	11	-	< 5	13
Iron	20	mg/kg	43000	-	-	24000
Lead	5	mg/kg	23	-	23	11
Manganese	5	mg/kg	120	-	100	150
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	< 5	< 5
Nickel	5	mg/kg	15	-	< 5	22
Selenium	2	mg/kg	< 2	-	< 2	< 2
Silver	2	mg/kg	< 2	-	< 2	< 2
Tin	10	mg/kg	< 10	-	< 10	< 10
Vanadium	10	mg/kg	84	-	67	40
Zinc	5	mg/kg	32	-	< 5	30
% Moisture	1	%	16	13	19	14
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	59	-	-

Client Sample ID			TP04/0.0-0.1	TP04/1.0-1.1	TP04/2.2-2.3	TP05/0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050597	M22-Jn0050598	M22-Jn0050599	M22-Jn0050600
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100

Client Sample ID			TP05/0.5-0.6	TP06/0.0-0.1	TP06/1.0-1.1	TP06/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050601	M22-Jn0050602	M22-Jn0050603	M22-Jn0050604
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	108	101	99
p-Terphenyl-d14 (surr.)	1	%	-	133	134	112
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	-
Arsenic	2	mg/kg	< 2	5.0	4.8	-
Barium	10	mg/kg	14	55	36	-
Beryllium	2	mg/kg	< 2	< 2	< 2	-

Client Sample ID			TP05/0.5-0.6	TP06/0.0-0.1	TP06/1.0-1.1	TP06/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050601	M22-Jn0050602	M22-Jn0050603	M22-Jn0050604
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Boron	10	mg/kg	< 10	< 10	< 10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	< 5	10	21	-
Cobalt	5	mg/kg	< 5	< 5	< 5	-
Copper	5	mg/kg	< 5	6.0	< 5	-
Iron	20	mg/kg	6800	9500	27000	-
Lead	5	mg/kg	5.6	21	12	-
Manganese	5	mg/kg	8.9	150	63	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	< 5	< 5	5.8	-
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	2	mg/kg	< 2	< 2	< 2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Vanadium	10	mg/kg	16	24	62	-
Zinc	5	mg/kg	< 5	23	16	-
% Moisture	1	%	11	17	13	21
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	136
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	113

Client Sample ID			TP05/0.5-0.6	TP06/0.0-0.1	TP06/1.0-1.1	TP06/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050601	M22-Jn0050602	M22-Jn0050603	M22-Jn0050604
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			TP07/0.0-0.1	TP07/1.0-1.1	TP09/0.0-0.1	TP09/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050605	M22-Jn0050606	M22-Jn0050607	M22-Jn0050608
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	97	85	59
p-Terphenyl-d14 (surr.)	1	%	98	128	108	73
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	-
Arsenic	2	mg/kg	< 2	2.6	< 2	-
Barium	10	mg/kg	45	87	39	-
Beryllium	2	mg/kg	< 2	< 2	< 2	-

Client Sample ID			TP07/0.0-0.1	TP07/1.0-1.1	TP09/0.0-0.1	TP09/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050605	M22-Jn0050606	M22-Jn0050607	M22-Jn0050608
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Boron	10	mg/kg	< 10	< 10	< 10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	8.4	12	20	-
Cobalt	5	mg/kg	< 5	5.8	5.6	-
Copper	5	mg/kg	< 5	38	6.1	-
Iron	20	mg/kg	5700	14000	22000	-
Lead	5	mg/kg	6.1	20	7.9	-
Manganese	5	mg/kg	180	250	80	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	< 5	7.1	8.5	-
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	2	mg/kg	< 2	< 2	< 2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Vanadium	10	mg/kg	18	29	45	-
Zinc	5	mg/kg	10	40	18	-
% Moisture	1	%	11	8.8	15	13
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	131	-	-	98
Tetrachloro-m-xylene (surr.)	1	%	100	-	-	70

Client Sample ID			TP07/0.0-0.1	TP07/1.0-1.1	TP09/0.0-0.1	TP09/2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050605	M22-Jn0050606	M22-Jn0050607	M22-Jn0050608
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			220621-SS01	220621-SS02	220621-SS03	220621-SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050609	M22-Jn0050610	M22-Jn0050611	M22-Jn0050612
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	72	-	112
p-Terphenyl-d14 (surr.)	1	%	93	82	-	106
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Barium	10	mg/kg	18	73	47	34
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2

Client Sample ID			220621-SS01	220621-SS02	220621-SS03	220621-SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050609	M22-Jn0050610	M22-Jn0050611	M22-Jn0050612
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Boron	10	mg/kg	< 10	< 10	< 10	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	10	5.6	5.1
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	5.9	< 5	5.8
Iron	20	mg/kg	3400	5600	7000	5000
Lead	5	mg/kg	< 5	8.3	6.4	6.3
Manganese	5	mg/kg	31	78	61	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	< 10	19	20	18
Zinc	5	mg/kg	< 5	7.6	7.4	< 5
% Moisture	1	%	20	31	26	22
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Fluoride (Total)	100	mg/kg	470	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.0	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	133	124	-	85
Tetrachloro-m-xylene (surr.)	1	%	71	66	-	108

Client Sample ID			220621-SS01	220621-SS02	220621-SS03	220621-SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050609	M22-Jn0050610	M22-Jn0050611	M22-Jn0050612
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Volatile Organics						
Styrene	0.5	mg/kg	< 0.5	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	78	-	-	-
Halogenated Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			220621-SS01	220621-SS02	220621-SS03	220621-SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050609	M22-Jn0050610	M22-Jn0050611	M22-Jn0050612
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Halogenated Volatile Organics						
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	78	-	-	-
Toluene-d8 (surr.)	1	%	80	-	-	-
Chlorinated Hydrocarbons						
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Benzal chloride	0.05	mg/kg	< 0.05	-	-	-
Benzotrichloride	0.05	mg/kg	< 0.05	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	133	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	71	-	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-

Client Sample ID			220621-SS01	220621-SS02	220621-SS03	220621-SS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050609	M22-Jn0050610	M22-Jn0050611	M22-Jn0050612
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
Total cresols*	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	82	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-

Client Sample ID			220621-SS05	220621-SS06	220621-SS07	220621-SS08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050613	M22-Jn0050614	M22-Jn0050615	M22-Jn0050616
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	84	-	103
p-Terphenyl-d14 (surr.)	1	%	-	87	-	115

Client Sample ID			220621-SS05	220621-SS06	220621-SS07	220621-SS08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050613	M22-Jn0050614	M22-Jn0050615	M22-Jn0050616
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Barium	10	mg/kg	34	83	31	36
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	11	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.9	5.1	< 5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	7.1	5.4	7.2	< 5
Iron	20	mg/kg	3000	4600	4200	4000
Lead	5	mg/kg	< 5	9.5	< 5	5.2
Manganese	5	mg/kg	52	120	61	57
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	< 10	11	14	15
Zinc	5	mg/kg	5.1	39	6.4	6.1
% Moisture	1	%	18	16	26	22
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	115	-	149
Tetrachloro-m-xylene (surr.)	1	%	-	109	-	110

Client Sample ID			220621-SS09	220621-SS10	220621-SS11	220621-SS12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050617	M22-Jn0050618	M22-Jn0050619	M22-Jn0050620
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	66	-	75
p-Terphenyl-d14 (surr.)	1	%	-	64	-	96
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Barium	10	mg/kg	49	31	26	47
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	12	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.2	< 5	8.5	8.5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	8.8	9.0	< 5	6.7
Iron	20	mg/kg	4500	3100	8800	7200
Lead	5	mg/kg	6.6	5.3	6.3	11
Manganese	5	mg/kg	100	43	58	150
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	18	12	26	15
Zinc	5	mg/kg	10	< 5	5.8	27
% Moisture	1	%	24	21	24	33

Client Sample ID			220621-SS09	220621-SS10	220621-SS11	220621-SS12
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050617	M22-Jn0050618	M22-Jn0050619	M22-Jn0050620
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	78	-	62
Tetrachloro-m-xylene (surr.)	1	%	-	66	-	93

Client Sample ID			220621-SS13	220621-SS14	220621-SS15	220621-SS16
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050621	M22-Jn0050622	M22-Jn0050623	M22-Jn0050624
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			220621-SS13	220621-SS14	220621-SS15	220621-SS16
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050621	M22-Jn0050622	M22-Jn0050623	M22-Jn0050624
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	79	-	83
p-Terphenyl-d14 (surr.)	1	%	-	83	-	97
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	2.9	< 2	< 2	< 2
Barium	10	mg/kg	130	26	38	35
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	16	< 10	< 10	< 10
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.8	< 5	< 5	< 5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	17	11	12	< 5
Iron	20	mg/kg	6800	3200	5500	3500
Lead	5	mg/kg	29	< 5	6.0	5.8
Manganese	5	mg/kg	340	77	89	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	5.5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	17	11	16	< 10
Zinc	5	mg/kg	92	7.1	8.1	5.5
% Moisture	1	%	37	22	29	27
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			220621-SS13	220621-SS14	220621-SS15	220621-SS16
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050621	M22-Jn0050622	M22-Jn0050623	M22-Jn0050624
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	123	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	71	-	101

Client Sample ID			220621-SS17	220621-SS18	220621-SS19	220621-SS20
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050625	M22-Jn0050626	M22-Jn0050627	M22-Jn0050628
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	69	-	71
p-Terphenyl-d14 (surr.)	1	%	-	66	-	75
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Barium	10	mg/kg	95	22	61	29
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	15	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4

Client Sample ID			220621-SS17	220621-SS18	220621-SS19	220621-SS20
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050625	M22-Jn0050626	M22-Jn0050627	M22-Jn0050628
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Chromium	5	mg/kg	7.0	5.2	6.6	8.3
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	9.3	< 5	6.9	5.8
Iron	20	mg/kg	10000	5100	5000	5600
Lead	5	mg/kg	35	< 5	7.6	6.6
Manganese	5	mg/kg	170	48	130	49
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	17	22	18	23
Zinc	5	mg/kg	37	< 5	7.4	5.5
% Moisture	1	%	22	20	27	23
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	111	-	135
Tetrachloro-m-xylene (surr.)	1	%	-	51	-	73

Client Sample ID			220621-SS21	220621-SS22	220621-SS23	220621-SS24
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050629	M22-Jn0050630	M22-Jn0050631	M22-Jn0050632
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	78	-	53	-
p-Terphenyl-d14 (surr.)	1	%	93	-	70	-
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	< 2	< 2	2.6
Barium	10	mg/kg	75	170	45	180
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	6.4	< 5	6.5
Cobalt	5	mg/kg	6.4	< 5	< 5	< 5
Copper	5	mg/kg	5.9	< 5	< 5	9.6
Iron	20	mg/kg	18000	7700	4800	13000
Lead	5	mg/kg	9.0	< 5	6.3	24
Manganese	5	mg/kg	45	8.8	49	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	12	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	40	15	14	28
Zinc	5	mg/kg	15	6.5	6.1	< 5
% Moisture	1	%	16	14	28	12

Client Sample ID			220621-SS21	220621-SS22	220621-SS23	220621-SS24
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050629	M22-Jn0050630	M22-Jn0050631	M22-Jn0050632
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	51	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			220621-SS25	220621-SS26	220621-SS27	220621-SS28
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050633	M22-Jn0050634	M22-Jn0050635	M22-Jn0050636
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	71	-	63
p-Terphenyl-d14 (surr.)	1	%	-	72	-	68
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	4.5	< 2	14	< 2
Barium	10	mg/kg	63	79	29	30
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	15	20	5.4
Cobalt	5	mg/kg	9.6	< 5	< 5	< 5
Copper	5	mg/kg	6.7	6.4	< 5	< 5
Iron	20	mg/kg	34000	15000	47000	5100
Lead	5	mg/kg	11	8.5	12	8.5
Manganese	5	mg/kg	80	85	62	35
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	11	5.5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	66	35	100	18
Zinc	5	mg/kg	18	13	6.4	6.8
% Moisture	1	%	22	20	17	18

Client Sample ID			220621-SS25	220621-SS26	220621-SS27	220621-SS28
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050633	M22-Jn0050634	M22-Jn0050635	M22-Jn0050636
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	98	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	62	-	57

Client Sample ID			220621-SS29	220621-D03	220621-D02	220621-D01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050637	M22-Jn0050638	M22-Jn0050639	M22-Jn0050640
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			220621-SS29	220621-D03	220621-D02	220621-D01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050637	M22-Jn0050638	M22-Jn0050639	M22-Jn0050640
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	81	91	109
p-Terphenyl-d14 (surr.)	1	%	106	94	128	144
Heavy Metals						
Antimony	10	mg/kg	< 10	< 10	< 10	< 10
Arsenic	2	mg/kg	< 2	3.5	4.2	< 2
Barium	10	mg/kg	48	82	51	34
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	12	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.6	9.6	21	5.2
Cobalt	5	mg/kg	< 5	< 5	6.3	< 5
Copper	5	mg/kg	5.4	18	5.6	< 5
Iron	20	mg/kg	5800	8900	26000	5500
Lead	5	mg/kg	9.3	140	13	5.6
Manganese	5	mg/kg	170	190	68	66
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	5.8	8.3	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Vanadium	10	mg/kg	17	14	56	15
Zinc	5	mg/kg	17	360	18	5.2
% Moisture	1	%	26	18	17	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			220621-SS29	220621-D03	220621-D02	220621-D01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Jn0050637	M22-Jn0050638	M22-Jn0050639	M22-Jn0050640
Date Sampled			Jun 21, 2022	Jun 21, 2022	Jun 21, 2022	Jun 21, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	150	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	109	-	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	< 50
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100

Client Sample ID			TP09/0.5-0.6
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0050670
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5

Client Sample ID			TP09/0.5-0.6
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0050670
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76
p-Terphenyl-d14 (surr.)	1	%	51
Heavy Metals			
Antimony	10	mg/kg	< 10
Arsenic	2	mg/kg	2.9
Barium	10	mg/kg	55
Beryllium	2	mg/kg	< 2
Boron	10	mg/kg	< 10
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	19
Cobalt	5	mg/kg	7.0
Copper	5	mg/kg	9.9
Iron	20	mg/kg	23000
Lead	5	mg/kg	11
Manganese	5	mg/kg	130
Mercury	0.1	mg/kg	< 0.1
Molybdenum	5	mg/kg	< 5
Nickel	5	mg/kg	14
Selenium	2	mg/kg	< 2
Silver	2	mg/kg	< 2
Tin	10	mg/kg	< 10
Vanadium	10	mg/kg	43
Zinc	5	mg/kg	20
% Moisture	1	%	8.7
Chromium (hexavalent)	1	mg/kg	< 1
Cyanide (total)	5	mg/kg	< 5
Fluoride (Total)	100	mg/kg	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.9
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-HCH	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-HCH	0.05	mg/kg	< 0.05
d-HCH	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05

Client Sample ID			TP09/0.5-0.6
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0050670
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Endrin ketone	0.05	mg/kg	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	61
Tetrachloro-m-xylene (surr.)	1	%	82
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
Volatile Organics			
Styrene	0.5	mg/kg	< 0.5
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66
Halogenated Volatile Organics			
1.1-Dichloroethane	0.5	mg/kg	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5

Client Sample ID			TP09/0.5-0.6
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0050670
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Halogenated Volatile Organics			
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5
Bromoform	0.5	mg/kg	< 0.5
Bromomethane	0.5	mg/kg	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5
Chloroform	0.5	mg/kg	< 0.5
Chloromethane	0.5	mg/kg	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5
Iodomethane	0.5	mg/kg	< 0.5
Methylene Chloride	0.5	mg/kg	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5
4-Bromofluorobenzene (surr.)	1	%	66
Toluene-d8 (surr.)	1	%	80
Chlorinated Hydrocarbons			
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5
Benzal chloride	0.05	mg/kg	< 0.05
Benzotrichloride	0.05	mg/kg	< 0.05
Benzyl chloride	0.5	mg/kg	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5
Hexachlorocyclopentadiene	0.5	mg/kg	< 0.5
Hexachloroethane	0.5	mg/kg	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5
Tetrachloro-m-xylene (surr.)	1	%	82

