
Contamination Assessment

351 St Kilda Road, St Kilda

Client

City of Port Phillip

Issued

2/06/2021



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Client:	City of Port Phillip	Surveying
Issued:	2/06/2021	Asset Recording
Version:	0	Civil Engineering
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Project Manager:	A.Mellett	Environmental Consulting
Project Number:	2101228	Water Resource Engineering
		Strata Certification (NSW)
		Town Planning
		Urban Design
		Landscape Architecture
		Project Management

Revision Table

REV	DESCRIPTION	DATE	AUTHORISED
0	Final	26/03/2021	A.Mellett

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Contents

1	INTRODUCTION	1
2	DESKTOP REVIEW	2
2.1	Aerial Photographs	2
2.2	EPA Priority Sites Register and Issued Certificates and Statements of Environmental Audit	2
2.3	Site History Review	5
2.4	Physical Site Settings	5
2.5	Site Inspection	6
3	POTENTIAL FOR CONTAMINATION.....	7
4	SOIL CONTAMINATION ASSESSMENT	8
4.1	Assessment Guidelines and Criteria	8
4.1.1	NEPM (Amendment 2013) Ecological Investigation Levels Criteria Derivation	8
4.2	Field Methodology	9
4.3	Soil Investigations	10
4.3.1	Boreholes	10
4.3.2	Soil Observations.....	10
4.3.3	Contamination Ranking and PID Readings	10
4.4	Soil Chemical Testing Program	10
4.5	Soil Chemical Testing Results	11
5	DISCUSSION	12
5.1	Human Health	12
5.2	Maintenance of Ecosystems	12
5.3	Aesthetics	12
5.4	Offsite Disposal – EPA Fill Criteria	12
5.4.1	EPA Fill Criteria (After 1 July 2021)	12
6	QUALITY CONTROL	13
6.1	Soil Investigation	13
6.2	Quality Control Summary	13
7	CONCLUSIONS	14
7.1	Duty to Notify EPA Victoria – Upcoming Changes to the Environmental Protection Act	14
8	LIMITATIONS	15

Figures

FIGURE 1 - BOREHOLE SAMPLE LOCATION PLAN

Appendix

APPENDIX A	PLANNING PROPERTY REPORT
APPENDIX B	AERIAL PHOTOGRAPHS
APPENDIX C	SITE PHOTOGRAPHS
APPENDIX D	BOREHOLE LOGS
APPENDIX E	TABULATED SOIL RESULTS
APPENDIX F	NATA LABORATORY CERTIFICATES OF ANALYSIS

1 INTRODUCTION

At the request of City of Port Phillip, Beveridge Williams & Co P/L (Beveridge Williams) conducted a Contamination Assessment of 351 St Kilda Road, St Kilda (referred to as "the site" in this report).

The purpose of the Contamination Assessment was to identify if the site contained potential for soil contamination (from current or historical site uses) that may pose an adverse risk to human health and/or the environment, whether there is a 'Duty to Notify' EPA Victoria of contaminated land and the need for further assessment, management or remediation of the site.

This report presents information on the site history, the results of a preliminary soil sampling and testing program, an evaluation of the chemical testing results with respect to relevant criteria and the extent and implications of testing results regarding the ongoing use of the site as a Council reserve.

2 DESKTOP REVIEW

2.1 Aerial Photographs

A review of historical aerial photographs from 1931, 1945, 1951, 1975, 2010 and 2019 was undertaken prior to attending the site. A summary is provided in Table 2-1. Copies of the aerial photographs are shown in Appendix A.

Table 2-1: Aerial Photography Review Summary

ITEM	SITE DETAILS
1931 DELWP	<p>Onsite: The site appears to be the rear portion of a larger lot and appears to be part of a commercial building or terrace style houses.</p> <p>Offsite: The surrounding area appears to mainly be residential and commercial. St Kilda Road is visible to the east as a small two lane road.</p>
1945 (DEWLP)	<p>Onsite: The site appears to be part of a vacant area behind the commercial building, with smaller structures visible along the western and southern boundary.</p> <p>Offsite: No significant changes are visible, a tramline has been constructed on Carlisle Street.</p>
1951 (DEWLP)	<p>Onsite: No significant changes are visible.</p> <p>Offsite: No significant changes are visible.</p>
1975 (DEWLP)	<p>Onsite: The site appears vacant. St Kilda Road has been expanded to its current width. The commercial structure and smaller buildings have been demolished and the lot has been reduced down to its current size.</p> <p>Offsite: St Kilda Road has been expanded and neighbouring properties have been reduced to fit the new road reserve, structures have been demolished to accommodate the expansion. A building has been built on the property immediately west of site.</p>
2010 (Nearmap)	<p>Onsite: No significant changes are visible. Tree growth is visible on site.</p> <p>Offsite: No significant changes are visible.</p>
2020 (Nearmap)	<p>Onsite: No significant changes are visible.</p> <p>Offsite: No significant changes are visible.</p>

2.2 EPA Priority Sites Register and Issued Certificates and Statements of Environmental Audit

The site is not listed on the EPA Priority Sites Register and there are no EPA Priority Sites within 500 m of the site.

A search of the list of issued Certificates and Statements of Environmental Audit revealed twenty seven EPA Priority Sites within 500 m of the site and two groundwater quality restricted used zones within 500m of the site. A summary of environmental audits within 200m of site are detailed in Table 2.

Table 2: Nearby Certificates or Statements of Environmental Audit

CARMS NO. / AUDIT TYPE	ADDRESS / DISTANCE TO SITE	REASON FOR AUDIT	RISK TO SITE (LOW/MEDIUM/HIGH)
70969-1 / 53X Statement of Environmental Audit / Completed 3/4/2013	10 Martin Street, St Kilda / approximately 160m northeast of the site	<p>Former use: Previous use as metal works (manufacturing gaskets, ornamental metallics) from 1960s to 2010. Current use as a warehouse with evidence of chemical storage and waste collection pit.</p> <p>Nature and extent of continuing risk: Elevated concentrations of lead and PAHs were detected in the fill material above HIL A criteria and above HIL D criteria for lead. A Groundwater assessment detected elevated concentrations of heavy metals (Co, Cu, Mn, Ni, Zn), chloride, sulphate, sodium and nitrate. It is noted that groundwater concentrations are attributed to natural background concentrations or regional background contamination.</p> <p>Outcome of audit: Statement of Environmental Audit indicating property suitable for high density residential, commercial & industrial use. On the conditions of a cap such as concrete floor slab or 0.5m of fill, and a restriction on extracting groundwater for uses such as agriculture and parks & gardens.</p>	<p>Low risk</p> <p>The soil impacts at the audit property are considered unlikely to impact the subject site.</p> <p>Groundwater flow direction from the audit property was inferred towards the southwest. While the audit site was not the source of the groundwater pollution, the direction of groundwater flow is towards the subject site.</p>
62851-1 / 53X Statement of Environmental Audit / Completed 17/07/2009	12, 14 & 18 Martin Street, St Kilda / approximately 180m northeast of the site	<p>Former use: The site was historically residential (up to early 1970s, then the site was converted into three warehouses. Site activities since then have included taxi truck depot, electroplating, polishing and metal finishing and most recently warehouses as storage.</p> <p>Nature and extent of continuing risk: Soils onsite are impacted with elevated concentrations of PAH's and lead above HIL A and D criteria. Groundwater pollution remains on the site and is impacted by PCE. EPA Victoria has determined that the audit site has been cleaned up to the extent practicable.</p> <p>Outcome of audit: Statement of Environmental Audit issued. On the conditions that site soils are protected by a barrier of permanent paving of 0.5m of clean fill, and groundwater is not used for primary contact recreation or any other precluded use.</p>	<p>Low risk</p> <p>The soil and groundwater impacts at the audit property are considered unlikely to impact the subject site.</p>