Client Sample ID			TP09/0.5-0.6
Sample Matrix			Soil
Eurofins Sample No.			M22-Jn0050670
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1
Total PCB*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	61
Tetrachloro-m-xylene (surr.)	1	%	82
Phenols (Halogenated)			
2-Chlorophenol	0.5	mg/kg	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1
Pentachlorophenol	1	mg/kg	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10
Total Halogenated Phenol*	1	mg/kg	< 1
Phenols (non-Halogenated)			
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5
2-Nitrophenol	1.0	mg/kg	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4
Total cresols*	0.5	mg/kg	< 0.5
4-Nitrophenol	5	mg/kg	< 5
Dinoseb	20	mg/kg	< 20
Phenol	0.5	mg/kg	< 0.5
Phenol-d6 (surr.)	1	%	59
Total Non-Halogenated Phenol*	20	mg/kg	< 20

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Heavy Metals	Melbourne	Jun 27, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Chromium (hexavalent)	Melbourne	Jun 27, 2022	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
- Method: LTM-INO-4230 Hexavalent Chromium by UV-Vis			
Cyanide (total)	Melbourne	Jun 28, 2022	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Jun 28, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Jun 27, 2022	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Organochlorine Pesticides	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Jun 27, 2022	7 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
BTEX	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Halogenated Volatile Organics	Melbourne	Jun 27, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Chlorinated Hydrocarbons	Melbourne	Jun 27, 2022	14 Days
- Method: USEPA 8121 Chlorinated Hydrocarbons			
Polychlorinated Biphenyls	Melbourne	Jun 27, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Melbourne	Jun 27, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail	Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																														
Brisbane Laboratory - NATA # 1261 Site # 20794																														
Mayfield Laboratory - NATA # 1261 Site # 25079																														
Perth Laboratory - NATA # 2377 Site # 2370																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	BH01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050581																				X			X			
2	BH01/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050582																				X			X			
3	BH02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050583																				X		X				
4	BH03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050584																				X					X	
5	BH04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050585																				X					X	
6	BH05/0.0-0.1	Jun 21, 2022		Soil	M22-																				X						X

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050586																															
7	BH06/0.0-01	Jun 21, 2022		Soil	M22-Jn0050587																								X							X
8	TP01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050588																								X						X	
9	TP01/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050589																								X							X
10	TP01/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050590																						X	X	X							
11	TP02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050591																								X						X	
12	TP02/0.9-1.0	Jun 21, 2022		Soil	M22-Jn0050592																						X	X	X							

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Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
13	TP03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050593	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
14	TP03/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050594																								X					X	
15	TP03/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050595																								X				X		
16	TP03/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050596																						X	X	X						
17	TP04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050597																								X				X		
18	TP04/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050598																						X	X	X	X					
19	TP04/2.2-2.3	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050599																															
20	TP05/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050600																								X					X	
21	TP05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050601	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
22	TP06/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050602																								X					X	
23	TP06/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050603																								X				X			
24	TP06/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050604																						X	X	X							
25	TP07/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050605																								X					X		

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
26	TP07/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050606																								X					X	
27	TP09/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050607																								X					X	
28	TP09/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050608																						X	X	X						
29	220621-SS01	Jun 21, 2022		Soil	M22-Jn0050609																								X						X
30	220621-SS02	Jun 21, 2022		Soil	M22-Jn0050610																								X				X		
31	220621-SS03	Jun 21, 2022		Soil	M22-Jn0050611	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
32	220621-SS04	Jun 21, 2022		Soil	M22-																								X				X		

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050612																															
33	220621-SS05	Jun 21, 2022		Soil	M22-Jn0050613	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
34	220621-SS06	Jun 21, 2022		Soil	M22-Jn0050614																								X				X		
35	220621-SS07	Jun 21, 2022		Soil	M22-Jn0050615	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
36	220621-SS08	Jun 21, 2022		Soil	M22-Jn0050616																								X				X		
37	220621-SS09	Jun 21, 2022		Soil	M22-Jn0050617	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
38	220621-SS10	Jun 21, 2022		Soil	M22-Jn0050618																								X				X		

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Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
39	220621-SS11	Jun 21, 2022		Soil	M22-Jn0050619	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
40	220621-SS12	Jun 21, 2022		Soil	M22-Jn0050620																									X				X		
41	220621-SS13	Jun 21, 2022		Soil	M22-Jn0050621	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
42	220621-SS14	Jun 21, 2022		Soil	M22-Jn0050622																									X				X		
43	220621-SS15	Jun 21, 2022		Soil	M22-Jn0050623	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
44	220621-SS16	Jun 21, 2022		Soil	M22-Jn0050624																									X				X		
45	220621-SS17	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050625																															
46	220621-SS18	Jun 21, 2022		Soil	M22-Jn0050626																								X				X		
47	220621-SS19	Jun 21, 2022		Soil	M22-Jn0050627	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
48	220621-SS20	Jun 21, 2022		Soil	M22-Jn0050628																								X				X		
49	220621-SS21	Jun 21, 2022		Soil	M22-Jn0050629																								X					X	
50	220621-SS22	Jun 21, 2022		Soil	M22-Jn0050630	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
51	220621-SS23	Jun 21, 2022		Soil	M22-Jn0050631	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X						

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
52	220621-SS24	Jun 21, 2022		Soil	M22-Jn0050632	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
53	220621-SS25	Jun 21, 2022		Soil	M22-Jn0050633	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
54	220621-SS26	Jun 21, 2022		Soil	M22-Jn0050634	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X						
55	220621-SS27	Jun 21, 2022		Soil	M22-Jn0050635	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
56	220621-SS28	Jun 21, 2022		Soil	M22-Jn0050636																								X				X			
57	220621-SS29	Jun 21, 2022		Soil	M22-Jn0050637																								X				X			
58	220621-D03	Jun 21, 2022		Soil	M22-																								X					X		

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
					Jn0050638																															
59	220621-D02	Jun 21, 2022		Soil	M22-Jn0050639																								X			X				
60	220621-D01	Jun 21, 2022		Soil	M22-Jn0050640																								X	X				X		
61	220621-RB01	Jun 21, 2022		Water	M22-Jn0050641																									X				X		
62	SP01-AS01	Jun 21, 2022		Building Materials	M22-Jn0050642			X																												
63	SP01-AS03	Jun 21, 2022		Building Materials	M22-Jn0050643			X																												
64	TP03-AS01	Jun 21, 2022		Building Materials	M22-Jn0050644			X																												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
65	TP06-AS01	Jun 21, 2022		Building Materials	M22-Jn0050645			X																											
66	BH01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050646											X																				
67	BH02/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050647											X																				
68	BH03/0.2-0.3	Jun 21, 2022		Soil	M22-Jn0050648											X																				
69	BH03/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050649											X																				
70	BH04/0.3-0.4	Jun 21, 2022		Soil	M22-Jn0050650											X																				
71	BH05/0.2-0.3	Jun 21, 2022		Soil	M22-											X																				

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Priority: 5 Day
Contact Name: - [redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050651																															
72	BH05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050652											X																				
73	BH06/0.1-0.2	Jun 21, 2022		Soil	M22-Jn0050653											X																				
74	BH06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050654											X																				
75	TP01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050655											X																				
76	TP01/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050656											X																				
77	TP01/3.1-3.2	Jun 21, 2022		Soil	M22-Jn0050657											X																				

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Company Name: Beveridge Williams & Co Pty Ltd
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Order No.:
Report #: 899770
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Fax: 9524 8899

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
78	TP02/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050658											X																				
79	TP04/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050659											X																				
80	TP04/2.5-2.6	Jun 21, 2022		Soil	M22-Jn0050660											X																				
81	TP05/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050661											X																				
82	TP06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050662											X																				
83	TP06/2.9-3.0	Jun 21, 2022		Soil	M22-Jn0050663											X																				
84	TP07/0.5-0.6	Jun 21, 2022		Soil	M22-											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
					Jn0050664																															
85	TP07/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050665											X																				
86	TP08/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050666											X																				
87	TP08/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050667											X																				
88	TP08/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050668											X																				
89	TP08/1.5-1.6	Jun 21, 2022		Soil	M22-Jn0050669											X																				
90	TP09/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050670																								X							X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
91	TP09/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050671											X																				
92	TP09/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050672											X																				
93	220621-D04	Jun 21, 2022		Soil	M22-Jn0050673											X																				
94	SP01-AS02	Jun 21, 2022		Building Materials	M22-Jn0050674											X																				
95	SP01-AS04	Jun 21, 2022		Building Materials	M22-Jn0050675											X																				
96	SP01-AS05	Jun 21, 2022		Building Materials	M22-Jn0050676											X																				
97	AF01	Jun 21, 2022		Building	M22-											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
				Materials	Jn0050677																															
98	AS01	Jun 21, 2022		Building Materials	M22-Jn0050711											X																				
99	AS02	Jun 21, 2022		Building Materials	M22-Jn0050712											X																				
Test Counts						18	18	4	18	18	18	18	18	18	18	33	18	18	18	18	18	18	18	18	18	18	8	8	61	6	1	6	14	12	5