CARMS NO. / AUDIT TYPE	ADDRESS / DISTANCE TO SITE	REASON FOR AUDIT	RISK TO SITE (LOW/MEDIUM/HIGH)
41002-1 / 57AA Statement of Environmental Audit / Completed 29/02/2000	126 Carlisle Street/ approximately 190m east of the site	<p>Former use: Former motor engineer and motor mechanic site from 1927-1974, further anecdotal evidence this continued until closure in 1990s. Leather dressing and dyeing company in surrounding areas. Current use residential and nail salon.</p> <p>Nature and extent of continuing risk: Concentrations of analytes related to underground fuel storage tanks present in site soils (BTEX and TPH) and groundwater (BTEX). Concentrations may present a long-term risk to human health.</p> <p>Outcome of audit: The underground storage tanks were removed and contaminated soils removed from site. A Statement of Environmental Audit was issued with the condition of "residential use with minimal access to the soil".</p>	<p>Low risk</p> <p>The soil and groundwater impacts at the audit property are considered unlikely to impact the subject site.</p>
35620-1 / 57AA Statement of Environmental Audit / Completed 16/08/1998	120-124 Carlisle Street/ approximately 180m east of the site	<p>Former use: The site has historically been residential or commercial/retail up until 19506, where it was a confectionary manufacturer until 1985 where it became retail. A 2,000L UST was identified to be on site.</p> <p>Nature and extent of continuing risk: Concentrations of analytes related to fuel storage tanks present in site soils (lead, zinc, PAHs, TPH) were found exceeding NEHF HIL criteria, and groundwater (BTEX). Concentrations may present a long-term risk to human health.</p> <p>Outcome of audit: Statement of Environmental Audit issued with the site being suitable for high density residential provided appropriate barriers (paving, concrete etc) are in place to prevent access to contaminated soils.</p>	<p>Low risk</p> <p>The soil and groundwater impacts at the audit property are considered unlikely to impact the subject site.</p>

2.3 Site History Review

Historical information on the site and surrounding area is summarised in Table 2-3.

Table 2-3: Site History Review

DATA / SOURCE	SUMMARY
<p>Sands & McDougall Directory Search</p> <p>Via the Unearthed Victoria Portal¹</p>	<p>The search revealed that the site was listed as an engineers in 1965, with the surrounding listed properties listed as commercial/retail.</p> <p>Based on the review of the Sand & McDougall listed businesses operated in the surrounding area, no listed businesses were considered to present a contamination risk to the site.</p>
<p>MMBW Plans</p> <p>Via State Library of Victoria</p>	<p>A search of the online MMBW plans was conducted on 21 May 2021. Detail Plan No. 1372 shows that the site is part of an unmarked large lot surrounded by residential structures and a sawmill immediately west of site.</p>

2.4 Physical Site Settings

Information on the physical site setting and conditions are summarised in Table 2-4.

Table 2-4: Environmental Data Summary – Physical Site Settings and Conditions

DATA / SOURCE	SUMMARY		
<p>Geology</p> <p>DPI GeoVic version 3² website</p>	<p>A review of the DPI GeoVic version 3³ website indicates that the site is situated on Miocene to Pliocene aged Red Bluff Sandstone (Nbr) comprising sandstone, conglomerate; pale yellow and brown; fine to coarse-grained, massive to well bedded; cross-bedded; local ironstone.</p>		
<p>Topography</p>	<p>The site is generally flat</p>		
<p>Surface Water Features</p>	<p>No surface water features are visible onsite.</p>		
<p>Drainage</p>	<p>Surface water on the site is expected to flow into nearby drainage infrastructure on St Kilda Road.</p>		
<p>Previous Beveridge Williams Reports</p>	<p>Beveridge Williams has previously conducted a hydrogeological contamination assessment on the property directly south west of site (within 30m of the site).</p> <p>The hydrological contamination assessment found no elevated concentrations for any contaminants of concern.</p>		
<p>Groundwater Conditions</p>	<table border="1"> <tr> <td><i>Groundwater Depth</i></td> <td>Less than 5.0 m below ground surface.</td> </tr> </table>	<i>Groundwater Depth</i>	Less than 5.0 m below ground surface.
<i>Groundwater Depth</i>	Less than 5.0 m below ground surface.		

¹ <https://mapshare.vic.gov.au/victoriaunearthed/> - (online) accessed January 2021

² http://er-info.dpi.vic.gov.au/sd_weave/anonymous.html - (online) accessed January 2021

³ http://er-info.dpi.vic.gov.au/sd_weave/anonymous.html - (online) accessed June 2019

DATA / SOURCE	SUMMARY	
Visualising Victoria's Groundwater ⁴ database	<i>Inferred Groundwater Flow Direction</i>	Groundwater beneath the site is considered likely to be following regional topography towards Port Phillip Bay to the west.
	<i>Total Dissolved Solids (TDS)</i>	Between 1,000 – 3,500 mg/L
	<i>Groundwater Segment</i>	Segment A2 (Based on TDS)
	<i>Protected Beneficial Uses</i>	<p>The protected beneficial uses of Segment A2 groundwater, as per the State Environment Protection Policy (SEPP) for Waters (2018), are listed below:</p> <ul style="list-style-type: none"> • Water dependent ecosystems and species • Acceptable potable water supply • Potable mineral water supply • Stock Water • Industrial / commercial water use • Water-based recreation (primary contact recreation) • Traditional Owner cultural values • Cultural and spiritual values • Buildings and structures • Geothermal properties

2.5 Site Inspection

An inspection of the site was carried out by a Beveridge Williams Environmental Professional on 25 May 2021. The following observations were made during the site inspection:

- The site was accessed via St Kilda Road
- The site was mostly clear with some trees along the north, west and south boundaries
- The surrounding buildings to the north and west were apartments, with the property to the south being vacant
- Some sparse rubbish was observed on surface including glass

⁴ <http://www.vvg.org.au/> - (online) accessed January 2021

3 POTENTIAL FOR CONTAMINATION

Based on historical sources of information and site inspection, Beveridge Williams considers that the site was historically used as residential/commercial and a Council reserve.

Beveridge Williams considers the risk of widespread contamination across the majority of the site as medium, depending on the origin of any fill onsite.

Beveridge Williams considers that there is a low risk of adverse contamination from offsite activities based on the distance and groundwater flow direction from nearby audit properties and potentially contaminating businesses/activities (current and historical).

Based on the information provided by the site history and site inspection, the following activities and potential contaminants of concern have been listed in Table 3-1.

Table 3-1: Potential Contamination Sources

Source / Site Activities	Onsite / Offsite	Location	Contaminants
Imported fill material	Onsite	Entire Site	Heavy metals, organochlorine pesticides (OCP), polycyclic aromatic hydrocarbons (PAH), total recoverable hydrocarbons (TRH), asbestos-containing materials
Site buildings/structures (Historical)	Onsite	Localised areas onsite	Possible asbestos containing materials and heavy metals (eg. Lead paints)

4 SOIL CONTAMINATION ASSESSMENT

4.1 Assessment Guidelines and Criteria

The Victorian State Environmental Protection Policy (SEPP), Prevention and Management of Contaminated Land (June 2002, updated September 2013) lists the beneficial uses for each segment of land to be protected.

Table 4-1: Protected Beneficial Uses of Land

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

Note: Table 4-1 is a reproduction of 'Table 1 – Protected Beneficial Uses of Land' from the State Environment Protection Policy (Prevention and Management of Contamination of Land), June 2002. 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 (EPA Industrial Waste Resource Guidelines (IWRG) Publication No. 621 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 C and Category B Contaminated Soil) has been referenced also.
- Human health** – NEPM (Amendment 2013) Human Health Investigation Levels (HIL) for low-density residential with gardens / accessible soil, including children's daycare centres, kindergartens, preschools and primary schools (HIL/HSL 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).

4.1.1 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'.

Based on the site history and current site uses, 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 (2013 Amendment)). Therefore Beveridge Williams has adopted the "aged" values listed in Appendix A of NEPM 2013 Amendment Schedule B5a "Guide on Ecological Risk Assessment" for urban residential/public open space for reporting purposes.