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Antimony	mg/kg	< 10			10	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Barium	mg/kg	< 10			10	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	
Vanadium	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride (Total)	mg/kg	< 100			100	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
Styrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Halogenated Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chlorinated Hydrocarbons							
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Benzal chloride	mg/kg	< 0.05			0.05	Pass	
Benzotrichloride	mg/kg	< 0.05			0.05	Pass	
Benzyl chloride	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 0.5			0.5	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	110			70-130	Pass	
Anthracene	%	75			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	100			70-130	Pass	
Benzo(b&j)fluoranthene	%	81			70-130	Pass	
Benzo(g.h.i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	107			70-130	Pass	
Chrysene	%	78			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	104			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Antimony	%	106			80-120	Pass	
Arsenic	%	106			80-120	Pass	
Barium	%	106			80-120	Pass	
Beryllium	%	92			80-120	Pass	
Boron	%	103			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	110			80-120	Pass	
Cobalt	%	111			80-120	Pass	
Copper	%	109			80-120	Pass	
Iron	%	120			80-120	Pass	
Lead	%	113			80-120	Pass	
Manganese	%	110			80-120	Pass	
Mercury	%	108			80-120	Pass	
Molybdenum	%	108			80-120	Pass	
Nickel	%	104			80-120	Pass	
Selenium	%	106			80-120	Pass	
Silver	%	110			80-120	Pass	
Tin	%	103			80-120	Pass	
Vanadium	%	109			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc	%	109			80-120	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	89			70-130	Pass	
Cyanide (total)	%	82			70-130	Pass	
Fluoride (Total)	%	121			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	111			70-130	Pass	
4.4'-DDD	%	109			70-130	Pass	
4.4'-DDE	%	93			70-130	Pass	
4.4'-DDT	%	83			70-130	Pass	
a-HCH	%	108			70-130	Pass	
Aldrin	%	114			70-130	Pass	
b-HCH	%	80			70-130	Pass	
d-HCH	%	110			70-130	Pass	
Dieldrin	%	80			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	116			70-130	Pass	
Endosulfan sulphate	%	82			70-130	Pass	
Endrin	%	119			70-130	Pass	
Endrin aldehyde	%	87			70-130	Pass	
Endrin ketone	%	114			70-130	Pass	
g-HCH (Lindane)	%	113			70-130	Pass	
Heptachlor	%	90			70-130	Pass	
Heptachlor epoxide	%	115			70-130	Pass	
Hexachlorobenzene	%	117			70-130	Pass	
Methoxychlor	%	82			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	122			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	121			70-130	Pass	
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	106			70-130	Pass	
Toluene	%	109			70-130	Pass	
Ethylbenzene	%	114			70-130	Pass	
m&p-Xylenes	%	112			70-130	Pass	
Xylenes - Total*	%	112			70-130	Pass	
LCS - % Recovery							
Halogenated Volatile Organics							
1.1-Dichloroethene	%	113			70-130	Pass	
1.1.1-Trichloroethane	%	89			70-130	Pass	
1.2-Dichlorobenzene	%	120			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Trichloroethene	%	83			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	54			25-140	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-Dichlorophenol			%	53			25-140	Pass	
2.4.5-Trichlorophenol			%	42			25-140	Pass	
2.4.6-Trichlorophenol			%	68			25-140	Pass	
2.6-Dichlorophenol			%	29			25-140	Pass	
4-Chloro-3-methylphenol			%	84			25-140	Pass	
Pentachlorophenol			%	96			25-140	Pass	
Tetrachlorophenols - Total			%	32			25-140	Pass	
LCS - % Recovery									
Phenols (non-Halogenated)									
2-Cyclohexyl-4.6-dinitrophenol			%	33			25-140	Pass	
2-Methyl-4.6-dinitrophenol			%	95			25-140	Pass	
2-Nitrophenol			%	89			25-140	Pass	
2.4-Dimethylphenol			%	49			25-140	Pass	
2.4-Dinitrophenol			%	48			25-140	Pass	
2-Methylphenol (o-Cresol)			%	46			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)			%	49			25-140	Pass	
4-Nitrophenol			%	52			25-140	Pass	
Dinoseb			%	78			25-140	Pass	
Phenol			%	40			25-140	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	M22-Jn0047302	NCP	%	93			75-125	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M22-Jn0053226	NCP	%	78			70-130	Pass	
Fluoride (Total)	M22-Jn0053358	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M22-Jn0050158	NCP	%	78			70-130	Pass	
Aroclor-1260	M22-Jn0050158	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M22-Jn0057014	NCP	%	63			30-130	Pass	
2-Methyl-4.6-dinitrophenol	M22-Jn0057014	NCP	%	70			30-130	Pass	
4-Nitrophenol	M22-Jn0057014	NCP	%	64			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Jn0050587	CP	%	111			70-130	Pass	
TRH C10-C14	M22-Jn0050587	CP	%	77			70-130	Pass	
Naphthalene	M22-Jn0050587	CP	%	84			70-130	Pass	
TRH C6-C10	M22-Jn0050587	CP	%	112			70-130	Pass	
TRH >C10-C16	M22-Jn0050587	CP	%	74			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M22-Jn0050587	CP	%	91			70-130	Pass	
Toluene	M22-Jn0050587	CP	%	100			70-130	Pass	
Ethylbenzene	M22-Jn0050587	CP	%	103			70-130	Pass	
m&p-Xylenes	M22-Jn0050587	CP	%	103			70-130	Pass	
o-Xylene	M22-Jn0050587	CP	%	104			70-130	Pass	
Xylenes - Total*	M22-Jn0050587	CP	%	103			70-130	Pass	
Spike - % Recovery									
Halogenated Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Jn0050587	CP	%	76			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	M22-Jn0050587	CP	%	94			70-130	Pass	
1.2-Dichlorobenzene	M22-Jn0050587	CP	%	114			70-130	Pass	
1.2-Dichloroethane	M22-Jn0050587	CP	%	114			70-130	Pass	
Trichloroethene	M22-Jn0050587	CP	%	71			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-Jn0050600	CP	%	86			70-130	Pass	
Acenaphthylene	M22-Jn0050600	CP	%	84			70-130	Pass	
Anthracene	M22-Jn0050600	CP	%	82			70-130	Pass	
Benz(a)anthracene	M22-Jn0050600	CP	%	105			70-130	Pass	
Benzo(a)pyrene	M22-Jn0050600	CP	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	M22-Jn0050600	CP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	M22-Jn0050600	CP	%	81			70-130	Pass	
Benzo(k)fluoranthene	M22-Jn0050600	CP	%	81			70-130	Pass	
Chrysene	M22-Jn0050600	CP	%	76			70-130	Pass	
Dibenz(a.h)anthracene	M22-Jn0050600	CP	%	79			70-130	Pass	
Fluoranthene	M22-Jn0050600	CP	%	80			70-130	Pass	
Fluorene	M22-Jn0050600	CP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0050600	CP	%	78			70-130	Pass	
Naphthalene	M22-Jn0050600	CP	%	83			70-130	Pass	
Phenanthrene	M22-Jn0050600	CP	%	73			70-130	Pass	
Pyrene	M22-Jn0050600	CP	%	80			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-Jn0050604	CP	%	102			70-130	Pass	
4.4'-DDD	M22-Jn0050604	CP	%	111			70-130	Pass	
4.4'-DDE	M22-Jn0050604	CP	%	98			70-130	Pass	
4.4'-DDT	M22-Jn0050604	CP	%	105			70-130	Pass	
a-HCH	M22-Jn0050604	CP	%	110			70-130	Pass	
Aldrin	M22-Jn0050604	CP	%	104			70-130	Pass	
b-HCH	M22-Jn0050604	CP	%	98			70-130	Pass	
d-HCH	M22-Jn0050604	CP	%	91			70-130	Pass	
Dieldrin	M22-Jn0050604	CP	%	86			70-130	Pass	
Endosulfan I	M22-Jn0050604	CP	%	127			70-130	Pass	
Endosulfan II	M22-Jn0050604	CP	%	127			70-130	Pass	
Endosulfan sulphate	M22-Jn0050604	CP	%	105			70-130	Pass	
Endrin	M22-Jn0050604	CP	%	87			70-130	Pass	
Endrin aldehyde	M22-Jn0050604	CP	%	123			70-130	Pass	
Endrin ketone	M22-Jn0050604	CP	%	112			70-130	Pass	
g-HCH (Lindane)	M22-Jn0050604	CP	%	105			70-130	Pass	
Heptachlor	M22-Jn0050604	CP	%	93			70-130	Pass	
Heptachlor epoxide	M22-Jn0050604	CP	%	105			70-130	Pass	
Hexachlorobenzene	M22-Jn0050604	CP	%	112			70-130	Pass	
Methoxychlor	M22-Jn0050604	CP	%	106			70-130	Pass	
Spike - % Recovery									
Chlorinated Hydrocarbons				Result 1					
Hexachlorobenzene	M22-Jn0050604	CP	%	112			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M22-Jn0053073	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-Jn0050612	CP	%	100			70-130	Pass	
Acenaphthylene	M22-Jn0050612	CP	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Anthracene	M22-Jn0050612	CP	%	91			70-130	Pass	
Benz(a)anthracene	M22-Jn0050612	CP	%	94			70-130	Pass	
Benzo(a)pyrene	M22-Jn0050612	CP	%	80			70-130	Pass	
Benzo(b&j)fluoranthene	M22-Jn0050612	CP	%	116			70-130	Pass	
Benzo(g.h.i)perylene	M22-Jn0050612	CP	%	75			70-130	Pass	
Benzo(k)fluoranthene	M22-Jn0050612	CP	%	89			70-130	Pass	
Chrysene	M22-Jn0050612	CP	%	83			70-130	Pass	
Dibenz(a.h)anthracene	M22-Jn0050612	CP	%	85			70-130	Pass	
Fluoranthene	M22-Jn0050612	CP	%	93			70-130	Pass	
Fluorene	M22-Jn0050612	CP	%	75			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0050612	CP	%	85			70-130	Pass	
Naphthalene	M22-Jn0050612	CP	%	90			70-130	Pass	
Phenanthrene	M22-Jn0050612	CP	%	102			70-130	Pass	
Pyrene	M22-Jn0050612	CP	%	93			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M22-Jn0050612	CP	%	51			30-130	Pass	
2.4-Dichlorophenol	M22-Jn0050612	CP	%	51			30-130	Pass	
2.4.5-Trichlorophenol	M22-Jn0050612	CP	%	61			30-130	Pass	
2.4.6-Trichlorophenol	M22-Jn0050612	CP	%	39			30-130	Pass	
2.6-Dichlorophenol	M22-Jn0050612	CP	%	32			30-130	Pass	
4-Chloro-3-methylphenol	M22-Jn0050612	CP	%	35			30-130	Pass	
Pentachlorophenol	M22-Jn0050612	CP	%	38			30-130	Pass	
Tetrachlorophenols - Total	M22-Jn0050612	CP	%	65			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Nitrophenol	M22-Jn0050612	CP	%	88			30-130	Pass	
2.4-Dimethylphenol	M22-Jn0050612	CP	%	38			30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Jn0050612	CP	%	36			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Jn0050612	CP	%	44			30-130	Pass	
Dinoseb	M22-Jn0050612	CP	%	56			30-130	Pass	
Phenol	M22-Jn0050612	CP	%	41			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-Jn0050613	CP	%	123			75-125	Pass	
Barium	M22-Jn0050613	CP	%	129			75-125	Fail	Q08
Beryllium	M22-Jn0050613	CP	%	113			75-125	Pass	
Boron	M22-Jn0050613	CP	%	124			75-125	Pass	
Cadmium	M22-Jn0050613	CP	%	120			75-125	Pass	
Manganese	M22-Jn0050613	CP	%	130			75-125	Fail	Q08
Mercury	M22-Jn0050613	CP	%	76			75-125	Pass	
Nickel	M22-Jn0050613	CP	%	129			75-125	Fail	Q08
Selenium	M22-Jn0050613	CP	%	116			75-125	Pass	
Silver	M22-Jn0050613	CP	%	124			75-125	Pass	
Tin	M22-Jn0050613	CP	%	130			75-125	Fail	Q08
Zinc	M22-Jn0050613	CP	%	122			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-Jn0050622	CP	%	96			70-130	Pass	
4.4'-DDD	M22-Jn0050622	CP	%	123			70-130	Pass	
4.4'-DDE	M22-Jn0050622	CP	%	113			70-130	Pass	
4.4'-DDT	M22-Jn0050622	CP	%	78			70-130	Pass	
a-HCH	M22-Jn0050622	CP	%	84			70-130	Pass	
Aldrin	M22-Jn0050622	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	M22-Jn0050622	CP	%	83			70-130	Pass	
d-HCH	M22-Jn0050622	CP	%	73			70-130	Pass	
Dieldrin	M22-Jn0050622	CP	%	87			70-130	Pass	
Endosulfan I	M22-Jn0050622	CP	%	100			70-130	Pass	
Endosulfan II	M22-Jn0050622	CP	%	93			70-130	Pass	
Endosulfan sulphate	M22-Jn0050622	CP	%	85			70-130	Pass	
Endrin	M22-Jn0050622	CP	%	84			70-130	Pass	
Endrin aldehyde	M22-Jn0050622	CP	%	101			70-130	Pass	
Endrin ketone	M22-Jn0050622	CP	%	96			70-130	Pass	
g-HCH (Lindane)	M22-Jn0050622	CP	%	109			70-130	Pass	
Heptachlor	M22-Jn0050622	CP	%	98			70-130	Pass	
Heptachlor epoxide	M22-Jn0050622	CP	%	108			70-130	Pass	
Hexachlorobenzene	M22-Jn0050622	CP	%	117			70-130	Pass	
Methoxychlor	M22-Jn0050622	CP	%	71			70-130	Pass	
Spike - % Recovery									
Chlorinated Hydrocarbons				Result 1					
Hexachlorobenzene	M22-Jn0050622	CP	%	117			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Antimony	M22-Jn0050624	CP	%	96			75-125	Pass	
Arsenic	M22-Jn0050624	CP	%	95			75-125	Pass	
Barium	M22-Jn0050624	CP	%	83			75-125	Pass	
Beryllium	M22-Jn0050624	CP	%	86			75-125	Pass	
Boron	M22-Jn0050624	CP	%	100			75-125	Pass	
Cadmium	M22-Jn0050624	CP	%	97			75-125	Pass	
Chromium	M22-Jn0050624	CP	%	99			75-125	Pass	
Cobalt	M22-Jn0050624	CP	%	101			75-125	Pass	
Copper	M22-Jn0050624	CP	%	98			75-125	Pass	
Lead	M22-Jn0050624	CP	%	102			75-125	Pass	
Manganese	M22-Jn0050624	CP	%	82			75-125	Pass	
Mercury	M22-Jn0050624	CP	%	96			75-125	Pass	
Molybdenum	M22-Jn0050624	CP	%	101			75-125	Pass	
Nickel	M22-Jn0050624	CP	%	95			75-125	Pass	
Selenium	M22-Jn0050624	CP	%	96			75-125	Pass	
Silver	M22-Jn0050624	CP	%	102			75-125	Pass	
Tin	M22-Jn0050624	CP	%	98			75-125	Pass	
Vanadium	M22-Jn0050624	CP	%	99			75-125	Pass	
Zinc	M22-Jn0050624	CP	%	96			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0050586	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M22-Jn0050586	CP	mg/kg	28	30	9.0	30%	Pass	
Barium	M22-Jn0050586	CP	mg/kg	97	96	1.0	30%	Pass	
Beryllium	M22-Jn0050586	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M22-Jn0050586	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Chromium	M22-Jn0050586	CP	mg/kg	23	23	<1	30%	Pass	
Cobalt	M22-Jn0050586	CP	mg/kg	11	11	5.0	30%	Pass	
Copper	M22-Jn0050586	CP	mg/kg	28	31	10	30%	Pass	
Iron	M22-Jn0050586	CP	mg/kg	18000	20000	11	30%	Pass	
Lead	M22-Jn0050586	CP	mg/kg	150	160	3.0	30%	Pass	
Manganese	M22-Jn0050586	CP	mg/kg	330	320	4.0	30%	Pass	
Mercury	M22-Jn0050586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0050586	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	M22-Jn0050586	CP	mg/kg	45	46	2.0	30%	Pass	
Selenium	M22-Jn0050586	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0050586	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0050586	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Vanadium	M22-Jn0050586	CP	mg/kg	29	23	23	30%	Pass	
Zinc	M22-Jn0050586	CP	mg/kg	1400	1500	9.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M22-Jn0050478	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Cyanide (total)	M22-Jn0051531	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Fluoride (Total)	M22-Jn0050202	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Jn0050586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Jn0050586	CP	mg/kg	< 20	24	42	30%	Fail	Q15
TRH C15-C28	M22-Jn0050586	CP	mg/kg	97	260	93	30%	Fail	Q15
TRH C29-C36	M22-Jn0050586	CP	mg/kg	57	240	120	30%	Fail	Q15
Naphthalene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Jn0050586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Jn0050586	CP	mg/kg	< 50	50	62	30%	Fail	Q15
TRH >C16-C34	M22-Jn0050586	CP	mg/kg	130	390	100	30%	Fail	Q15
TRH >C34-C40	M22-Jn0050586	CP	mg/kg	< 100	120	150	30%	Fail	Q15
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Styrene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M22-Jn0050586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M22-Jn0050586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M22-Jn0050586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M22-Jn0050586	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M22-Jn0050586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M22-Jn0050586	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Halogenated Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Halogenated Volatile Organics				Result 1	Result 2	RPD			
Carbon Tetrachloride	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Jn0050586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0050598	CP	%	13	12	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0050608	CP	%	13	12	4.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Chlorinated Hydrocarbons				Result 1	Result 2	RPD			
1.2-Dichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzal chloride	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Benzotrichloride	M22-Jn0050610	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Benzyl chloride	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachloroethane	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M22-Jn0050610	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M22-Jn0050610	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M22-Jn0050610	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M22-Jn0050610	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M22-Jn0050610	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M22-Jn0050610	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M22-Jn0050610	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M22-Jn0050610	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-Jn0050610	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2.4-Dinitrophenol	M22-Jn0050610	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M22-Jn0050610	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Jn0050610	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-Jn0050610	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-Jn0050610	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-Jn0050610	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0050612	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M22-Jn0050612	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Barium	M22-Jn0050612	CP	mg/kg	34	32	5.0	30%	Pass	
Beryllium	M22-Jn0050612	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M22-Jn0050612	CP	mg/kg	11	< 10	77	30%	Fail	Q15
Cadmium	M22-Jn0050612	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0050612	CP	mg/kg	5.1	< 5	6.0	30%	Pass	
Cobalt	M22-Jn0050612	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M22-Jn0050612	CP	mg/kg	5.8	5.6	3.0	30%	Pass	
Iron	M22-Jn0050612	CP	mg/kg	5000	5400	7.0	30%	Pass	
Lead	M22-Jn0050612	CP	mg/kg	6.3	6.3	1.0	30%	Pass	
Manganese	M22-Jn0050612	CP	mg/kg	29	30	5.0	30%	Pass	
Mercury	M22-Jn0050612	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0050612	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0050612	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M22-Jn0050612	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0050612	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0050612	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Vanadium	M22-Jn0050612	CP	mg/kg	18	18	<1	30%	Pass	
Zinc	M22-Jn0050612	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0050613	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M22-Jn0050613	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Barium	M22-Jn0050613	CP	mg/kg	34	33	1.0	30%	Pass	
Beryllium	M22-Jn0050613	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M22-Jn0050613	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M22-Jn0050613	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0050613	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M22-Jn0050613	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M22-Jn0050613	CP	mg/kg	7.1	7.2	<1	30%	Pass	
Iron	M22-Jn0050613	CP	mg/kg	3000	3000	2.0	30%	Pass	
Lead	M22-Jn0050613	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M22-Jn0050613	CP	mg/kg	52	51	1.0	30%	Pass	
Mercury	M22-Jn0050613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0050613	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0050613	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M22-Jn0050613	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0050613	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0050613	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Vanadium	M22-Jn0050613	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Jn0050613	CP	mg/kg	5.1	5.6	10	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0050619	CP	%	24	20	20	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-Jn0050620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Chlorinated Hydrocarbons				Result 1	Result 2	RPD			
Hexachlorobenzene	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M22-Jn0050620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M22-Jn0050620	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M22-Jn0050620	CP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chloro-3-methylphenol	M22-Jn0050620	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M22-Jn0050620	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M22-Jn0050620	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M22-Jn0050620	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M22-Jn0050620	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-Jn0050620	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M22-Jn0050620	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M22-Jn0050620	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Jn0050620	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-Jn0050620	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-Jn0050620	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-Jn0050620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0050623	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M22-Jn0050623	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Barium	M22-Jn0050623	CP	mg/kg	38	39	2.0	30%	Pass	
Beryllium	M22-Jn0050623	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M22-Jn0050623	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M22-Jn0050623	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0050623	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M22-Jn0050623	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M22-Jn0050623	CP	mg/kg	12	12	5.0	30%	Pass	
Iron	M22-Jn0050623	CP	mg/kg	5500	4800	14	30%	Pass	
Lead	M22-Jn0050623	CP	mg/kg	6.0	6.1	2.0	30%	Pass	
Manganese	M22-Jn0050623	CP	mg/kg	89	87	2.0	30%	Pass	
Mercury	M22-Jn0050623	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0050623	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0050623	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M22-Jn0050623	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0050623	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0050623	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Vanadium	M22-Jn0050623	CP	mg/kg	16	15	4.0	30%	Pass	
Zinc	M22-Jn0050623	CP	mg/kg	8.1	8.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0050624	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M22-Jn0050624	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Barium	M22-Jn0050624	CP	mg/kg	35	36	2.0	30%	Pass	
Beryllium	M22-Jn0050624	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M22-Jn0050624	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M22-Jn0050624	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Jn0050624	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M22-Jn0050624	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M22-Jn0050624	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Iron	M22-Jn0050624	CP	mg/kg	3500	3500	1.0	30%	Pass	
Lead	M22-Jn0050624	CP	mg/kg	5.8	5.8	1.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Manganese	M22-Jn0050624	CP	mg/kg	26	26	1.0	30%	Pass	
Mercury	M22-Jn0050624	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Jn0050624	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Jn0050624	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M22-Jn0050624	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Jn0050624	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Jn0050624	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Vanadium	M22-Jn0050624	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Jn0050624	CP	mg/kg	5.5	6.1	9.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0050629	CP	%	16	17	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0050639	CP	%	17	17	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Jn0060391	NCP	pH Units	7.2	7.0	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Jn0050670	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Jn0050670	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Styrene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M22-Jn0050670	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M22-Jn0050670	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M22-Jn0050670	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M22-Jn0050670	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M22-Jn0050670	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M22-Jn0050670	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Halogenated Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Halogenated Volatile Organics				Result 1	Result 2	RPD			
Carbon Tetrachloride	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Jn0050670	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

V2: Report amended to include iron results for all soil samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

[redacted]

Analytical Services Manager
Senior Analyst-Inorganic
Senior Analyst-Volatile
Senior Analyst-Organic
Senior Analyst-Volatile
Senior Analyst-Organic
Senior Analyst-Sample Properties
Senior Analyst-Inorganic
Senior Analyst-Metal
Senior Analyst-Asbestos
Senior Analyst-Inorganic
Senior Analyst-Metal
Senior Analyst-Volatile

[redacted]

General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Beveridge William & Co Pty Ltd
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VIC 3144

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: -[redacted]

Report **899770-W-V2**
Project name PRELIMINARY CONTAMINATION ASSESSMENT
Project ID 2101947
Received Date Jun 22, 2022

Client Sample ID			**220621-RB01**
Sample Matrix			**Water**
Eurofins Sample No.			**M22-Jn0050641**
Date Sampled			**Jun 21, 2022**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
Naphthalene[N02]	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	80
p-Terphenyl-d14 (surr.)	1	%	90