4.2 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.

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

4.3 Soil Investigations

4.3.1 Boreholes

On 25 May 2021 a total of five borehole samples (BH01 to BH05) were manually drilled with a hand auger on an approximate grid across the site. With samples taken at surface (0.0-0.1 m depth), as well as each distinct soil layer encountered until termination of the borehole in natural soils.

Borehole sample locations are shown on Appendix D.

4.3.2 Soil Observations

A brown to light brown silty clay to clayey silt fill layer was identified at all locations on site up to a maximum depth of 0.6 mBGL in BH05. The fill material contained inclusions of crushed basalt, brick and tiles in all locations. This was underlain by a brown sandy SILT disturbed natural layer, which was underlain by grey silty SAND and brown mottled grey silty CLAY natural layers.

Logs of the boreholes are presented in Appendix D. Borehole sample locations are shown on Figure 1.

4.3.3 Contamination Ranking and PID Readings

No odours or visible signs of contamination were noted in soil samples.

Table 4-2: Soil Sample Contamination Rankings

CONTAMINATION RANKING	SAMPLE	REASON
0	All Beveridge Williams samples	No odour or visual evidence of contamination

All soil samples were screened in the field with a photoionisation detector (PID). The PID response recorded for all samples were at or below 1.2 ppm.

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

4.4 Soil Chemical Testing Program

The chemical testing program for individual samples is detailed in Table 4-3.

Table 4-3: Soil Sample Chemical Testing Program

SAMPLE NUMBERS	TESTING PROGRAM
BH01/0.0-0.1	EPA 621 Clean Fill Screen ⁵ ,
BH01/0.2-0.3, BH02/0.0-0.1, BH03/0.0-0.1, BH04/0.0-0.1, BH05/0.0-0.1, BH05/0.1-0.2	Heavy metals ⁶ , Polycyclic Aromatic Hydrocarbons (PAH)
BH02/0.0-0.1, BH03/0.0-0.1, BH04/0.0-0.1, BH05/0.0-0.1	Total Recoverable Hydrocarbons (TRH)

⁵An EPA 621 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, Ti, Th, Sn, Ti, U, V, Zn

4.5 Soil Chemical Testing Results

With the exception of the below samples and analytes, all testes analyte concentrations were reported below the adopted criteria, including all health criteria (NEPM HIL A and NEPM HIL C)

Table 4-4: Chemical Testing Results - Soil Chemical Testing Results, NEPM and EPA Exceedances

ANALYTE	NUMBER OF SAMPLES TESTED	MIN CONC. (MG/KG)	MAX CONC. (MG/KG)	NEPM (AMENDMENT 2013) EIL AGED CRITERIA (URBAN RESIDENTIAL/PUBLIC OPEN SPACE)	SAMPLES EXCEEDING EPA IWRG 621	
					EPA FILL LIMIT CRITERIA	EPA CATEGORY C LIMIT CRITERIA
Zinc	7	26	260	BH01/0.0-0.1, BH02/0.0-0.1, BH03/0.0-0.1, BH04/0.0-0.1, BH05/0.0-0.1	BH02/0.0-0.1, BH04/0.0-0.1	None
Benzo(a) pyrene	7	<0.1	1.7	None	BH02/0.0-0.1	None

Tabulated soil data is presented in Appendix E. NATA Laboratory Certificates of Analysis are presented in Appendix F.

5 DISCUSSION

5.1 Human Health

All samples tested reported concentrations of all analytes below the NEPM (Amendment 2013) Human Health (HIL A) criteria.

Beveridge Williams does not consider these concentrations to pose a risk to human health as the reported concentrations remain well below the adopted criteria.

5.2 Maintenance of Ecosystems

Concentrations of zinc (up to 260 mg/kg) and benzo(a)pyrene (up to 1.7 mg/kg) were reported above the NEPM (Amendment 2013) EIL/ESL Criteria for urban residential/open public space. In Beveridge Williams' experience, the elevated zinc and B(a)P concentrations are unlikely to affect most vegetation types and existing vegetation and garden health across the site appeared good.

5.3 Aesthetics

Fill inclusions (crushed rock, brick, tile and glass fragments) were noted in boreholes BH01, BH02, BH03 and BH05. Glass was also noted at the surface of the site. The glass and fill inclusions may be considered to pose a problem if left exposed at surface. Beveridge Williams considers the beneficial use of aesthetics to remain protected provided the glass and fill inclusions are removed or do not become exposed.

No potential asbestos-containing materials were observed in the borehole locations.

5.4 Offsite Disposal – EPA Fill Criteria

Concentrations of zinc and benzo(a)pyrene within locations BH02 and BH04 exceed the concentrations listed in the Industrial Waste Resource Guidelines, listed in the Industrial Waste Resource Guidelines, EPA Publication 621. Beveridge Williams considers that soils around BH02 and BH04 are indicatively classified as EPA Category C Contaminated Soils.

5.4.1 EPA Fill Criteria (After 1 July 2021)

New EPA Publication 1828.2 "Waste disposal categories – characteristics and threshold8 details the characteristics and thresholds necessary for complying with the new regulations effective from 1 July 2021, specifically, classification of wastes to determine the relevant waste disposal category in accordance with Schedule 6 of the Regulations. Based on the thresholds, site soils are considered to be classified as EPA Fill Material, with soils around BH02 and BH04 classified as EPA Category D Contaminated Soils.

If soils are to be disposed offsite, soils must be classified and removed from site in accordance with EPA guidelines and regulations.

6 QUALITY CONTROL

6.1 Soil Investigation

Secondary laboratory testing of one split sample (BH04/0.0-0.1A) was undertaken by Eurofins and one field duplicate (210525-S-D02) was chemically tested by ALSWRG. Four Relative Percentage Difference (RPD) results were reported above 50% for the analytes Anthracene, Phenanthrene, Benzo(a)pyrene TEQ calc (Zero) and PAHs (Sum of total).

Two rinsate samples (210525-S-RB01 and 210525-S-RB02) were taken but not chemically tested.

6.2 Quality Control Summary

It is considered that the overall quality of the soil analyses carried out by ALSWRG is acceptable.

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 and Eurofins are considered to be acceptable in terms of data quality. Beveridge Williams has adopted the primary reported analyte concentrations for all discussions and interpretations relating to the contamination assessment.

7 CONCLUSIONS

Beveridge Williams has completed a contamination assessment of the site comprising a site history evaluation as well as soil sampling and testing.

No analyte concentrations were reported above the human health criteria for low density residential (HIL A) in the tested samples. Based on the chemical testing results, Beveridge Williams considers the site is suitable for sensitive use including low density residential and childcare and its current use as a Council reserve.

7.1 Duty to Notify EPA Victoria – Upcoming Changes to the Environmental Protection Act

Based on the findings of this assessment Beveridge Williams considers that City of Port Phillip does not have a 'Duty to Manage' (DtM) or a 'Duty to Notify' (DtN) EPA Victoria of contaminated land under the new Environmental Protection Amended Act 2018 effective 1 July 2021.

8 LIMITATIONS

Soil and rock formations are variable. The borehole 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

Approved for issue by



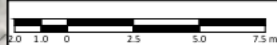
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FIGURES

FIGURE 1 - BOREHOLE SAMPLE LOCATION PLAN

- Approximate Site Location
- BH01 Approximate Soil Bore Location



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APPENDIX A PLANNING PROPERTY REPORT

PLANNING PROPERTY REPORT



From www.planning.vic.gov.au at 02 June 2021 12:30 PM

PROPERTY DETAILS

Lot and Plan Number: **Lot 1 TP122000**
 Address: **2/92 CARLISLE STREET ST KILDA 3182**
 Standard Parcel Identifier (SPI): **1\TP122000**
 Local Government Area (Council): **PORT PHILLIP** www.portphillip.vic.gov.au
 Council Property Number: **183773 (Part)**
 Planning Scheme: **Port Phillip** [Planning Scheme - Port Phillip](#)
 Directory Reference: **Melway 2P E9**

This parcel is one of 2 parcels comprising the property. For full parcel details get the free Property report at [Property Reports](#)

UTILITIES

Rural Water Corporation: **Southern Rural Water**
 Melbourne Water Retailer: **South East Water**
 Melbourne Water: **Inside drainage boundary**
 Power Distributor: **CITIPOWER**

STATE ELECTORATES

Legislative Council: **SOUTHERN METROPOLITAN**
 Legislative Assembly: **ALBERT PARK**

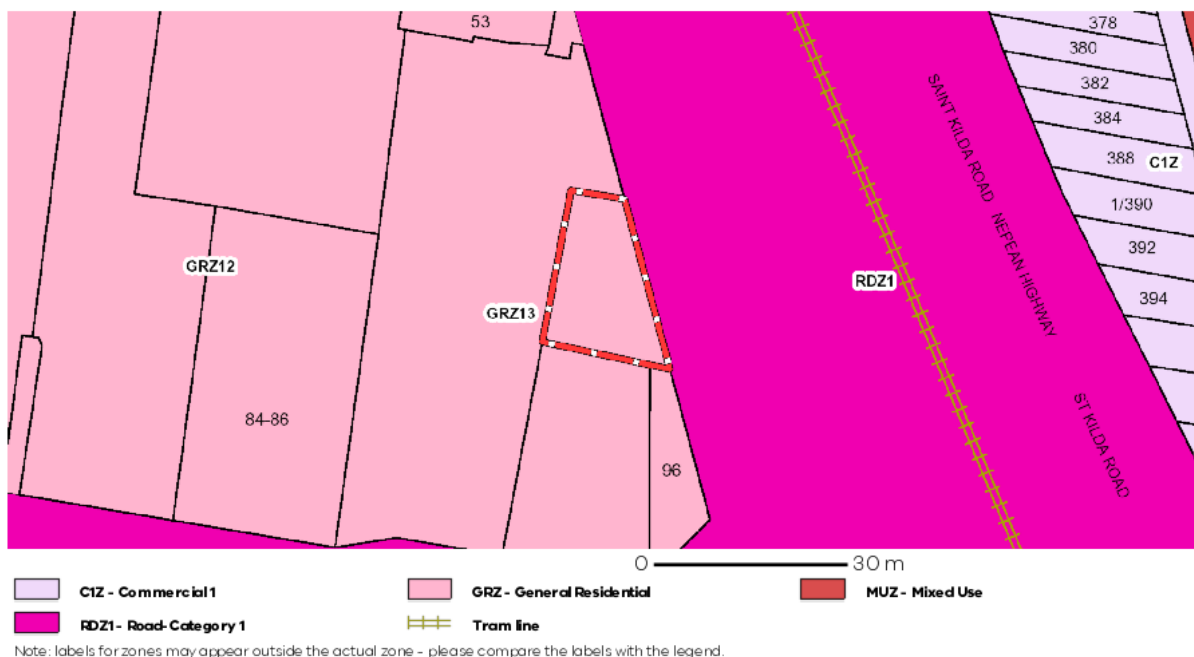
OTHER

Registered Aboriginal Party: **None**

[View location in VicPlan](#)

Planning Zones

[GENERAL RESIDENTIAL ZONE \(GRZ\)](#)
[GENERAL RESIDENTIAL ZONE - SCHEDULE 13 \(GRZ13\)](#)



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

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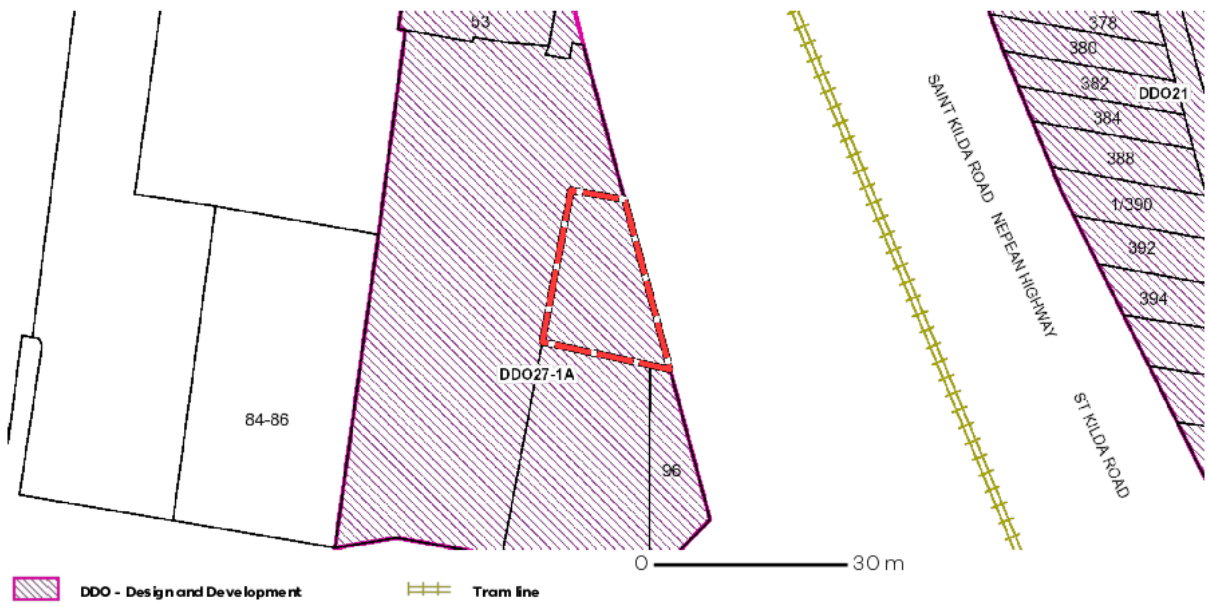
Notwithstanding this disclaimer, a vendor may rely on the information in this report for the purpose of a statement that land is in a bushfire prone area as required by section 32C (b) of the Sale of Land Act 1962 (Vic).

PLANNING PROPERTY REPORT



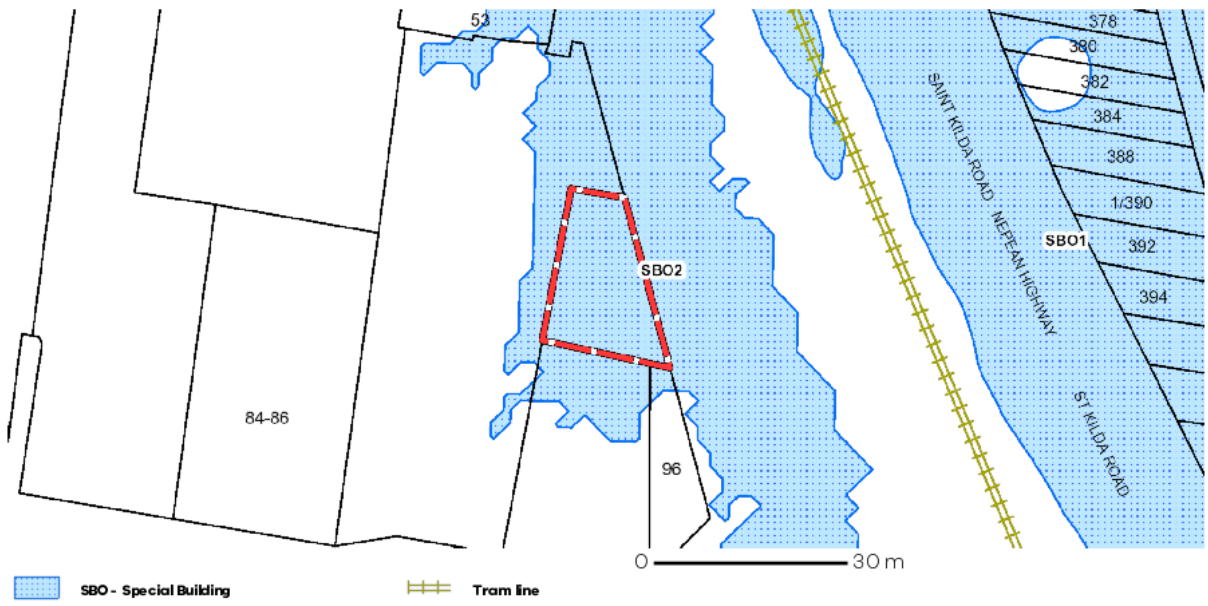
Planning Overlays

DESIGN AND DEVELOPMENT OVERLAY (DDO)
DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 271A (DDO27-1A)



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

SPECIAL BUILDING OVERLAY (SBO)
SPECIAL BUILDING OVERLAY - SCHEDULE 2 (SBO2)



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



Further Planning Information

Planning scheme data last updated on 27 May 2021.