Client Sample ID			220621-RB01
Sample Matrix			Water
Eurofins Sample No.			M22-Jn0050641
Date Sampled			Jun 21, 2022
Test/Reference	LOR	Unit	
Heavy Metals			
Antimony	0.005	mg/L	< 0.005
Arsenic	0.001	mg/L	< 0.001
Barium	0.02	mg/L	< 0.02
Beryllium	0.001	mg/L	< 0.001
Boron	0.05	mg/L	< 0.05
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Cobalt	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Manganese	0.005	mg/L	< 0.005
Mercury	0.0001	mg/L	< 0.0001
Molybdenum	0.005	mg/L	< 0.005
Nickel	0.001	mg/L	< 0.001
Selenium	0.001	mg/L	< 0.001
Silver	0.005	mg/L	< 0.005
Tin	0.005	mg/L	< 0.005
Vanadium	0.005	mg/L	< 0.005
Zinc	0.005	mg/L	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jun 22, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 22, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jun 22, 2022	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jun 22, 2022	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Heavy Metals	Melbourne	Jun 22, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail	Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																														
Brisbane Laboratory - NATA # 1261 Site # 20794																														
Mayfield Laboratory - NATA # 1261 Site # 25079																														
Perth Laboratory - NATA # 2377 Site # 2370																														
External Laboratory																														

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																										
1	BH01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050581																				X			X			
2	BH01/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050582																				X			X			
3	BH02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050583																				X		X				
4	BH03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050584																				X					X	
5	BH04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050585																				X					X	
6	BH05/0.0-0.1	Jun 21, 2022		Soil	M22-																				X						X

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050586																															
7	BH06/0.0-01	Jun 21, 2022		Soil	M22-Jn0050587																								X							X
8	TP01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050588																								X						X	
9	TP01/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050589																								X							X
10	TP01/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050590																						X	X	X							
11	TP02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050591																								X						X	
12	TP02/0.9-1.0	Jun 21, 2022		Soil	M22-Jn0050592																						X	X	X							

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
13	TP03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050593	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
14	TP03/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050594																								X					X	
15	TP03/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050595																								X			X			
16	TP03/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050596																						X	X	X						
17	TP04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050597																								X			X			
18	TP04/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050598																						X	X	X	X					
19	TP04/2.2-2.3	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
					Jn0050599																															
20	TP05/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050600																								X					X	
21	TP05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050601	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
22	TP06/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050602																								X					X	
23	TP06/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050603																								X				X			
24	TP06/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050604																						X	X	X							
25	TP07/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050605																								X					X		

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Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
26	TP07/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050606																								X					X	
27	TP09/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050607																								X					X	
28	TP09/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050608																						X	X	X						
29	220621-SS01	Jun 21, 2022		Soil	M22-Jn0050609																								X						X
30	220621-SS02	Jun 21, 2022		Soil	M22-Jn0050610																								X				X		
31	220621-SS03	Jun 21, 2022		Soil	M22-Jn0050611	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
32	220621-SS04	Jun 21, 2022		Soil	M22-																								X				X		

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050612																															
33	220621-SS05	Jun 21, 2022		Soil	M22-Jn0050613	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
34	220621-SS06	Jun 21, 2022		Soil	M22-Jn0050614																								X				X		
35	220621-SS07	Jun 21, 2022		Soil	M22-Jn0050615	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
36	220621-SS08	Jun 21, 2022		Soil	M22-Jn0050616																								X				X		
37	220621-SS09	Jun 21, 2022		Soil	M22-Jn0050617	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
38	220621-SS10	Jun 21, 2022		Soil	M22-Jn0050618																								X				X		

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
39	220621-SS11	Jun 21, 2022		Soil	M22-Jn0050619	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
40	220621-SS12	Jun 21, 2022		Soil	M22-Jn0050620																									X				X		
41	220621-SS13	Jun 21, 2022		Soil	M22-Jn0050621	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
42	220621-SS14	Jun 21, 2022		Soil	M22-Jn0050622																									X				X		
43	220621-SS15	Jun 21, 2022		Soil	M22-Jn0050623	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
44	220621-SS16	Jun 21, 2022		Soil	M22-Jn0050624																									X				X		
45	220621-SS17	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050625																															
46	220621-SS18	Jun 21, 2022		Soil	M22-Jn0050626																								X				X		
47	220621-SS19	Jun 21, 2022		Soil	M22-Jn0050627	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
48	220621-SS20	Jun 21, 2022		Soil	M22-Jn0050628																								X				X		
49	220621-SS21	Jun 21, 2022		Soil	M22-Jn0050629																								X					X	
50	220621-SS22	Jun 21, 2022		Soil	M22-Jn0050630	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
51	220621-SS23	Jun 21, 2022		Soil	M22-Jn0050631	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X						

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Eurofins Analytical Services Manager : [redacted]

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
52	220621-SS24	Jun 21, 2022		Soil	M22-Jn0050632	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
53	220621-SS25	Jun 21, 2022		Soil	M22-Jn0050633	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
54	220621-SS26	Jun 21, 2022		Soil	M22-Jn0050634	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X						
55	220621-SS27	Jun 21, 2022		Soil	M22-Jn0050635	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X						
56	220621-SS28	Jun 21, 2022		Soil	M22-Jn0050636																								X				X			
57	220621-SS29	Jun 21, 2022		Soil	M22-Jn0050637																								X				X			
58	220621-D03	Jun 21, 2022		Soil	M22-																								X					X		

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050638																															
59	220621-D02	Jun 21, 2022		Soil	M22-Jn0050639																								X			X				
60	220621-D01	Jun 21, 2022		Soil	M22-Jn0050640																								X	X				X		
61	220621-RB01	Jun 21, 2022		Water	M22-Jn0050641																									X				X		
62	SP01-AS01	Jun 21, 2022		Building Materials	M22-Jn0050642			X																												
63	SP01-AS03	Jun 21, 2022		Building Materials	M22-Jn0050643			X																												
64	TP03-AS01	Jun 21, 2022		Building Materials	M22-Jn0050644			X																												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
65	TP06-AS01	Jun 21, 2022		Building Materials	M22-Jn0050645			X																											
66	BH01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050646											X																				
67	BH02/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050647											X																				
68	BH03/0.2-0.3	Jun 21, 2022		Soil	M22-Jn0050648											X																				
69	BH03/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050649											X																				
70	BH04/0.3-0.4	Jun 21, 2022		Soil	M22-Jn0050650											X																				
71	BH05/0.2-0.3	Jun 21, 2022		Soil	M22-											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050651																															
72	BH05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050652											X																				
73	BH06/0.1-0.2	Jun 21, 2022		Soil	M22-Jn0050653											X																				
74	BH06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050654											X																				
75	TP01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050655											X																				
76	TP01/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050656											X																				
77	TP01/3.1-3.2	Jun 21, 2022		Soil	M22-Jn0050657											X																				

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Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
78	TP02/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050658											X																				
79	TP04/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050659											X																				
80	TP04/2.5-2.6	Jun 21, 2022		Soil	M22-Jn0050660											X																				
81	TP05/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050661											X																				
82	TP06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050662											X																				
83	TP06/2.9-3.0	Jun 21, 2022		Soil	M22-Jn0050663											X																				
84	TP07/0.5-0.6	Jun 21, 2022		Soil	M22-											X																				

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
					Jn0050664																															
85	TP07/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050665											X																				
86	TP08/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050666											X																				
87	TP08/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050667											X																				
88	TP08/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050668											X																				
89	TP08/1.5-1.6	Jun 21, 2022		Soil	M22-Jn0050669											X																				
90	TP09/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050670																								X							X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
91	TP09/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050671											X																				
92	TP09/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050672											X																				
93	220621-D04	Jun 21, 2022		Soil	M22-Jn0050673											X																				
94	SP01-AS02	Jun 21, 2022		Building Materials	M22-Jn0050674											X																				
95	SP01-AS04	Jun 21, 2022		Building Materials	M22-Jn0050675											X																				
96	SP01-AS05	Jun 21, 2022		Building Materials	M22-Jn0050676											X																				
97	AF01	Jun 21, 2022		Building	M22-											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
				Materials	Jn0050677																															
98	AS01	Jun 21, 2022		Building Materials	M22-Jn0050711											X																				
99	AS02	Jun 21, 2022		Building Materials	M22-Jn0050712											X																				
Test Counts						18	18	4	18	18	18	18	18	18	18	33	18	18	18	18	18	18	18	18	18	18	8	8	61	6	1	6	14	12	5

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Antimony	mg/L	< 0.005			0.005	Pass	
Arsenic	mg/L	< 0.001			0.001	Pass	
Barium	mg/L	< 0.02			0.02	Pass	
Beryllium	mg/L	< 0.001			0.001	Pass	
Boron	mg/L	< 0.05			0.05	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Cobalt	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Manganese	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Molybdenum	mg/L	< 0.005			0.005	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Selenium	mg/L	< 0.001			0.001	Pass	
Silver	mg/L	< 0.005			0.005	Pass	
Tin	mg/L	< 0.005			0.005	Pass	
Vanadium	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
TRH C6-C10	%	119			70-130	Pass	
TRH >C10-C16	%	84			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	88			70-130	Pass	
Anthracene	%	71			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	%	92			70-130	Pass	
Benzo(g.h.i)perylene	%	79			70-130	Pass	
Benzo(k)fluoranthene	%	77			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	76			70-130	Pass	
Fluoranthene	%	107			70-130	Pass	
Fluorene	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	74			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Antimony	%	96			80-120	Pass	
Arsenic	%	92			80-120	Pass	
Barium	%	94			80-120	Pass	
Beryllium	%	90			80-120	Pass	
Boron	%	98			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	95			80-120	Pass	
Cobalt	%	95			80-120	Pass	
Copper	%	94			80-120	Pass	
Lead	%	96			80-120	Pass	
Manganese	%	95			80-120	Pass	
Mercury	%	94			80-120	Pass	
Molybdenum	%	91			80-120	Pass	
Nickel	%	95			80-120	Pass	
Selenium	%	92			80-120	Pass	
Silver	%	89			80-120	Pass	
Tin	%	96			80-120	Pass	
Vanadium	%	92			80-120	Pass	
Zinc	%	95			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Jn0047288	NCP	%	128			70-130	Pass	
TRH C10-C14	M22-Jn0040967	NCP	%	101			70-130	Pass	
Naphthalene	M22-Jn0047288	NCP	%	98			70-130	Pass	
TRH C6-C10	M22-Jn0047288	NCP	%	128			70-130	Pass	
TRH >C10-C16	M22-Jn0040967	NCP	%	106			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Antimony	M22-Jn0045859	NCP	%	87			75-125	Pass	
Arsenic	M22-Jn0045859	NCP	%	86			75-125	Pass	
Barium	M22-Jn0045859	NCP	%	85			75-125	Pass	
Beryllium	M22-Jn0045859	NCP	%	91			75-125	Pass	
Boron	M22-Jn0045859	NCP	%	77			75-125	Pass	
Cadmium	M22-Jn0045859	NCP	%	92			75-125	Pass	
Chromium	M22-Jn0045859	NCP	%	87			75-125	Pass	
Cobalt	M22-Jn0045859	NCP	%	87			75-125	Pass	
Copper	M22-Jn0045859	NCP	%	87			75-125	Pass	
Lead	M22-Jn0045859	NCP	%	89			75-125	Pass	
Manganese	M22-Jn0045859	NCP	%	87			75-125	Pass	
Mercury	M22-Jn0045859	NCP	%	87			75-125	Pass	
Molybdenum	M22-Jn0049537	NCP	%	66			75-125	Fail	Q08
Nickel	M22-Jn0045859	NCP	%	87			75-125	Pass	
Selenium	M22-Jn0045859	NCP	%	91			75-125	Pass	
Silver	M22-Jn0049537	NCP	%	73			75-125	Fail	Q08
Tin	M22-Jn0049537	NCP	%	71			75-125	Fail	Q08
Vanadium	M22-Jn0045859	NCP	%	81			75-125	Pass	
Zinc	M22-Jn0045859	NCP	%	85			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Jn0048062	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	M22-Jn0047280	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M22-Jn0047280	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M22-Jn0047280	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	M22-Jn0048062	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M22-Jn0048062	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	M22-Jn0047280	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M22-Jn0047280	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M22-Jn0047280	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	B22-Jn0059690	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Arsenic	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Barium	M22-Jn0045859	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Beryllium	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Boron	M22-Jn0045859	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Cadmium	M22-Jn0045859	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cobalt	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Manganese	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Mercury	M22-Jn0045859	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Molybdenum	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nickel	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Selenium	M22-Jn0045859	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Silver	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Tin	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vanadium	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	M22-Jn0045859	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

V2: Report amended to include iron results for all soil samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-Volatile
[redacted] Senior Analyst-Organic
[redacted] Senior Analyst-Metal

[redacted]
General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

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PO Box 61
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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	- [redacted]
Report	899770-AID-V2
Project Name	PRELIMINARY CONTAMINATION ASSESSMENT
Project ID	2101947
Received Date	Jun 22, 2022
Date Reported	Jun 30, 2022

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PRELIMINARY CONTAMINATION ASSESSMENT
Project ID 2101947
Date Sampled Jun 21, 2022
Report 899770-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SP01-AS01	22-Jn0050642	Jun 21, 2022	Approximate Sample 28g / 50 x 40 x 5 Sample consisted of: Cement sheet	No asbestos detected. Organic fibres detected. No trace asbestos detected.
SP01-AS03	22-Jn0050643	Jun 21, 2022	Approximate Sample 9g / 40 x 30 x 5 Sample consisted of: Cement sheet	No asbestos detected. Organic fibres detected. No trace asbestos detected.
TP03-AS01	22-Jn0050644	Jun 21, 2022	Approximate Sample 106g / 80 x 50 x 20 Sample consisted of: Cement sheet	Chrysotile asbestos detected. Organic fibres detected.
TP06-AS01	22-Jn0050645	Jun 21, 2022	Approximate Sample 55g / 60 x 40 x 10 Sample consisted of: Cement sheet	Chrysotile and amosite asbestos detected. Organic fibres detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Melbourne	Jun 22, 2022	Indefinite

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																														
1	BH01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050581																								X			X			
2	BH01/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050582																								X			X			
3	BH02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050583																								X		X				
4	BH03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050584																								X					X	
5	BH04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050585																								X					X	
6	BH05/0.0-0.1	Jun 21, 2022		Soil	M22-																								X						X

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Order No.:
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Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
					Jn0050586																															
7	BH06/0.0-01	Jun 21, 2022		Soil	M22-Jn0050587																								X							X
8	TP01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050588																								X						X	
9	TP01/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050589																								X							X
10	TP01/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050590																						X	X	X							
11	TP02/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050591																								X						X	
12	TP02/0.9-1.0	Jun 21, 2022		Soil	M22-Jn0050592																						X	X	X							

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Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
13	TP03/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050593	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
14	TP03/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050594																								X					X	
15	TP03/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050595																								X				X		
16	TP03/3.0-3.1	Jun 21, 2022		Soil	M22-Jn0050596																						X	X	X						
17	TP04/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050597																								X				X		
18	TP04/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050598																						X	X	X	X					
19	TP04/2.2-2.3	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					

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Received: Jun 22, 2022 2:41 PM
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Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050599																															
20	TP05/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050600																								X					X	
21	TP05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050601	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X	X					
22	TP06/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050602																								X					X	
23	TP06/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050603																								X				X			
24	TP06/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050604																						X	X	X							
25	TP07/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050605																								X				X			

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Order No.:
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Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
26	TP07/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050606																								X					X	
27	TP09/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050607																								X					X	
28	TP09/2.0-2.1	Jun 21, 2022		Soil	M22-Jn0050608																						X	X	X						
29	220621-SS01	Jun 21, 2022		Soil	M22-Jn0050609																								X						X
30	220621-SS02	Jun 21, 2022		Soil	M22-Jn0050610																								X				X		
31	220621-SS03	Jun 21, 2022		Soil	M22-Jn0050611	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
32	220621-SS04	Jun 21, 2022		Soil	M22-																								X				X		

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
Brisbane Laboratory - NATA # 1261 Site # 20794																																			
Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050612																															
33	220621-SS05	Jun 21, 2022		Soil	M22-Jn0050613	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
34	220621-SS06	Jun 21, 2022		Soil	M22-Jn0050614																								X				X		
35	220621-SS07	Jun 21, 2022		Soil	M22-Jn0050615	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
36	220621-SS08	Jun 21, 2022		Soil	M22-Jn0050616																								X				X		
37	220621-SS09	Jun 21, 2022		Soil	M22-Jn0050617	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
38	220621-SS10	Jun 21, 2022		Soil	M22-Jn0050618																								X				X		