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 affect 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>

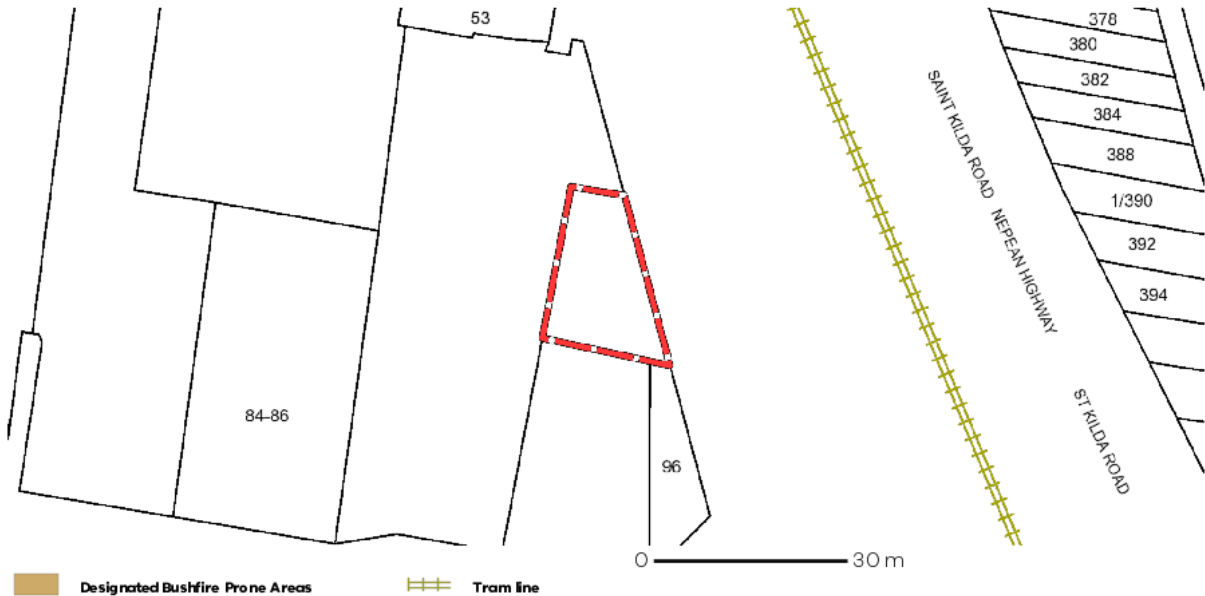
For other information about planning in Victoria visit <https://www.planning.vic.gov.au>

PLANNING PROPERTY REPORT



Designated Bushfire Prone Areas

This parcel is not in a designated bushfire prone area.
No 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 \(environment.vic.gov.au\)](https://www.environment.vic.gov.au/) or please contact your relevant council.

You can find out more about the natural values on your property through NatureKit [NatureKit \(environment.vic.gov.au\)](https://www.environment.vic.gov.au/naturekit/)

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 Notwithstanding this disclaimer, a vendor may rely on the information in this report for the purpose of a statement that land is in a bushfire prone area as required by section 32C (b) of the Sale of Land Act 1962 (Vic).

APPENDIX B AERIAL PHOTOGRAPHS

LOCATION: 351 ST KILDA ROAD, ST KILDA



1931



1945



1951



1975

Location: 351 St Kilda Road, St Kilda



2010



2021

APPENDIX C SITE PHOTOGRAPHS









Photograph 1: View facing the north. The site is mostly flat and grassed, with some trees planted near the boundary. The neighbouring properties are apartments.







Photograph 2: View facing the southern portion of site. The brick fence along the southern boundary is a remaining wall from a demolished building.



APPENDIX D BOREHOLE LOGS

 Beveridge Williams development & environment consultants 1 Glenferrie Road, Malvern VIC 3144 Ph: 03 9524 8888 Fax: 03 9524 8899 www.beveridgewilliams.com.au		BH01							
		Soil Bore	PAGE 1 OF 1						
Client:	City of Port Phillip	Project number:	2101228						
Project:	Contamination Assessment	Logged/prepared by:	L.Stovell						
Location:	351 St Kilda Road, St Kilda	Checked by:	A.MELLETT						
Date started:	25/05/2021	Date completed:	25/05/2021						
Driller:	Beveridge Williams	Borehole depth (m):	1.1						
Drilling equipment:	Hand Auger	Borehole diameter (mm):	80						
Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger None observed				FILL (ML) - clayey silt; brown; sand (fine to medium grained, gap-graded, sub-angular), fill inclusions (basalt, brick); rootlets; no odour; moist	FILL	M	0.0	0	BH01/0.0-0.1
				FILL (CL) - silty clay; light brown; sand (fine to medium grained, gap-graded, sub-angular), crushed rock inclusions (basalt, brick); low plasticity no odour; moist			0.0	0	BH01/0.2-0.3
		0.5		ML - sandy SILT; brown; sand (fine to medium grained, gap graded, sub-angular), weathered sandstone inclusions; no odour; moist	DISTURBED NATURAL		0.0	0	BH01/0.4-0.5
				SM - silty SAND; fine to medium grained; gap graded; sub-angular; grey; weathered sandstone; no odour; moist	NATURAL		0.0	0	BH01/0.8-0.9
		1.0		CL - silty CLAY; low plasticity; brown mottled grey; firm; sand (fine to medium grained, gap graded, sub-angular); no odour; moist			0.5	0	BH01/1.0-1.1
				End of borehole at 1.1 m					


Report: ENV BH Project: 2101228 - 351 ST KILDA RD.GPJ Template: GINT STD AUSTRALIA.GDT Created: 2/6/21

 Beveridge Williams development & environment consultants 1 Glenferrie Road, Malvern VIC 3144 Ph: 03 9524 8888 Fax: 03 9524 8899 www.beveridgewilliams.com.au				BH02					
				Soil Bore		PAGE 1 OF 1			
Client:		City of Port Phillip		Project number:		2101228			
Project:		Contamination Assessment		Logged/prepared by:		L.Stovell			
Location:		351 St Kilda Road, St Kilda		Checked by:		A.MELLETT			
Date started:		25/05/2021	Date completed:	25/05/2021	Borehole depth (m):		1.0		
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	0.5		FILL (ML) - sandy silt; brown; sand (fine to medium grained, gap-graded, sub-angular), fill inclusions (basalt, brick, tile); rootlets; no odour; dry	FILL	D	0.3	0	BH02/0.0-0.1
				ML - sandy SILT; brown; sand (fine to medium grained, gap-graded, sub-angular); rootlets; no odour; dry	DISTURBED NATURAL		0.0	0	BH02/0.5-0.6
				CL - silty CLAY; low plasticity; brown mottled grey; firm; sand (fine to medium grained, gap graded, sub-angular); no odour; moist	NATURAL	M	0.3	0	BH02/0.8-0.9
		1.0		End of borehole at 1.0 m					


Report: ENV BH Project: 2101228 - 351 ST KILDA RD.GPJ Template: GINT STD AUSTRALIA.GDT Created: 2/6/21

 Beveridge Williams development & environment consultants 1 Glenferrie Road, Malvern VIC 3144 Ph: 03 9524 8888 Fax: 03 9524 8899 www.beveridgewilliams.com.au		BH03							
		Soil Bore	PAGE 1 OF 1						
Client:	City of Port Phillip	Project number:	2101228						
Project:	Contamination Assessment	Logged/prepared by:	L.Stovell						
Location:	351 St Kilda Road, St Kilda	Checked by:	A.MELLETT						
Date started:	25/05/2021	Date completed:	25/05/2021						
Driller:	Beveridge Williams	Borehole depth (m):	1.0						
Drilling equipment:	Hand Auger	Borehole diameter (mm):	80						
Method	Water	Depth (m)	Graphic Log	Material Description	Observations	Moisture	PID (ppm)	Contamination Ranking	Sample details
Hand Auger	None observed	0.5		FILL (ML) - sandy silt; brown; sand (fine to medium grained, gap-graded, sub-angular), fill inclusions (basalt, brick, tile); rootlets; no odour; dry	FILL	D	0.0	0	BH03/0.0-0.1
				FILL (CL) - silty clay; light brown; sand (fine to medium grained, gap-graded, sub-angular), crushed rock inclusions (basalt, brick); low plasticity no odour; dry			0.0	0	BH03/0.1-0.2
				ML - sandy SILT; brown; sand (fine to medium grained, gap graded, sub-angular); no odour; moist	DISTURBED NATURAL	M			
				SM - silty SAND; fine to medium grained; gap graded; sub-angular; grey; weathered sandstone; no odour; moist	NATURAL		0.2	0	BH03/0.5-0.6
				CL - silty CLAY; low plasticity; brown mottled grey; firm; sand (fine to medium grained, gap graded, sub angular); no odour; moist			1.2	0	BH03/0.8-0.9
		1.0					0.1	0	BH03/0.9-1.0
				End of borehole at 1.0 m					

Report: ENV BH Project: 2101228 - 351 ST KILDA RD.GPJ Template: GINT STD AUSTRALIA.GDT Created: 2/6/21

 Beveridge Williams development & environment consultants 1 Glenferrie Road, Malvern VIC 3144 Ph: 03 9524 8888 Fax: 03 9524 8899 www.beveridgewilliams.com.au				BH04					
				Soil Bore		PAGE 1 OF 1			
Client:		City of Port Phillip		Project number:		2101228			
Project:		Contamination Assessment		Logged/prepared by:		S.Tomkinson			
Location:		351 St Kilda Road, St Kilda		Checked by:		A.MELLETT			
Date started:		25/05/2021	Date completed:	25/05/2021	Borehole depth (m):		1.0		
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	0.5		FILL (ML) - clayey silt; brown; sand (fine to medium grained, gap graded, sub-angular); clay inclusions (orange and grey, low plasticity); no odour; moist	FILL	M	0.0	0	BH04/0.0-0.1 BH04/0.0-0.1A 210525-S-D02
				ML - sandy SILT; brown; sand (fine to medium grained, gap graded, sub-angular); no odour; moist	DISTURBED NATURAL		0.0	0	BH04/0.3-0.4
				SM - silty SAND; fine to medium grained; gap graded; sub-angular; grey; trace sandstone gravel; no odour; moist	NATURAL		0.4	0	BH04/0.6-0.7
				CL - silty CLAY; LP; brown mottled grey; firm; sand (fine to medium grained, gap graded, sub-angular); no odour; moist			0.6	0	BH04/0.9-1.0
		1.0		End of borehole at 1.0 m					

Report: ENV BH Project: 2101228 - 351 ST KILDA RD.GPJ Template: GINT STD AUSTRALIA.GDT Created: 2/6/21

 Beveridge Williams development & environment consultants 1 Glenferrie Road, Malvern VIC 3144 Ph: 03 9524 8888 Fax: 03 9524 8899 www.beveridgewilliams.com.au		BH05						
		Soil Bore	PAGE 1 OF 1					
Client:	City of Port Phillip	Project number:	2101228					
Project:	Contamination Assessment	Logged/prepared by:	S.Tomkinson					
Location:	351 St Kilda Road, St Kilda	Checked by:	A.MELLETT					
Date started:	25/05/2021	Date completed:	25/05/2021					
Driller:	Beveridge Williams	Borehole depth (m):	1.1					
Drilling equipment:	Hand Auger							
Method	Water	Depth (m)	Graphic Log					
			Material Description					
			Observations					
			Moisture					
			PID (ppm)					
			Contamination Ranking					
			Sample details					
		0.5	FILL (ML) - clayey silt; brown; sand (fine to medium grained, gap graded, sub-angular); clay inclusions (orange and grey, low plasticity); no odour; moist FILL (CL) - silty clay; low plasticity; light brown; sand (fine to medium grained, gap graded, sub-angular); no odour; moist	FILL	M	0.0	0	BH05/0.0-0.1
						0.0	0	BH05/0.1-0.2
						0.0	0	BH05/0.5-0.6
			ML - sandy SILT; brown; sand (fine to medium grained, gap graded, sub-angular); no odour; moist	DISTURBED NATURAL		0.0	0	BH05/0.6-0.7
			SM - silty SAND; fine to medium grained; gap graded; sub-angular; grey; trace sandstone gravel; no odour; moist	NATURAL		0.0	0	BH05/0.8-0.9
		1.0	CL - silty CLAY; LP; brown mottled grey; firm; sand (fine to medium grained, gap graded, sub-angular); no odour; moist			0.1	0	BH05/1.0-1.1
			End of borehole at 1.1 m					

Report: ENV BH Project: 2101228 - 351 ST KILDA RD.GPJ Template: GINT STD AUSTRALIA.GDT Created: 2/6/21

Hand Auger

None observed

APPENDIX E TABULATED SOIL RESULTS

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

**Table 01
 Chemical Testing Results
 Soil**



		Metals																													
		Aluminium	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/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQ1		5	5	5	5	5	10	0.2	1	5	5	5	10	5	5	0.05	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
AS 2159-2009, Piling - Design and Installation - Soil																															
NEM Amendment 2013 EIL (urban residential/public open space) - aged				100						190		60		1,100					30										70		
NEM Amendment 2013 EIL (urban residential/public open space) - fresh				50						75		30		270					10										25		
EPA Vic IWRG621 Cat B				2,000				400	2,000			20,000		6,000		300	4,000	12,000	200	720									40,000		
EPA Vic IWRG621 Cat C				500				100	500			5,000		1,500		75	1,000	3,000	50	180	500								35,000		
EPA Vic IWRG621 Fill				20				3	1			100		300		1	40	60	10	10	50								200		
NEM 2013 Table 1B(6) ESs for Urban Res, Coarse Soil																															
NEM 2013 Table 1A(1) Hills Res A Soil				100		60	4,500	20	100		100	6,000		300	3,800	40		400	200										7,400		
NEM 2013 Table 1A(1) Hills Res B Soil				500		90	40,000	150	500		600	30,000		1,200	14,000	120		1,200	1,400										60,000		
NEM 2013 Table 1A(1) Hills Res C Soil				300		90	20,000	90	300		300	17,000		600	19,000	80		1,200	700										30,000		
NEM 2013 Table 1A(1) Hills Comm/Ind D Soil				3,000		500	100,000	900	3,600		4,000	240,000		1,500	60,000	790		6,000	10,000										400,000		
Field ID	Date	Depth	Sample Type																												
BH01/0.0-0.1	25/05/2021	0-0.1	Normal	-	<5	<5	45	<5	<10	<0.2	<1	22	5	21	-	100	110	0.11	<5	16	<3	<5	<5	<5	42	97					
BH01/0.2-0.3	25/05/2021	0.2-0.3	Normal	18,000	<5	18	45	<5	<10	<0.2	-	67	5	11	100,000	57	110	0.20	<5	13	<3	<5	<5	<5	150	30					
BH02/0.0-0.1	25/05/2021	0-0.1	Normal	7,500	<5	8	76	<5	<10	0.3	-	17	<5	57	10,000	140	120	0.60	<5	15	<3	<5	<5	9	26	260					
BH03/0.0-0.1	25/05/2021	0-0.1	Normal	4,300	<5	<5	46	<5	<10	0.2	-	10	<5	26	6,500	140	71	0.12	<5	11	<3	<5	<5	<5	13	160					
BH04/0.0-0.1	25/05/2021	0-0.1	Normal	4,100	<5	<5	60	<5	<10	0.3	-	9	<5	27	6,900	180	82	0.72	<5	10	<3	<5	<5	5	15	230					
BH05/0.0-0.1	25/05/2021	0-0.1	Normal	5,600	<5	<5	38	<5	<10	<0.2	-	11	<5	26	6,200	100	45	0.06	<5	7	<3	<5	<5	<5	15	81					
BH05/0.1-0.2	25/05/2021	0.1-0.2	Normal	7,000	<5	<5	24	<5	<10	<0.2	-	10	<5	<5	6,000	30	33	<0.05	<5	<5	<3	<5	<5	<5	18	26					