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
39	220621-SS11	Jun 21, 2022		Soil	M22-Jn0050619	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X					
40	220621-SS12	Jun 21, 2022		Soil	M22-Jn0050620																									X				X		
41	220621-SS13	Jun 21, 2022		Soil	M22-Jn0050621	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X					
42	220621-SS14	Jun 21, 2022		Soil	M22-Jn0050622																									X				X		
43	220621-SS15	Jun 21, 2022		Soil	M22-Jn0050623	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X					
44	220621-SS16	Jun 21, 2022		Soil	M22-Jn0050624																									X				X		
45	220621-SS17	Jun 21, 2022		Soil	M22-	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X					

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Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
					Jn0050625																															
46	220621-SS18	Jun 21, 2022		Soil	M22-Jn0050626																								X				X		
47	220621-SS19	Jun 21, 2022		Soil	M22-Jn0050627	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
48	220621-SS20	Jun 21, 2022		Soil	M22-Jn0050628																								X				X		
49	220621-SS21	Jun 21, 2022		Soil	M22-Jn0050629																								X					X	
50	220621-SS22	Jun 21, 2022		Soil	M22-Jn0050630	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
51	220621-SS23	Jun 21, 2022		Soil	M22-Jn0050631	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X						

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
52	220621-SS24	Jun 21, 2022		Soil	M22-Jn0050632	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
53	220621-SS25	Jun 21, 2022		Soil	M22-Jn0050633	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
54	220621-SS26	Jun 21, 2022		Soil	M22-Jn0050634	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X						
55	220621-SS27	Jun 21, 2022		Soil	M22-Jn0050635	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X			X						
56	220621-SS28	Jun 21, 2022		Soil	M22-Jn0050636																								X				X		
57	220621-SS29	Jun 21, 2022		Soil	M22-Jn0050637																								X				X		
58	220621-D03	Jun 21, 2022		Soil	M22-																								X					X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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External Laboratory																																			
					Jn0050638																															
59	220621-D02	Jun 21, 2022		Soil	M22-Jn0050639																								X			X				
60	220621-D01	Jun 21, 2022		Soil	M22-Jn0050640																								X	X				X		
61	220621-RB01	Jun 21, 2022		Water	M22-Jn0050641																									X				X		
62	SP01-AS01	Jun 21, 2022		Building Materials	M22-Jn0050642			X																												
63	SP01-AS03	Jun 21, 2022		Building Materials	M22-Jn0050643			X																												
64	TP03-AS01	Jun 21, 2022		Building Materials	M22-Jn0050644			X																												

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Mayfield Laboratory - NATA # 1261 Site # 25079																																			
Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
65	TP06-AS01	Jun 21, 2022		Building Materials	M22-Jn0050645			X																											
66	BH01/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050646											X																				
67	BH02/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050647											X																				
68	BH03/0.2-0.3	Jun 21, 2022		Soil	M22-Jn0050648											X																				
69	BH03/0.4-0.5	Jun 21, 2022		Soil	M22-Jn0050649											X																				
70	BH04/0.3-0.4	Jun 21, 2022		Soil	M22-Jn0050650											X																				
71	BH05/0.2-0.3	Jun 21, 2022		Soil	M22-											X																				

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Order No.:
Report #: 899770
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 22, 2022 2:41 PM
Due: Jun 29, 2022
Priority: 5 Day
Contact Name: -[redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
					Jn0050651																															
72	BH05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050652											X																				
73	BH06/0.1-0.2	Jun 21, 2022		Soil	M22-Jn0050653											X																				
74	BH06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050654											X																				
75	TP01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050655											X																				
76	TP01/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050656											X																				
77	TP01/3.1-3.2	Jun 21, 2022		Soil	M22-Jn0050657											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
78	TP02/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050658											X																				
79	TP04/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050659											X																				
80	TP04/2.5-2.6	Jun 21, 2022		Soil	M22-Jn0050660											X																				
81	TP05/0.7-0.8	Jun 21, 2022		Soil	M22-Jn0050661											X																				
82	TP06/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050662											X																				
83	TP06/2.9-3.0	Jun 21, 2022		Soil	M22-Jn0050663											X																				
84	TP07/0.5-0.6	Jun 21, 2022		Soil	M22-											X																				

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Eurofins Analytical Services Manager : [redacted]

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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External Laboratory																																			
					Jn0050664																															
85	TP07/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050665											X																				
86	TP08/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0050666											X																				
87	TP08/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050667											X																				
88	TP08/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050668											X																				
89	TP08/1.5-1.6	Jun 21, 2022		Soil	M22-Jn0050669											X																				
90	TP09/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0050670																									X						X

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						Antimony	Arsenic	Asbestos Absence /Presence	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	HOLD	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Tin	Vanadium	Zinc	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	BW Soil Suite 1	BW Soil Suite 2	BW Soil Suite 3	BW Soil Suite 4	BW Soil Suite 5
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217																																			
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
91	TP09/1.0-1.1	Jun 21, 2022		Soil	M22-Jn0050671											X																				
92	TP09/2.2-2.3	Jun 21, 2022		Soil	M22-Jn0050672											X																				
93	220621-D04	Jun 21, 2022		Soil	M22-Jn0050673											X																				
94	SP01-AS02	Jun 21, 2022		Building Materials	M22-Jn0050674											X																				
95	SP01-AS04	Jun 21, 2022		Building Materials	M22-Jn0050675											X																				
96	SP01-AS05	Jun 21, 2022		Building Materials	M22-Jn0050676											X																				
97	AF01	Jun 21, 2022		Building	M22-											X																				

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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Perth Laboratory - NATA # 2377 Site # 2370																																			
External Laboratory																																			
				Materials	Jn0050677																															
98	AS01	Jun 21, 2022		Building Materials	M22-Jn0050711											X																				
99	AS02	Jun 21, 2022		Building Materials	M22-Jn0050712											X																				
Test Counts						18	18	4	18	18	18	18	18	18	18	33	18	18	18	18	18	18	18	18	18	18	8	8	61	6	1	6	14	12	5

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2: Report amended to include iron results for all soil samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

[redacted] Senior Analyst-Asbestos

Authorised by:

[redacted] Senior Analyst-Asbestos

[redacted]

General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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#AU_CAU001_EnviroSampleVic

From: [redacted]
Sent: Thursday, 30 June 2022 12:01 PM
To: [redacted]
Cc:
Subject: RE: Eurofins Test Results, Invoice - Report 899770 : Site PRELIMINARY CONTAMINATION ASSESSMENT (2101947)

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Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi [redacted]

Sorry about that – the 3 x re-testing will be required for lead.

Regards,

[redacted]
Senior Environmental Engineer
A 1 Glenferrie Road, Malvern, VIC 3144
W beveridgewilliams.com.au
D [redacted]
[redacted]

Proudly certified in Victoria for Quality ISO 9001, Safety AS/NZS 4801 and Environment ISO 14001

Beveridge Williams acknowledges the Traditional Custodians of the land it works on and pays respect to their Elders, past and present.

From: [redacted]
Sent: Thursday, 30 June 2022 11:59 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Eurofins Test Results, Invoice - Report 899770 : Site PRELIMINARY CONTAMINATION ASSESSMENT (2101947)

Hi [redacted]

I should be able to get the iron results for this report as the analysis was run in the background. I will send through an amended report shortly.

For the additional analysis, what analysis did you need to be run in triplicate on that last point?

[redacted] - Please see below for additional analysis on standard TAT.

Kind Regards,
[redacted]

Phone :
Mobile
Email [redacted]

From: [redacted]
Sent: Thursday, 30 June 2022 11:22 AM
To:
Cc: [redacted]
Subject: RE: Eurofins Test Results, Invoice - Report 899770 : Site PRELIMINARY CONTAMINATION ASSESSMENT (2101947)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi [redacted]

We need iron for an analysis however it's not part of our metals suite. Is there any chance that iron was tested for and not included within the results? Moving forward can you please include iron as part of BW's heavy metals analysis? We will update our COC's to include Fe.

Also can you please request the following additional testing on standard TAT:

- CEC – BH05/0.0-0.1, 220621-SS13
- Fluoride – SS03, SS05, SS07, SS09, SS11, SS13, SS15, SS17, SS20
- ASLP (Arsenic) – BH05/0.0-0.1
- ASLP (Lead) – BH01/0.0-0.1
- ASLP (Nickel) – BH06/0.0-0.1
- ASLP (fluoride) – 220621-SS01
- Zinc – BH05/0.2-0.3, BH05/0.5-0.6
- 3 x sub-sample re-test for – BH01/0.0-0.1

[redacted]

Regards,

[redacted]
Senior Environmental Engineer
A 1 Glenferrie Road, Malvern, VIC 3144
W beveridgewilliams.com.au
D [redacted]

Beveridge William & Co Pty Ltd
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Malvern
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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: [redacted]

Report **902031-S**
Project name PRELIMINARY CONTAMINATION ASSESSMENT
Project ID 2101947
Received Date Jun 30, 2022

Client Sample ID			**BH05/0.0-0.1**	**BH05/0.2-0.3**	**BH05/0.5-0.6**	**220621-SS03**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0068442**	**M22-Jn0068443**	**M22-Jn0068444**	**M22-Jn0068445**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	27	-	-	-
% Moisture	1	%	32	9.5	26	26
Fluoride (Total)	100	mg/kg	-	-	-	< 100
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	20	-	-	-
Heavy Metals						
Zinc	5	mg/kg	-	180	88	-

Client Sample ID			**220621-SS05**	**220621-SS07**	**220621-SS09**	**220621-SS11**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0068446**	**M22-Jn0068447**	**M22-Jn0068448**	**M22-Jn0068449**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit				
% Moisture	1	%	21	26	24	22
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			**220621-SS13**	**220621-SS15**	**220621-SS17**	**220621-SS20**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0068450**	**M22-Jn0068451**	**M22-Jn0068452**	**M22-Jn0068453**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	86	-	-	-
% Moisture	1	%	34	29	19	22
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	40	-	-	-

Client Sample ID			BH01/0.0-0.1 (1)	BH01/0.0-0.1 (2)	BH01/0.0-0.1 (3)
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Jn0068454**	**M22-Jn0068455**	**M22-Jn0068456**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit			
% Moisture	1	%	8.2	7.7	8.2
Heavy Metals					
Lead	5	mg/kg	620	710	520

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jun 30, 2022	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jul 01, 2022	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Jun 30, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Fluoride (Total)	Melbourne	Jul 01, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
Heavy Metals	Melbourne	Jun 30, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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IANZ# 1290

Company Name: Beveridge Williams & Co Pty Ltd
Address: PO Box 61
Malvern
VIC 3144

Order No.:
Report #: 902031
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 30, 2022 12:01 PM
Due: Jul 7, 2022
Priority: 5 Day
Contact Name: [redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Arsenic	Fluoride (Total)	Lead	Nickel	Zinc	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X
External Laboratory													
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
1	BH05/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0068442							X	X
2	BH05/0.2-0.3	Jun 21, 2022		Soil	M22-Jn0068443					X		X	
3	BH05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0068444					X		X	
4	220621-SS03	Jun 21, 2022		Soil	M22-Jn0068445		X					X	
5	220621-SS05	Jun 21, 2022		Soil	M22-Jn0068446		X					X	
6	220621-SS07	Jun 21, 2022		Soil	M22-Jn0068447		X					X	
7	220621-SS09	Jun 21, 2022		Soil	M22-Jn0068448		X					X	
8	220621-SS11	Jun 21, 2022		Soil	M22-Jn0068449		X					X	
9	220621-SS13	Jun 21, 2022		Soil	M22-Jn0068450		X					X	X
10	220621-SS15	Jun 21, 2022		Soil	M22-Jn0068451		X					X	
11	220621-SS17	Jun 21, 2022		Soil	M22-Jn0068452		X					X	
12	220621-SS20	Jun 21, 2022		Soil	M22-Jn0068453		X					X	
13	BH01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0068454			X				X	

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Company Name: Beveridge Williams & Co Pty Ltd
Address: PO Box 61
Malvern
VIC 3144

Order No.:
Report #: 902031
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 30, 2022 12:01 PM
Due: Jul 7, 2022
Priority: 5 Day
Contact Name: [redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Arsenic	Fluoride (Total)	Lead	Nickel	Zinc	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X
	(1)												
14	BH01/0.0-0.1 (2)	Jun 21, 2022		Soil	M22-Jn0068455			X				X	
15	BH01/0.0-0.1 (3)	Jun 21, 2022		Soil	M22-Jn0068456			X				X	
16	BH01/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068457			X			X		
17	BH05/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068458	X					X		
18	BH06/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068459				X		X		
19	220621-SS01	Jun 21, 2022		AUS Leachate	M22-Jn0068460		X				X		
Test Counts						1	10	4	1	2	4	15	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Fluoride (Total)	mg/kg	< 100			100	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
Method Blank							
Heavy Metals							
Lead	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Fluoride (Total)	%	79			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Lead	%	106			80-120	Pass	
Zinc	%	107			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Zinc	B22-Jn0064258	NCP	%	93			75-125	Pass	
Spike - % Recovery									
				Result 1					
Fluoride (Total)	M22-Jn0068618	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	B22-Jn0064258	NCP	%	104			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M22-Jn0068799	NCP	uS/cm	12	14	10	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0068443	CP	%	9.5	9.7	1.9	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Zinc	B22-Jn0064258	NCP	mg/kg	76	79	3.4	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Fluoride (Total)	M22-Jn0068599	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-Jn0068454	CP	%	8.2	8.3	1.9	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	B22-Jn0064258	NCP	mg/kg	< 5	< 5	<1	30%	Pass	

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Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-Metal
[redacted] Senior Analyst-Metal
[redacted] Senior Analyst-Sample Properties
[redacted] Senior Analyst-Inorganic

[redacted]
General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Beveridge William & Co Pty Ltd
PO Box 61
Malvern
VIC 3144

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: [redacted]

Report **902031-L**
Project name PRELIMINARY CONTAMINATION ASSESSMENT
Project ID 2101947
Received Date Jun 30, 2022

Client Sample ID			**BH01/0.0-0.1**	**BH05/0.0-0.1**	**BH06/0.0-0.1**	**220621-SS01**
Sample Matrix			**AUS Leachate**	**AUS Leachate**	**AUS Leachate**	**AUS Leachate**
Eurofins Sample No.			**M22-Jn0068457**	**M22-Jn0068458**	**M22-Jn0068459**	**M22-Jn0068460**
Date Sampled			**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**	**Jun 21, 2022**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	-	0.01	-	-
Lead	0.01	mg/L	3.8	-	-	-
Nickel	0.01	mg/L	-	-	0.01	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	6.5	6.6	6.3	5.8
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.4	5.4	5.4	5.4
Fluoride (Total)	0.2	mg/L	-	-	-	< 0.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Melbourne	Jun 30, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
AUS Leaching Procedure			
pH (initial)	Melbourne	Jun 30, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Jun 30, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Jun 30, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Fluoride (Total)	Melbourne	Jun 30, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			

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Company Name: Beveridge Williams & Co Pty Ltd
Address: PO Box 61
Malvern
VIC 3144

Order No.:
Report #: 902031
Phone: 9524 8888
Fax: 9524 8899

Received: Jun 30, 2022 12:01 PM
Due: Jul 7, 2022
Priority: 5 Day
Contact Name: [redacted]

Project Name: PRELIMINARY CONTAMINATION ASSESSMENT
Project ID: 2101947

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Arsenic	Fluoride (Total)	Lead	Nickel	Zinc	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X
External Laboratory													
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
1	BH05/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0068442							X	X
2	BH05/0.2-0.3	Jun 21, 2022		Soil	M22-Jn0068443					X		X	
3	BH05/0.5-0.6	Jun 21, 2022		Soil	M22-Jn0068444					X		X	
4	220621-SS03	Jun 21, 2022		Soil	M22-Jn0068445		X					X	
5	220621-SS05	Jun 21, 2022		Soil	M22-Jn0068446		X					X	
6	220621-SS07	Jun 21, 2022		Soil	M22-Jn0068447		X					X	
7	220621-SS09	Jun 21, 2022		Soil	M22-Jn0068448		X					X	
8	220621-SS11	Jun 21, 2022		Soil	M22-Jn0068449		X					X	
9	220621-SS13	Jun 21, 2022		Soil	M22-Jn0068450		X					X	X
10	220621-SS15	Jun 21, 2022		Soil	M22-Jn0068451		X					X	
11	220621-SS17	Jun 21, 2022		Soil	M22-Jn0068452		X					X	
12	220621-SS20	Jun 21, 2022		Soil	M22-Jn0068453		X					X	
13	BH01/0.0-0.1	Jun 21, 2022		Soil	M22-Jn0068454			X				X	

eurofins

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Sample Detail						Arsenic	Fluoride (Total)	Lead	Nickel	Zinc	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X
	(1)												
14	BH01/0.0-0.1 (2)	Jun 21, 2022		Soil	M22-Jn0068455			X				X	
15	BH01/0.0-0.1 (3)	Jun 21, 2022		Soil	M22-Jn0068456			X				X	
16	BH01/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068457			X			X		
17	BH05/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068458	X					X		
18	BH06/0.0-0.1	Jun 21, 2022		AUS Leachate	M22-Jn0068459				X		X		
19	220621-SS01	Jun 21, 2022		AUS Leachate	M22-Jn0068460		X				X		
Test Counts						1	10	4	1	2	4	15	2

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Arsenic			mg/L	< 0.01			0.01	Pass	
Lead			mg/L	< 0.01			0.01	Pass	
Nickel			mg/L	< 0.01			0.01	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	M22-Jn0066343	NCP	%	93			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-Jn0067573	NCP	%	92			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Nickel	M22-Jn0067573	NCP	%	92			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	M22-Jn0066343	NCP	mg/L	0.72	0.73	2.4	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Jn0067573	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	M22-Jn0067573	NCP	mg/L	0.05	0.05	11	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-Inorganic
[redacted] Senior Analyst-Metal

[redacted]

General Manager

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Beveridge Williams
development & environment consultants

Chain of Custody Form

Job number	2101947
Laboratory	ALS Water Resources Group

Client	Stable Property Services	Quote number	2018-085A LTP 1907
Project	Preliminary Contamination Assessment	Project Manager	[redacted]
Location	5495 Princes Hwy, Traralgon	Sampled by	[redacted]

Turnaround time	24hr ☐	48hr ☐	72hr ☐	Standard ☒	Comments:

Chain of Custody

From	Company	Date	Received by	Company	Date	Time
[redacted]	Beveridge Williams	22/06/2022		ALS	22/06/2022	10:25AM

Quality control		Initial
Sample preservation	Appropriate sample containers used, refrigerated or chilled samples supplied to laboratory	[redacted]
Sample holding times	Tests conducted within specified holding times	[redacted]
Final certificates	Re-testing of results as requested. Tests conducted and reported as per CoC form.	[redacted]

Notes

Matrix: S = Soil GW = Groundwater W = Water R = Rinsate Soluble Heavy Metals: Ag, As, B, Ba, Be, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, V, Zn

Soil: A-S-BEV-W1 (HM/OCP) A-S-BEV-W2 (HM/PAH) A-S-BEV-W3 (HM/PAH/OCP) A-S-BEV-W4 (HM/TPH/PAH) A-S-BEV-W5 (EPA 621 w/ extra metals)

Water: A-W-BEV-W1 (EPA Table 2, TDS, pH, anions/cations, low level: PAH, OCP, TPH) A--BWANZLL (ANZECC screen, low level metals & organics)

All groundwater heavy metals testing must be for soluble metals unless otherwise indicated.

Beveridge Williams				Job Number					2101947				
				Testing required									
Sample ID	Date sampled	Matrix	No. of containers	A-S1828CF (1828.2 Table 3 Clean Fill Suite)	Heavy Metals	PAH	TPH/TRH	OCP	OPP	pH	CEC	ASLP Heavy Metals	ASLP PAH
BH04/0.0-0.1A	21/06/2022	S	1		X	X	X						
TP04/0.0-0.1A	21/06/2022	S	1		X	X							
TP09/0.0-0.1A	21/06/2022	S	1										
220621-SS01A	21/06/2022	S	1		X	X	X	X					

ALS Water

CERTIFICATE OF ANALYSIS

Batch No:	**22-51753**		
Final Report	**15280**		
		Laboratory	Scoresby Laboratory
Client:	**Beveridge Williams & Co Pty Ltd**	*Address*	Caribbean Business Park, 22 Dalmore Drive, Scoresby, VIC 3179
Contact:	[redacted]		
Address:	1 Glenferrie Road MALVERN VIC 3144 AUSTRALIA	*Phone*	03 8756 8000
		Fax	03 9763 1862
		Contact:	[redacted]
PO No:	**Not Available**	Date Sampled:	**21-Jun-2022**
Sampler Name:	**J.Tillig/B.Ellis**	Date Samples Received:	**24-Jun-2022**
ALS Program Ref:	**BEVWILL**	*Date Issued:*	**06-Jul-2022**
Program Description:	**Analysis**		
Client Ref:	**2101947**		

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service .

Analysis	*Method*	*Laboratory*	*Analysis*		*Method*	*Laboratory*
MS Total Metals	WG020B	Scoresby	OCP		WP068A	Scoresby
PAH	WP075B	Scoresby	TRH F2	#	WP071	Scoresby
TRH & TPH (>C10)	WP071	Scoresby	TRH (C6-C10) & F1		WP074 (F1 not NATA)	Scoresby

Signatories

Name	*Title*	*Name*	*Title*
Hao Zhang	**Team Leader Organics**	**Ricky Singh**	**Analyst**

Samples not collected by ALS and are tested as received.
Calculated results are based on raw data.

Soil microb

Samples are tested within holding time unless otherwise stated.

Results contained within this report relate only to the samples tested.
The report shall not be reproduced, except in full and results relate only to the items tested.

Batch No:	**22-51753**
Report Number:	**15280**
Client:	**Beveridge Williams & Co Pty Ltd**
ALS Program Ref:	**BEVWILL**
Program Description:	**Analysis**

Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
7457361		BH04/0.0-0.1A	SOIL	21/06/22
7457362		TP04/0.0-0.1A	SOIL	21/06/22
7457364		220621-SS01A	SOIL	21/06/22

Analysis - Analyte	*Sample No. Site Code Units*	7457361	7457362	7457364
TRH (C6-C10) & F1 - TPHC6-C9	mg/kg	<20		<20
TRH (C6-C10) & F1 - TRHC6-C10	mg/kg	<20		<20
TRH (C6-C10) & F1 - TRHC6-C10 minus BTEX	mg/kg	<20		<20
TRH & TPH (>C10) - Sum of TPH C10-C36	mg/kg	<50		<50
TRH & TPH (>C10) - Sum of TRH>C10-C40	mg/kg	<50		<50
TRH & TPH (>C10) - TPH C10-C14	mg/kg	<20		<20
TRH & TPH (>C10) - TPH C15-C28	mg/kg	<50		<50
TRH & TPH (>C10) - TPH C29-C36	mg/kg	<50		<50
TRH & TPH (>C10) - TRH>C10-C16	mg/kg	<20		<20
TRH F2 - TRH>C10-C16 minus Naphthalene	mg/kg	<20		<20
TRH & TPH (>C10) - TRH>C16-C34	mg/kg	<50		<50
TRH & TPH (>C10) - TRH>C34-C40	mg/kg	<50		<50
OCP - 2,4,5,6-tetrachloro-m-xylene	%			102
OCP - BHC (alpha isomer)	mg/kg			<0.05
OCP - a-Endosulphan	mg/kg			<0.05
OCP - Aldrin	mg/kg			<0.05
OCP - Sum of Aldrin and Dieldrin	mg/kg			<0.05
OCP - BHC (beta isomer)	mg/kg			<0.05
OCP - b-Endosulphan	mg/kg			<0.05
OCP - cis-Chlordane	mg/kg			<0.05
OCP - Chlordane	mg/kg			<0.05
OCP - BHC (delta isomer)	mg/kg			<0.05
OCP - DDD	mg/kg			<0.05
OCP - Sum of DDD, DDE and DDT	mg/kg			<0.05
OCP - DDE	mg/kg			<0.05
OCP - DDT	mg/kg			<0.05
OCP - Dieldrin	mg/kg			<0.05
OCP - Endosulfan Sulfate	mg/kg			<0.05
OCP - Sum of alpha-, beta- and Endosulphan Sulphate	mg/kg			<0.05
OCP - Endrin	mg/kg			<0.05
OCP - Endrin Aldehyde	mg/kg			<0.05
OCP - Endrin Ketone	mg/kg			<0.05
OCP - Heptachlor	mg/kg			<0.05
OCP - Heptachlor Epoxide	mg/kg			<0.05
OCP - Hexachlorobenzene	mg/kg			<0.05
OCP - BHC (gamma isomer) [Lindane]	mg/kg			<0.05
OCP - Methoxychlor	mg/kg			<0.05
OCP - Oxychlordane	mg/kg			<0.05
OCP - trans-Chlordane	mg/kg			<0.05
MS Total Metals - Silver	mg/kg	<5	<5	<5
MS Total Metals - Aluminium	mg/kg	3800	13000	3000
MS Total Metals - Arsenic	mg/kg	<5	<5	<5
MS Total Metals - Boron	mg/kg	<10	<10	<10
MS Total Metals - Barium	mg/kg	95	63	32
MS Total Metals - Beryllium	mg/kg	<5	<5	<5
MS Total Metals - Cadmium	mg/kg	0.3	<0.2	<0.2
MS Total Metals - Cobalt	mg/kg	<5	8	<5
MS Total Metals - Chromium	mg/kg	8	26	<5
MS Total Metals - Copper	mg/kg	17	8	<5

Batch No:	**22-51753**
Report Number:	**15280**
Client:	**Beveridge Williams & Co Pty Ltd**
ALS Program Ref:	**BEVWILL**
Program Description:	**Analysis**

Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
7457361		BH04/0.0-0.1A	SOIL	21/06/22
7457362		TP04/0.0-0.1A	SOIL	21/06/22
7457364		220621-SS01A	SOIL	21/06/22

		7457361	7457362	7457364
MS Total Metals - Iron	mg/kg	9400	26000	4600
MS Total Metals - Mercury	mg/kg	0.06	<0.05	<0.05
MS Total Metals - Manganese	mg/kg	210	100	42
MS Total Metals - Molybdenum	mg/kg	<5	<5	<5
MS Total Metals - Nickel	mg/kg	7	17	<5
MS Total Metals - Lead	mg/kg	150	12	<5
MS Total Metals - Antimony	mg/kg	<5	<5	<5
MS Total Metals - Selenium	mg/kg	<3	<3	<3
MS Total Metals - Tin	mg/kg	6	<5	<5
MS Total Metals - Vanadium	mg/kg	13	50	13
MS Total Metals - Zinc	mg/kg	320	32	<5
PAH - Acenaphthene	mg/kg	<0.1	<0.1	<0.1
PAH - Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
PAH - Anthracene	mg/kg	<0.1	<0.1	<0.1
PAH - BaP TEQ (half LOR)	mg/kg	<0.1	<0.1	<0.1
PAH - BaP TEQ (LOR)	mg/kg	0.2	0.2	0.2
PAH - BaP TEQ (zero)	mg/kg	<0.1	<0.1	<0.1
PAH - Benz(a)anthracene	mg/kg	<0.1	<0.1	<0.1
PAH - Benzo(a)pyrene	mg/kg	<0.1	<0.1	<0.1
PAH - Benzo(b)fluoranthene	mg/kg	<0.1	<0.1	<0.1
PAH - Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
PAH - Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	<0.1
PAH - Chrysene	mg/kg	<0.1	<0.1	<0.1
PAH - Dibenz(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
PAH - Fluoranthene	mg/kg	<0.1	<0.1	<0.1
PAH - Fluorene	mg/kg	<0.1	<0.1	<0.1
PAH - Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	<0.1
PAH - Naphthalene	mg/kg	<0.1	<0.1	<0.1
PAH - Phenanthrene	mg/kg	<0.1	<0.1	<0.1
PAH - p-Terphenyl-d14	%	86	92	96
PAH - Pyrene	mg/kg	<0.1	<0.1	<0.1
PAH - Total PAH	mg/kg	<0.1	<0.1	<0.1

A blank space indicates no test performed.

Appendix C

Photolog

GHD Site Inspection Photolog
20 September 2023

Stockpile of industrial waste near homestead

GHD Site Inspection Photolog
20 September 2023

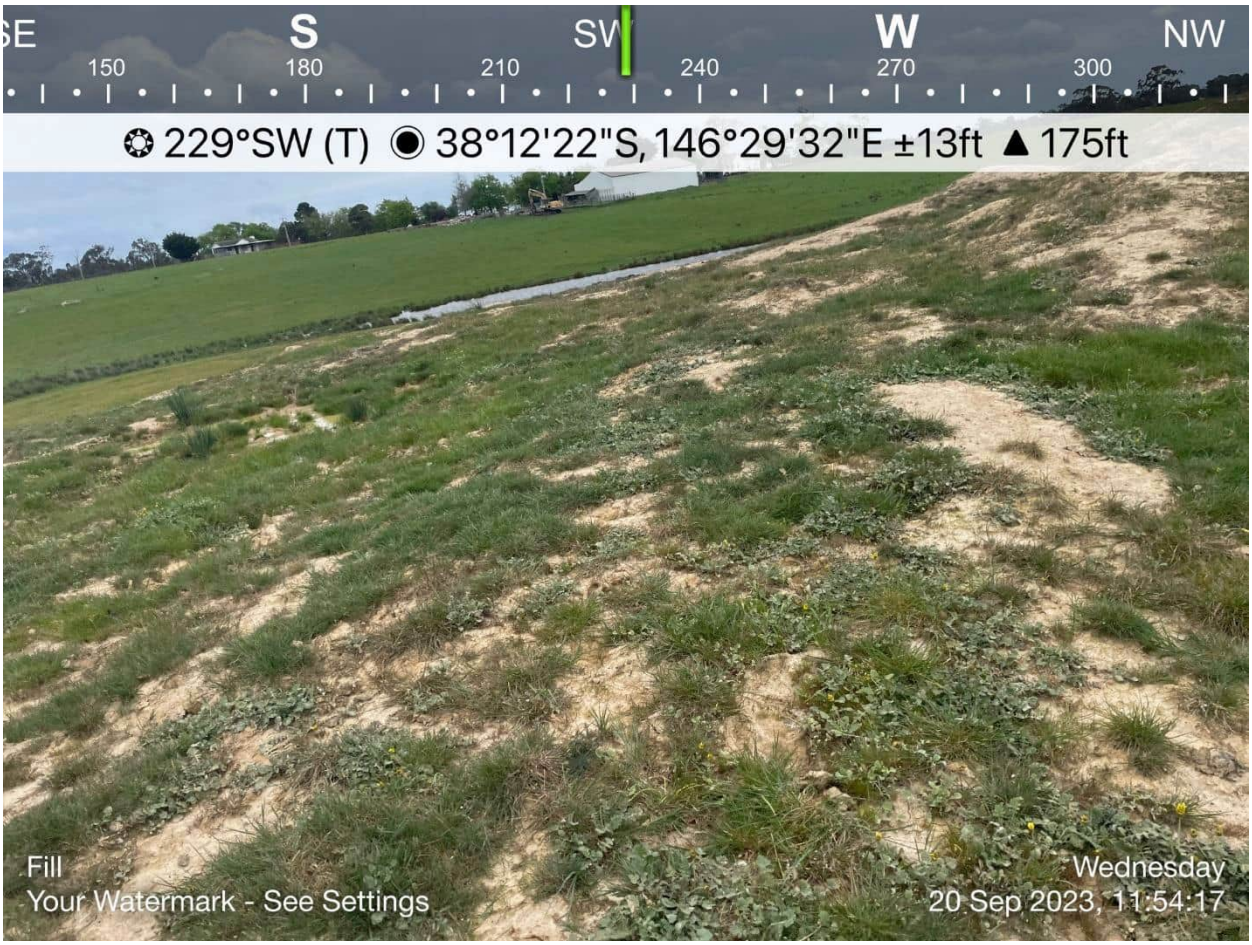
Stockpile of timber near homestead

GHD Site Inspection Photolog
20 September 2023

Staining beneath excavator

GHD Site Inspection Photolog
20 September 2023

Fill soil near northeastern dam



GHD Site Inspection Photolog
20 September 2023

Fill soil near northeastern dam

GHD Site Inspection Photolog
20 September 2023

Looking north-west across northeastern dam

GHD Site Inspection Photolog
20 September 2023

Gravel and other wastes within fill soil, north eastern portion of site

GHD Site Inspection Photolog
20 September 2023

Bullet casings in north-eastern portion of site, near old rifle range

Appendix D

Tabulated Analytical Results

						Field ID	BH01_0.2	BH02_0.2
						Date	16 Oct 2023	16 Oct 2023
						Lab Report	1035574	1035574
Analyte		Unit	LOR	NEPM 2013 Table 1A(1) HIL A Res	NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil	NEPM 2013 EIL-Urban Residential-Public Open Space		
Misc.								
	% Moisture_	%	1				5.1	14
	Naphthalene (value used in F2 calc)	mg/kg	0.5				<0.5	<0.5
BTEXN								
	Benzene	mg/kg	0.1		65		<0.1	<0.1
	Toluene	mg/kg	0.1		105		<0.1	<0.1
	Ethylbenzene	mg/kg	0.1		125		<0.1	<0.1
	Xylene (o)	mg/kg	0.1				<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2				<0.2	<0.2
	Xylene Total	mg/kg	0.3		45		<0.3	<0.3
TRH - NEPM 2013								
	F1 (C6-C10 minus BTEX)	mg/kg	20		180[#1]		<20	<20
	C6-C10 Fraction	mg/kg	20				<20	<20
	F2 (>C10-C16 minus Naphthalene)	mg/kg	50				<50	<50
	>C10-C16 Fraction	mg/kg	50		120[#2]		<50	<50
	F3 (>C16-C34 Fraction)	mg/kg	100		1,300		<100	<100
	F4 (>C34-C40 Fraction)	mg/kg	100		5,600		<100	<100
	>C10-C40 (Sum of Total)	mg/kg	100				<100	<100
TRH - NEPM 1999								
	C6-C9 Fraction	mg/kg	20				<20	<20
	C10-C14 Fraction	mg/kg	20				<20	<20
	C15-C28 Fraction	mg/kg	50				<50	53
	C29-C36 Fraction	mg/kg	50				<50	<50
	C10-C36 (Sum of Total)	mg/kg	50				<50	53