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

**Table 01
 Chemical Testing Results
 Soil**



	PAH																							
	2-chloronaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo[e]pyrene TEQ calc (Half)	Benzo[e]pyrene TEQ (LOR)	Benzo[e]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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1				
AS 2159-2009, Piling - Design and Installation - Soil																								
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																								
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																								
EPA Vic IWRG621 Cat B						20														400				
EPA Vic IWRG621 Cat C						5														100				
EPA Vic IWRG621 Fill						1														20				
NEPM 2015 Table 18(6) ESLs for Urban Res, Coarse Soil						0.7																		
NEPM 2015 Table 1A(1) HILs Res A Soil																	3	3	3	300				
NEPM 2015 Table 1A(1) HILs Res B Soil																	4	4	4	400				
NEPM 2015 Table 1A(1) HILs Res C Soil																	3	3	3	300				
NEPM 2015 Table 1A(1) HILs Comm/Ind D Soil																	40	40	40	4,000				
Field ID	Date	Depth	Sample Type	<0.1	<0.1	<0.1	<0.1	0.5	0.4	0.4	0.4	0.4	0.4	<0.1	0.9	<0.1	0.4	<0.1	0.2	0.9	0.7	0.8	0.7	5.0
BH01/0-0-0.1	25/05/2021	0 - 0.1	Normal	-	<0.1	<0.1	<0.1	0.2	0.2	0.2	0.2	0.2	0.2	<0.1	0.3	<0.1	0.1	<0.1	<0.1	0.3	0.3	0.4	0.3	1.9
BH01/0.2-0.3	25/05/2021	0.2 - 0.3	Normal	-	<0.2	0.3	0.4	1.6	1.7	1.3	1.5	1.2	1.3	0.4	2.9	<0.2	1.1	<0.2	1.5	3.0	2.6	2.6	2.6	18
BH02/0-0-0.1	25/05/2021	0 - 0.1	Normal	-	<0.1	<0.1	<0.1	0.3	0.4	0.3	0.3	0.3	0.3	<0.1	0.6	<0.1	0.3	<0.1	0.2	0.6	0.6	0.6	0.5	3.6
BH03/0-0-0.1	25/05/2021	0 - 0.1	Normal	-	<0.1	<0.1	0.2	0.8	1.0	0.8	0.7	0.7	0.9	0.1	1.7	<0.1	0.7	<0.1	0.8	1.6	1.4	1.4	1.4	10
BH04/0-0-0.1	25/05/2021	0 - 0.1	Normal	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.5	<0.1	<0.2	
BH05/0-0-0.1	25/05/2021	0 - 0.1	Normal	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.1	
BH05/0.1-0.2	25/05/2021	0.1 - 0.2	Normal	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.1	

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

Table 01
Chemical Testing Results
Soil



		Organochlorine Pesticides																									
		Other organochlorine pesticides EPA/C	4,4'-DDE	γ-BHC	Aldrin	Aldrin + Dieldrin	β-BHC	Chlordane	Chlordane (cis)	Chlordane (trans)	δ-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Oxydichlorane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQI		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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
AS 2159-2009, Piling - Design and Installation - Soil														180													
NEPM Amendment 2013 EL (urban residential/public open space) - aged														180													
NEPM Amendment 2013 EL (urban residential/public open space) - fresh														50										4.8			
EPA Vic IWRG621 Cat B		50			4.8		1.6							50										4.8			
EPA Vic IWRG621 Cat C		10			1.2		4							50										1.2			
EPA Vic IWRG621 F#1																											
NEPM 2013 Table 1B(8) ESLs for Urban Res, Coarse Soil																											
NEPM 2013 Table 1A(1) Hills Res A Soil					6		50							240		270				10				6		300	
NEPM 2013 Table 1A(1) Hills Res B Soil					10		90							600		400				20				10		500	
NEPM 2013 Table 1A(1) Hills Rec C Soil					10		70							400		340				20				10		400	
NEPM 2013 Table 1A(1) Hills Comm/Ind D Soil					45		330							3,600		2,000				100				50		2,500	
Field ID	Date	Depth	Sample Type	<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	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BH01/0 0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0 2-0.3	25/05/2021	0.2 - 0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0 0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0 0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0 0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0 0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0 1-0.2	25/05/2021	0.1 - 0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

Table 01
Chemical Testing Results
Soil



	TPH					TRH					BTEX					MAH							
	05-C9	Cl0-Cl4	Cl5-C28	Cl9-C16	Cl0-C16 (Sum of total)	Cl0-Cl6 (F2)	Cl0-Cl6 (F2 minus Naphthalene)	Cl6-C14 (F3)	Cl4-C10 (F4)	05-Cl0 (F1 minus BTEX)	Cl0-C10 (Sum of total)	05-Cl0 (F1)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	1,2,4-trimethylbenzene	Isopropylbenzene	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	mg/kg	mg/kg	mg/kg
EQL	20	20	50	50	50	20	20	50	50	20	50	20	0.5	0.5	0.5	1	0.5	1	1	0.5	0.5	0.5	
A5 2159-2009, Piling - Design and Installation - Soil																							
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																							
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																							
EPA Vic IWRG621 Cat B	2,600				40,000								16										
EPA Vic IWRG621 Cat C	650				10,000								4										
EPA Vic IWRG621 Fill	100				1,000								1										
NEPM 2015 Table 18(6) ESLs for Urban Res, Coarse Soil						120	120	300	2,800	180			50	85	70			105					
NEPM 2015 Table 1A(1) HILs Res A Soil																							
NEPM 2015 Table 1A(1) HILs Res B Soil																							
NEPM 2015 Table 1A(1) HILs Res C Soil																							
NEPM 2015 Table 1A(1) HILs Comm/Ind D Soil																							
Field ID	Date	Depth	Sample Type	<20	<20	<50	<50	<50	<20	<20	<50	<50	<20	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<0.5	<0.5	<0.5
BH01/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.2-0.3	25/05/2021	0.2 - 0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	25/05/2021	0 - 0.1	Normal	<20	<20	200	320	520	<20	<20	420	130	<20	550	<20	-	-	-	-	-	-	-	-
BH03/0.0-0.1	25/05/2021	0 - 0.1	Normal	<20	<20	93	160	250	<20	<20	200	68	<20	270	<20	-	-	-	-	-	-	-	-
BH04/0.0-0.1	25/05/2021	0 - 0.1	Normal	<20	<20	71	110	180	<20	<20	150	<50	<20	150	<20	-	-	-	-	-	-	-	-
BH05/0.0-0.1	25/05/2021	0 - 0.1	Normal	<20	<20	61	270	330	<20	<20	240	130	<20	370	<20	-	-	-	-	-	-	-	-
BH05/0.1-0.2	25/05/2021	0.1 - 0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