Appendix D
Table 2
PFAS Analytical Results

Stable Property Group Pty Ltd
Hollydale Estate
Hollydale Estate PRSA

					Field ID	BH01_0.2	BH02_0.2
					Date	16 Oct 2023	16 Oct 2023
					Lab Report	1035574	1035574
Analyte	Unit	LOR	PFAS NEMP 2.0 2020 Residential with garden/accessible soil (HIL A)	PFAS NEMP 2.0 2020 Ecological direct exposure	PFAS NEMP 2.0 2020 Ecological indirect exposure		
PFAS - Perfluoroalkyl Sulfonic Acids							
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005				<0.005	<0.005
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.005				<0.005	<0.005
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.005				<0.005	<0.005
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.005	0.01			<0.005	<0.005
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.005				<0.005	<0.005
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.005	0.01	1	0.01	<0.005	<0.005
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.005				<0.005	<0.005
PFAS - Perfluoroalkyl Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	mg/kg	0.005				<0.005	<0.005
Perfluoropentanoic acid (PFPeA)	mg/kg	0.005				<0.005	<0.005
Perfluorohexanoic acid (PFHxA)	mg/kg	0.005				<0.005	<0.005
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.005				<0.005	<0.005
Perfluorooctanoic acid (PFOA)	mg/kg	0.005	0.1	10		<0.005	<0.005
Perfluorononanoic acid (PFNA)	mg/kg	0.005				<0.005	<0.005
Perfluorodecanoic acid (PFDA)	mg/kg	0.005				<0.005	<0.005
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.005				<0.005	<0.005
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.005				<0.005	<0.005
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.005				<0.005	<0.005
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.005				<0.005	<0.005
PFAS - Perfluoroalkyl Sulfonamide							
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.005				<0.005	<0.005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.005				<0.005	<0.005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.005				<0.005	<0.005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.01				<0.01	<0.01
N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	mg/kg	0.005				<0.005	<0.005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.005				<0.005	<0.005
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.01				<0.01	<0.01
PFAS - Fluorotelomer Sulfonic Acids							
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.005				<0.005	<0.005
6:2 Fluorotelomer Sulfonate (6:2 FTS)	mg/kg	0.01				<0.01	<0.01
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	mg/kg	0.005				<0.005	<0.005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.005				<0.005	<0.005
PFAS - Sums							
Sum of PFHxS and PFOS	mg/kg	0.005	0.01[#1]			<0.005	<0.005
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005				<0.005	<0.005
PFAS (Sum of Total)	mg/kg	0.05				<0.05	<0.05
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005				<0.005	<0.005
PFAS (Sum of Total)(WA DER List)	mg/kg	0.01				<0.01	<0.01
PFAS							
Perfluorononane sulfonate (PFNS)	mg/kg	0.005				<0.005	<0.005

Comments
#1 If the concentration of PFHxS > PFOS this guideline value needs to be adjusted accordingly. Please refer to Section 8.5.2.1 of the PFAS NEMP 2.0 guideline for further information

Appendix E

Laboratory Reports

Report: 1035574
17/10 BF

25 BF

CHAIN OF CUSTODY RECORD

GHD Melbourne
180 Lonsdale Street, Melbourne 3000
Telephone: 613 8687 8000 Facsimile: 613 8687 8111

Job Number	GHD Office
12622419	Melbourne

Project: Hollydale PRSA

GHD Contact	GHD Contact Email
[redacted]	

TAT: Five days **Quote:**

Laboratory: Eurofins Scientific
Address: 6 Monterey Road, Dandenong South VIC 3175
Lab Contact: [redacted]

PLEASE NOTE:

- Sign white copy on receipt and release of samples.
- Samples are to be delivered to the Laboratory Address
- On receipt of samples, the laboratory contact to sign white copy and fax/email to GHD Contact.
- On completion of analyses please return white copy with results. Pink copy is returned to the sampler once the courier has signed for the samples.
- E-mail results to the GHD Contact with the GHD Job Number in the e-mail subject line.

Results to be provided in ESDAT compatibile format

Sample I.D.	Date	Time	Sample Matrix S: Soil SL: Sludge W: Water A: Air GW: Groundwater	Container Type J: soil jar B: bag V: vial G: glass bottle P: plastic bottle	Number	TRH (C6-C40), BETXN	PFAS Full Suite	TRH (C6-C9), BETXN	Please forward to ALS
BH01_0.2	16/10/2023		S	J	2	X	X		
BH02_0.2	16/10/2023		S	J	2	X	X		
FD01	16/10/2023		S	J	2	X	X		
FS01	16/10/2023		S	J	2	X	X		X
TB01	16/10/2023		W	V	1			X	

NOTES:

Sampled by:	[redacted]	Date/Time:	16/10/2023	Relinquished by:	[redacted] - 16/10/2023
Received Courier:		Date/Time:		Relinquished by:	
Received by Lab:		Date/Time:			
Remarks:					

DATE: 17/10/23
TIME: 1pm
COURIER:
TEMPERATURE : 3.6
ATTEMP TO CHILL : YES NO
S.D

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Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	Site# 25079 & 25289
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	

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46-48 Banksia Road
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Tel: +61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
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Penrose,	Rolleston,	Gate Pa,
Auckland 1061	Christchurch 7675	Tauranga 3112
Tel: +64 9 526 4551	Tel: +64 3 343 5201	Tel: +64 9 525 0568
IANZ# 1327	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	GHD Pty Ltd VIC
Contact name:	[redacted]
Project name:	HOLLYDALE PRSA
Project ID:	12622419
Turnaround time:	5 Day
Date/Time received	Oct 17, 2023 10:00 AM
Eurofins reference	1035574

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[redacted]

Results will be delivered electronically via email to [redacted]

Note: A copy of these results will also be delivered to the general GHD Pty Ltd VIC email address.

GHD Melbourne
Level 8, 180 Lonsdale St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: [redacted]

Report **1035574-S**
Project name HOLLYDALE PRSA
Project ID 12622419
Received Date Oct 17, 2023

Client Sample ID			**BH01_0.2**	**BH02_0.2**	**FD01**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Oc0037335**	**M23-Oc0037336**	**M23-Oc0037337**
Date Sampled			**Oct 16, 2023**	**Oct 16, 2023**	**Oct 16, 2023**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	53	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	53	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	57	115	124
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Sample Properties					
% Moisture	1	%	5.1	14	5.4
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5

Client Sample ID			BH01_0.2	BH02_0.2	FD01
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-Oc0037335	M23-Oc0037336	M23-Oc0037337
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	127	123	119
13C5-PFPeA (surr.)	1	%	122	118	111
13C5-PFHxA (surr.)	1	%	123	122	130
13C4-PFHpA (surr.)	1	%	125	120	108
13C8-PFOA (surr.)	1	%	95	113	87
13C5-PFNA (surr.)	1	%	99	122	84
13C6-PFDA (surr.)	1	%	117	116	107
13C2-PFUnDA (surr.)	1	%	55	96	36
13C2-PFDoDA (surr.)	1	%	65	94	53
13C2-PFTeDA (surr.)	1	%	92	99	76
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	64	73	54
D3-N-MeFOSA (surr.)	1	%	110	113	94
D5-N-EtFOSA (surr.)	1	%	106	114	89
D7-N-MeFOSE (surr.)	1	%	81	96	68
D9-N-EtFOSE (surr.)	1	%	74	90	54
D5-N-EtFOSAA (surr.)	1	%	36	55	28
D3-N-MeFOSAA (surr.)	1	%	31	62	23
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	135	136	129
18O2-PFHxS (surr.)	1	%	110	124	89
13C8-PFOS (surr.)	1	%	124	129	109

Client Sample ID			BH01_0.2	BH02_0.2	FD01
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M23-Oc0037335	M23-Oc0037336	M23-Oc0037337
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	100	101	98
13C2-6:2 FTSA (surr.)	1	%	97	111	89
13C2-8:2 FTSA (surr.)	1	%	101	115	83
13C2-10:2 FTSA (surr.)	1	%	37	73	27
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Oct 19, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Oct 19, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Oct 19, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Oct 19, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Melbourne	Oct 17, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Oct 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Oct 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Oct 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Oct 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Oct 17, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	Site# 25079 & 25289
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	

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Tel: +64 9 526 4551	Tel: +64 3 343 5201	Tel: +64 9 525 0568
IANZ# 1327	IANZ# 1290	IANZ# 1402

Company Name: GHD Pty Ltd VIC
Address: Level 8, 180 Lonsdale St
Melbourne
VIC 3000

Project Name: HOLLYDALE PRSA
Project ID: 12622419

Order No.:
Report #: 1035574
Phone: 8687 8000
Fax: 8687 8111

Received: Oct 17, 2023 10:00 AM
Due: Oct 24, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						BTEX and Naphthalene	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0.2	Oct 16, 2023		Soil	M23-Oc0037335	X	X	X		X
2	BH02_0.2	Oct 16, 2023		Soil	M23-Oc0037336	X	X	X		X
3	FD01	Oct 16, 2023		Soil	M23-Oc0037337	X	X	X		X
4	TB01	Oct 16, 2023		Water	M23-Oc0037338				X	
Test Counts						3	3	3	1	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	77			70-130	Pass	
TRH C10-C14	%	104			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
TRH >C10-C16	%	130			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	81			70-130	Pass	
Toluene	%	79			70-130	Pass	
Ethylbenzene	%	81			70-130	Pass	
m&p-Xylenes	%	75			70-130	Pass	
Xylenes - Total*	%	75			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	92			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	89			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	68			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	79			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	83			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	97			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	94			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	97			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	75			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	91			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	86			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	78			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	89			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	75			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	97			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	70			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	71			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	80			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)			%	84			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	85			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	75			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	85			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	82			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	L23-Oc0035380	NCP	%	78			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	L23-Oc0035380	NCP	%	57			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	L23-Oc0035380	NCP	%	77			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	L23-Oc0035380	NCP	%	73			50-150	Pass	
Perfluorooctanoic acid (PFOA)	L23-Oc0035380	NCP	%	81			50-150	Pass	
Perfluorononanoic acid (PFNA)	L23-Oc0035380	NCP	%	75			50-150	Pass	
Perfluorodecanoic acid (PFDA)	L23-Oc0035380	NCP	%	80			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	L23-Oc0035380	NCP	%	86			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	L23-Oc0035380	NCP	%	79			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	L23-Oc0035380	NCP	%	84			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	L23-Oc0035380	NCP	%	68			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	L23-Oc0035380	NCP	%	78			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	L23-Oc0035380	NCP	%	85			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	L23-Oc0035380	NCP	%	77			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	L23-Oc0035380	NCP	%	83			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	L23-Oc0035380	NCP	%	76			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	L23-Oc0035380	NCP	%	70			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	L23-Oc0035380	NCP	%	79			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	L23-Oc0035380	NCP	%	68			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	L23-Oc0035380	NCP	%	73			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	L23-Oc0035380	NCP	%	60			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	L23-Oc0035380	NCP	%	59			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	L23-Oc0035380	NCP	%	70			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	L23-Oc0035380	NCP	%	71			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	L23-Oc0035380	NCP	%	74			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	L23-Oc0035380	NCP	%	80			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	L23-Oc0035380	NCP	%	73			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	L23-Oc0035380	NCP	%	71			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	L23-Oc0035380	NCP	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	L23-Oc0035380	NCP	%	65			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Oc0034780	NCP	%	83			70-130	Pass	
TRH C10-C14	M23-Oc0037336	CP	%	121			70-130	Pass	
TRH C6-C10	M23-Oc0034780	NCP	%	80			70-130	Pass	
TRH >C10-C16	M23-Oc0037336	CP	%	122			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Oc0034780	NCP	%	83			70-130	Pass	
Toluene	M23-Oc0034780	NCP	%	84			70-130	Pass	
Ethylbenzene	M23-Oc0034780	NCP	%	83			70-130	Pass	
m&p-Xylenes	M23-Oc0034780	NCP	%	85			70-130	Pass	
o-Xylene	M23-Oc0034780	NCP	%	89			70-130	Pass	
Xylenes - Total*	M23-Oc0034780	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Oc0034780	NCP	%	92			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Oc0040662	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-Oc0037993	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Oc0037993	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Oc0037993	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-Oc0040662	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-Oc0037993	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Oc0037993	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Oc0037993	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Oc0040662	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Oc0040662	NCP	mg/kg	0.1	< 0.1	24	30%	Pass	
Ethylbenzene	M23-Oc0040662	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Oc0040662	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Oc0040662	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Oc0040662	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Oc0040662	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	L23-Oc0035384	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	L23-Oc0035384	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	L23-Oc0035384	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	L23-Oc0035384	NCP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Oc0037336	CP	%	14	12	19	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-PFAS
[redacted] Senior Analyst-Volatile
[redacted] Senior Analyst-Organic

[redacted]
Managing Director

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

GHD Melbourne
Level 8, 180 Lonsdale St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: [redacted]

Report **1035574-W**
Project name HOLLYDALE PRSA
Project ID 12622419
Received Date Oct 17, 2023

Client Sample ID			**TB01**
Sample Matrix			**Water**
Eurofins Sample No.			**M23-Oc0037338**
Date Sampled			**Oct 16, 2023**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	101
Volatile Organics			
Naphthalene[N02]	0.01	mg/L	< 0.01

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Oct 18, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Melbourne	Oct 18, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Oct 18, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	Site# 25079 & 25289
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	

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Perth
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Tel: +61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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IANZ# 1327	IANZ# 1290	IANZ# 1402

Company Name: GHD Pty Ltd VIC
Address: Level 8, 180 Lonsdale St
Melbourne
VIC 3000

Project Name: HOLLYDALE PRSA
Project ID: 12622419

Order No.:
Report #: 1035574
Phone: 8687 8000
Fax: 8687 8111

Received: Oct 17, 2023 10:00 AM
Due: Oct 24, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						BTEX and Naphthalene	Moisture Set	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH01_0.2	Oct 16, 2023		Soil	M23-Oc0037335	X	X	X		X
2	BH02_0.2	Oct 16, 2023		Soil	M23-Oc0037336	X	X	X		X
3	FD01	Oct 16, 2023		Soil	M23-Oc0037337	X	X	X		X
4	TB01	Oct 16, 2023		Water	M23-Oc0037338				X	
Test Counts						3	3	3	1	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Total Recoverable Hydrocarbons									
TRH C6-C9			mg/L	< 0.02			0.02	Pass	
TRH C6-C10			mg/L	< 0.02			0.02	Pass	
Method Blank									
BTEX									
Benzene			mg/L	< 0.001			0.001	Pass	
Toluene			mg/L	< 0.001			0.001	Pass	
Ethylbenzene			mg/L	< 0.001			0.001	Pass	
m&p-Xylenes			mg/L	< 0.002			0.002	Pass	
o-Xylene			mg/L	< 0.001			0.001	Pass	
Xylenes - Total*			mg/L	< 0.003			0.003	Pass	
Method Blank									
Volatile Organics									
Naphthalene			mg/L	< 0.01			0.01	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Oc0041039	NCP	%	78			70-130	Pass	
TRH C6-C10	M23-Oc0041039	NCP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Oc0041039	NCP	%	85			70-130	Pass	
Toluene	M23-Oc0041039	NCP	%	83			70-130	Pass	
Ethylbenzene	M23-Oc0041039	NCP	%	85			70-130	Pass	
m&p-Xylenes	M23-Oc0041039	NCP	%	86			70-130	Pass	
o-Xylene	M23-Oc0041039	NCP	%	86			70-130	Pass	
Xylenes - Total*	M23-Oc0041039	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Naphthalene	M23-Oc0041039	NCP	%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Oc0039834	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	M23-Oc0039834	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Oc0039834	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M23-Oc0039834	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M23-Oc0039834	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M23-Oc0039834	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M23-Oc0039834	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M23-Oc0039834	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Naphthalene	M23-Oc0039834	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-Volatile

[redacted]
Managing Director

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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COPY

25 BF

CHAIN OF CUSTODY RECORD

GHD Melbourne
180 Lonsdale Street, Melbourne 3000
Telephone: 613 8687 8000 Facsimile: 613 8687 8111

Job Number	GHD Office
12622419	Melbourne

Project: Hollydale PRSA

Laboratory: Eurofins Scientific
Address: 6 Monterey Road, Dandenong South VIC 3175
Lab Contact: [redacted]

GHD Contact	GHD Contact Email
[redacted]	

TAT: Five days | Quote:

PLEASE NOTE:
- Sign white copy on receipt and release of samples.
- Samples are to be delivered to the Laboratory Address.
- On receipt of samples, the laboratory contact to sign white copy and fax/email to GHD Contact.
- On completion of analyses please return white copy with results. Pink copy is returned to the sampler once the courier has signed for the samples.
- E-mail results to the GHD Contact with the GHD Job Number in the e-mail subject line.

Results to be provided in ESDAT compatible format

Sample I.D.	Date	Time	Sample Matrix (B: Soil SL: Sludge W: Water A: Air GW: Groundwater)	Container Type (J: soil jar B: bag V: vial G: glass bottle P: plastic bottle)	Container Number	TRH (C6-C40), BETXN	PFAS Full Suite	TRH (C6-C9), BETXN	Please forward to ALS
BH01_0.2	16/10/2023		S	J	2	X	X		
BH02_0.2	16/10/2023		S	J	2	X	X		
FD01	16/10/2023		S	J	2	X	X		
FS01	16/10/2023		S	J	2	X	X		X
TB01	16/10/2023		W	V	1			X	

Environmental Division
Melbourne
Work Order Reference
EM2318624

Telephone : + 61-3-8549 9600

NOTES:

Sampled by:	[redacted]	Date/Time:	16/10/2023	Relinquished by:	[redacted] - 16/10/2023
Received Courier:		Date/Time:		Relinquished by:	
Received by Lab:		Date/Time:			
Remarks:					

Received: MCO 9:17 Carrier: reling by BF
C/note:
Temp: 5.3 °C Seal: Y / N 8am 18/10 EF
Ice / Icebricks / NA

DATE: 17/10/23
TIME: 10am
COURIER:
TEMPERATURE : 3.6
ATTEMP TO CHILL : YES NO
S.D

CERTIFICATE OF ANALYSIS

Work Order	: **EM2318624**	Page	: 1 of 6
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: LEVEL 8, 180 LONSDALE ST MELBOURNE VIC, AUSTRALIA 3001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: [redacted]
Project	: 12622419	Date Samples Received	: 18-Oct-2023 09:55
Order number	: ----	Date Analysis Commenced	: 19-Oct-2023
C-O-C number	: ----	Issue Date	: 23-Oct-2023 12:01
Sampler	: NM		
Site	:		
Quote number	: EN/000		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Chemist - Inorganics	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	FS01	----	----	----	----
				Sampling date / time	16-Oct-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM2318624-001	--------	--------	--------	--------
					Result	---	---	---	---
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%		3.6	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	----	----	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	FS01	----	----	----	----
				Sampling date / time	16-Oct-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM2318624-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231A: Perfluoroalkyl Sulfonic Acids - Continued									
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0 0002	mg/kg		<0.0002	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0 0002	mg/kg		0 0002	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		0 0002	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	FS01	----	----	----	----
				Sampling date / time	16-Oct-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EM2318624-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		<0.0002	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		<0.0002	----	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		<0.0002	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**88.0**	----	----	----	----
Toluene-D8	2037-26-5	0.2	%		**84.2**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**107**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**112**	----	----	----	----
13C8-PFOA	----	0.0002	%		**102**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

QUALITY CONTROL REPORT

Work Order	: **EM2318624**	Page	: 1 of 9
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: LEVEL 8, 180 LONSDALE ST MELBOURNE VIC, AUSTRALIA 3001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: [redacted]
Project	: 12622419	Date Samples Received	: 18-Oct-2023
Order number	: ----	Date Analysis Commenced	: 19-Oct-2023
C-O-C number	: ----	Issue Date	: 23-Oct-2023
Sampler	: NM		
Site	:		
Quote number	: EN/000		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Chemist - Inorganics	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5369672)									
EM2318544-001	Anonymous	EA055: Moisture Content	----	0.1	%	27.1	27.7	2.5	0% - 20%
EM2318633-002	Anonymous	EA055: Moisture Content	----	0.1	%	19.5	18.8	3.8	0% - 50%
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5369274)									
EM2318516-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EM2318623-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5369572)									
EM2318624-001	FS01	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EM2318593-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	180	150	15.4	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	220	190	13.8	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5369274)									
EM2318516-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EM2318623-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5369572)									
EM2318624-001	FS01	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EM2318593-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	370	320	14.5	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 5369274)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 5369274) - continued									
EM2318516-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2318623-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5372137)									
EM2318553-092	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0008	0.0007	14.5	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2318677-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0019	0.0019	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.122	0.112	8.2	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5372137)									
EM2318553-092	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2318677-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5372137) - continued									
EM2318677-001	Anonymous	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0002	0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5372137)									
EM2318553-092	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2318677-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5372137)									
EM2318553-092	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5372137) - continued									
EM2318553-092	Anonymous	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2318677-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5372137)									
EM2318553-092	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0008	0.0007	13.3	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0008	0.0007	13.3	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0008	0.0007	13.3	No Limit
EM2318677-001	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.124	0.114	8.4	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.124	0.114	8.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.124	0.114	8.4	0% - 20%

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5369274)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	88.3	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5369572)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	860 mg/kg	97.0	75.0	128
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2770 mg/kg	97.0	82.0	123
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1520 mg/kg	95.8	82.4	121
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5369274)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	90.6	59.3	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5369572)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1130 mg/kg	98.8	77.0	130
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	3730 mg/kg	96.4	81.5	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	260 mg/kg	95.7	73.3	137
EP080: BTEXN (QCLot: 5369274)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	85.1	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	83.7	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	85.3	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	89.2	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	99.5	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	90.0	61.8	123
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5372137)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	87.1	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	86.1	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	94.2	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	105	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	94.0	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	102	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5372137)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	82.9	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.9	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.0	70.0	132

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5372137) - continued								
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	85.6	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.7	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.2	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	80.0	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.3	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.8	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.9	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5372137)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.4	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	90.8	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.7	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.9	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5372137)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	86.2	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	94.5	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	93.0	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	102	70.0	130
EP231P: PFAS Sums (QCLot: 5372137)								
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Matrix Spike (MS) Report: Spike	SpikeRecovery(%)	Acceptable Limits (%)

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Matrix Spike (MS) Report: Acceptable Limits (%) Low	Matrix Spike (MS) Report: Acceptable Limits (%) High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5369274)							
EM2318516-002	Anonymous	EP080: C6 - C9 Fraction	----	28 mg/kg	76.1	33.4	124
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5369572)							
EM2318492-001	Anonymous	EP071: C10 - C14 Fraction	----	860 mg/kg	100	71.2	125
		EP071: C15 - C28 Fraction	----	2770 mg/kg	99.1	75.6	122
		EP071: C29 - C36 Fraction	----	1520 mg/kg	98.5	78.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5369274)							
EM2318516-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	73.8	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5369572)							
EM2318492-001	Anonymous	EP071: >C10 - C16 Fraction	----	1130 mg/kg	102	72.2	128
		EP071: >C16 - C34 Fraction	----	3730 mg/kg	98.7	76.5	119
		EP071: >C34 - C40 Fraction	----	260 mg/kg	102	66.8	138
EP080: BTEXN (QCLot: 5369274)							
EM2318516-002	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	103	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	100	57.1	131
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5372137)							
EM2318553-093	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	84.2	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	73.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	84.1	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	100	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	107	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	100.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5372137)							
EM2318553-093	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	89.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	80.7	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	98.9	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	85.6	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.6	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	93.2	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	83.6	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	93.3	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	85.1	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	78.3	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	91.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5372137)							
EM2318553-093	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	88.3	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	91.2	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5372137) - continued							
EM2318553-093	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	85.9	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	88.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	87.9	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	96.3	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	92.7	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5372137)							
EM2318553-093	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	94.9	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	91.3	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	97.2	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	90.0	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2318624**	Page	: 1 of 4
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: 12622419	Date Samples Received	: 18-Oct-2023
Site	:	Issue Date	: 23-Oct-2023
Sampler	: NM	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
FS01	**16-Oct-2023**	**----**	----	----	**19-Oct-2023**	30-Oct-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
FS01	**16-Oct-2023**	**19-Oct-2023**	30-Oct-2023	✓	**19-Oct-2023**	30-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP071)							
FS01	**16-Oct-2023**	**19-Oct-2023**	30-Oct-2023	✓	**20-Oct-2023**	28-Nov-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
FS01	**16-Oct-2023**	**19-Oct-2023**	30-Oct-2023	✓	**19-Oct-2023**	30-Oct-2023	✓
Soil Glass Jar - Unpreserved (EP071)							
FS01	**16-Oct-2023**	**19-Oct-2023**	30-Oct-2023	✓	**20-Oct-2023**	28-Nov-2023	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
FS01	**16-Oct-2023**	**19-Oct-2023**	30-Oct-2023	✓	**19-Oct-2023**	30-Oct-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
FS01	**16-Oct-2023**	**20-Oct-2023**	13-Apr-2024	✓	**23-Oct-2023**	29-Nov-2023	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
FS01	**16-Oct-2023**	**20-Oct-2023**	13-Apr-2024	✓	**23-Oct-2023**	29-Nov-2023	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
FS01	**16-Oct-2023**	**20-Oct-2023**	13-Apr-2024	✓	**23-Oct-2023**	29-Nov-2023	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
FS01	**16-Oct-2023**	**20-Oct-2023**	13-Apr-2024	✓	**23-Oct-2023**	29-Nov-2023	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
FS01	**16-Oct-2023**	**20-Oct-2023**	13-Apr-2024	✓	**23-Oct-2023**	29-Nov-2023	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

Appendix F

Quality Assurance/Quality Control

Appendix F
Table 1
Blind and Split Duplicate Results

Stable Property Group Pty Ltd
Hollydale Estate
Hollydale Estate PRSA

			Field ID	BH01_0.2	FD01		BH01_0.2	FS01	
			Date	16 Oct 2023	16 Oct 2023		16 Oct 2023	16 Oct 2023	
			Lab Report	1035574	1035574	RPD	1035574	EM2318624	RPD
Analyte	Unit	LOR							
Misc.									
% Moisture_	%	1		5.1	5.4	6	5.1	-	-
Naphthalene (value used in F2 calc)	mg/kg	0.5		<0.5	<0.5	0	<0.5	<1	0
Inorganics									
Moisture (%)	%	0.1		-	-	-	-	3.6	-
BTEXN									
Benzene	mg/kg	0.1		<0.1	<0.1	0	<0.1	<0.2	0
Toluene	mg/kg	0.1		<0.1	<0.1	0	<0.1	<0.5	0
Ethylbenzene	mg/kg	0.1		<0.1	<0.1	0	<0.1	<0.5	0
Xylene (o)	mg/kg	0.1		<0.1	<0.1	0	<0.1	<0.5	0
Xylene (m & p)	mg/kg	0.2		<0.2	<0.2	0	<0.2	<0.5	0
Xylene Total	mg/kg	0.3		<0.3	<0.3	0	<0.3	<0.5	0
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2		-	-	-	-	<0.2	-
TRH - NEPM 2013									
F1 (C6-C10 minus BTEX)	mg/kg	10		<20	<20	0	<20	<10	0
C6-C10 Fraction	mg/kg	10		<20	<20	0	<20	<10	0
F2 (>C10-C16 minus Naphthalene)	mg/kg	50		<50	<50	0	<50	<50	0
>C10-C16 Fraction	mg/kg	50		<50	<50	0	<50	<50	0
F3 (>C16-C34 Fraction)	mg/kg	100		<100	<100	0	<100	<100	0
F4 (>C34-C40 Fraction)	mg/kg	100		<100	<100	0	<100	<100	0
>C10-C40 (Sum of Total)	mg/kg	50		<100	<100	0	<100	<50	0
TRH - NEPM 1999									
C6-C9 Fraction	mg/kg	10		<20	<20	0	<20	<10	0
C10-C14 Fraction	mg/kg	20		<20	<20	0	<20	<50	0
C15-C28 Fraction	mg/kg	50		<50	<50	0	<50	<100	0
C29-C36 Fraction	mg/kg	50		<50	<50	0	<50	<100	0
C10-C36 (Sum of Total)	mg/kg	50		<50	<50	0	<50	<50	0
PFAS - Perfluoroalkyl Sulfonic Acids									
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005		<0.005	<0.005	0	<0.005	-	-
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
PFAS - Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	mg/kg	0.001		<0.005	<0.005	0	<0.005	<0.001	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorooctanoic acid (PFOA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0

			Field ID	BH01_0.2	FD01		BH01_0.2	FS01	
			Date	16 Oct 2023	16 Oct 2023		16 Oct 2023	16 Oct 2023	
			Lab Report	1035574	1035574	RPD	1035574	EM2318624	RPD
Analyte	Unit	LOR							
PFAS - Perfluoroalkyl Sulfonamide									
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002		<0.01	<0.01	0	<0.01	<0.0002	0
N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002		<0.01	<0.01	0	<0.01	<0.0002	0
PFAS - Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
6:2 Fluorotelomer Sulfonate (6:2 FTS)	mg/kg	0.0005		<0.01	<0.01	0	<0.01	<0.0005	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005		<0.005	<0.005	0	<0.005	<0.0005	0
PFAS - Sums									
Sum of PFHxS and PFOS	mg/kg	0.0002		<0.005	<0.005	0	<0.005	<0.0002	0
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005		<0.005	<0.005	0	<0.005	-	-
PFAS (Sum of Total)	mg/kg	0.0002		<0.05	<0.05	0	<0.05	<0.0002	0
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005		<0.005	<0.005	0	<0.005	-	-
PFAS (Sum of Total)(WA DER List)	mg/kg	0.0002		<0.01	<0.01	0	<0.01	<0.0002	0
PFAS									
Perfluorononane sulfonate (PFNS)	mg/kg	0.005		<0.005	<0.005	0	<0.005	-	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

		Field ID	TB01
		Date	16 Oct 2023
		Lab Report	1035574
Analyte	Unit	LOR	
Misc.			
Naphthalene (value used in F2 calc)	mg/L	0.01	<0.01
BTEXN			
Benzene	mg/L	0.001	<0.001
Toluene	mg/L	0.001	<0.001
Ethylbenzene	mg/L	0.001	<0.001
Xylene (o)	mg/L	0.001	<0.001
Xylene (m & p)	mg/L	0.002	<0.002
Xylene Total	mg/L	0.003	<0.003
TRH - NEPM 2013			
F1 (C6-C10 minus BTEX)	mg/L	0.02	<0.02
C6-C10 Fraction	mg/L	0.02	<0.02
TRH - NEPM 1999			
C6-C9 Fraction	mg/L	0.02	<0.02

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