**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	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	Pentachlorobenzene	1,2-dibromoethane	Trichlorofluoromethane
EQL	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
AS 2159-2009, Piling - Design and Installation - Soil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.05	0.1	0.5	2
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																	
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																	
EPA Vic IWRG621 Cat B																	
EPA Vic IWRG621 Cat C																	
EPA Vic IWRG621 Fill																	
NEPM 2013 Table 18(6) ESLs for Urban Res, Coarse 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 Res C Soil														10			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														80			

Field ID	Date	Depth	Sample Type	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	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	Hexachlorobenzene	Pentachlorobenzene	1,2-dibromoethane	Trichlorofluoromethane
BH01/0.0-0.1	25/05/2021	0 - 0.1	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.05	<0.1	<0.5	<2
BH01/0.2-0.3	25/05/2021	0.2 - 0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.1-0.2	25/05/2021	0.1 - 0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

**Table 01
 Chemical Testing Results
 Soil**



		Chlorinated Hydrocarbons																																		
		1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloroethane	1,2-dichloroethane	1,2-dichloroethene [trans]	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Benzal Chloride	Benzotrichloride	Benzyl chloride	Bromochloromethane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroform	cis-1,2-dichloroethane	cis-1,3-dichloropropane	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Trichloroethane	Tetrachloroethane	trans-1,3-dichloropropane	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	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	1		
AS 2159-2009, Piling - Design and Installation - Soil																																				
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																																				
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																																				
EPA Vic IWRG621 Cat B																																				
EPA Vic IWRG621 Cat C																																				
EPA Vic IWRG621 FIII																																				
NEPM 2013 Table 18(6) ESLs for Urban Res. Coarse 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	Sample Type	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<1		
BH01/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BH01/0.2-0.3	25/05/2021	0.2 - 0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.1-0.2	25/05/2021	0.1 - 0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

Table 01
Chemical Testing Results
Soil



		Phenols																			
		2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dibromophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dibromophenol	2-Chlorophenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Creosol Total	Pentachlorophenol	Phenol	Phenols [Total Halogenated]	Phenols [Total Non Halogenated]
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	30	0.5	0.5	0.5	10	30	0.5	0.5	1	0.5	0.5	0.5	30
AS 2159-2009, Piling - Design and Installation - Soil																					
NEPM Amendment 2013 EIL (urban residential/public open space) - aged																					
NEPM Amendment 2013 EIL (urban residential/public open space) - fresh																					
EPA Vic IWRG621 Cat B																					
EPA Vic IWRG621 Cat C																					
EPA Vic IWRG621 Fil																					
NEPM 2013 Table 18(6) ESLs for Urban Res, Coarse 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	Sample Type	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<30	<0.5	<0.5	<10	<30	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<30
BH01/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH01/0.2-0.3	25/05/2021	0.2 - 0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH03/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.0-0.1	25/05/2021	0 - 0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05/0.1-0.2	25/05/2021	0.1 - 0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Client: Port Phillip City Council
 Address: 351 St Kilda Road, St Kilda
 Job Number: 2101228

**Table 01
 Chemical Testing Results
 Soil**



	Herbicides		PCBs								Inorganics					
	Dinoseb	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	% Moisture Content	Cyanide Total	Fluoride	Lanthanum	pH (Lab)		
	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	10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	5	100	5	0.1		
AS 2159-2009, Piling - Design and Installation - Soil														55-14		
NEM Amendment 2013 EIL (urban residential/public open space) - aged																
NEM Amendment 2013 EIL (urban residential/public open space) - fresh																
EPA Vic IWRG621 Cat B											10,000	40,000		4-9		
EPA Vic IWRG621 Cat C											2,500	10,000		4-9		
EPA Vic IWRG621 Fill								2			50	450		4-9		
NEM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																
NEM 2013 Table 1A(1) H/Ls Res A Soil									1							
NEM 2013 Table 1A(1) H/Ls Res B Soil									1							
NEM 2013 Table 1A(1) H/Ls Res C Soil									1							
NEM 2013 Table 1A(1) H/Ls Comm/Ind D Soil									7							
Field ID	Date	Depth	Sample Type	<10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14	<5	<100	-	7.6
BH01/0.0-0.1	25/05/2021	0-0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	47
BH01/0.2-0.3	25/05/2021	0.2-0.3	Normal	-	-	-	-	-	-	-	-	-	-	-	-	8
BH02/0.0-0.1	25/05/2021	0-0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	7
BH03/0.0-0.1	25/05/2021	0-0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	6
BH04/0.0-0.1	25/05/2021	0-0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	10
BH05/0.0-0.1	25/05/2021	0-0.1	Normal	-	-	-	-	-	-	-	-	-	-	-	-	14
BH05/0.1-0.2	25/05/2021	0.1-0.2	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-

Attachment 3: 351 St Kilda Rd, St Kilda - contamination assessment

Client: Port Phillip City Council
Address: 351 St Kilda Road, St Kilda

Table 02
Chemical Testing Results
QA/QC Samples
(Duplicate and Split Samples)
Soil

Job Number: 0

	Lab Report Number	21-26926		21-26926		21-26926		797926	
		Field ID		Field ID		Field ID		Field ID	
		BPH4/010-0.1		210525-S-002		BPH4/010-0.1A		BPH4/010-0.1A	
	Matrix Type	soil		soil		soil		soil	
	Date	25/05/2021		25/05/2021		25/05/2021		25/05/2021	
	Unit	EQ1			RPD				RPD
Metals									
Aluminium	mg/kg	5	4,100	4,800	16	4,100	-	-	-
Antimony	mg/kg	5	<5	<5	0	<5	<50	0	0
Arsenic	mg/kg	2	<5	6	18	<5	6.2	21	21
Barium	mg/kg	5	60	83	32	60	68	12	12
Beryllium	mg/kg	2	<5	<5	0	<5	<2	0	0
Boron	mg/kg	10	<50	<50	0	<50	12	18	18
Cadmium	mg/kg	0.2	0.3	0.2	40	0.3	<0.4	0	0
Chromium (III+VI)	mg/kg	5	9	11	20	9	12	29	29
Cobalt	mg/kg	5	<5	<5	0	<5	<5	0	0
Copper	mg/kg	5	27	28	4	27	31	14	14
Iron	mg/kg	10	6,900	8,000	15	6,900	-	-	-
Lead	mg/kg	5	180	170	6	180	210	15	15
Manganese	mg/kg	5	82	97	17	82	110	29	29
Mercury	mg/kg	0.05	0.72	0.91	23	0.72	0.9	22	22
Molybdenum	mg/kg	5	<5	<5	0	<5	<5	0	0
Nickel	mg/kg	5	10	12	18	10	14	33	33
Selenium	mg/kg	2	<3	<3	0	<3	<2	0	0
Silver	mg/kg	2	<5	<5	0	<5	<2	0	0
Tin	mg/kg	5	5	5	0	5	<50	0	0
Vanadium	mg/kg	5	15	18	18	15	17	12	12
Zinc	mg/kg	5	230	220	4	230	310	30	30
PAH									
Acenaphthene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.5	0	0
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.5	0	0
Anthracene	mg/kg	0.1	0.2	<0.1	30	0.2	<0.5	0	0
Benzo(a)anthracene	mg/kg	0.1	0.8	0.7	13	0.8	0.6	29	29
Benzo(a)pyrene	mg/kg	0.1	1.0	0.8	22	1.0	0.7	35	35
Benzo(b)fluoranthene	mg/kg	0.1	0.8	0.7	13	0.8	-	-	-
Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	-	<0.5	-	-
Benzo(g,h,i)perylene	mg/kg	0.1	0.7	0.7	0	0.7	<0.5	33	33
Benzo(k)fluoranthene	mg/kg	0.1	0.7	0.7	0	0.7	0.6	15	15
Chrysene	mg/kg	0.1	0.9	0.7	25	0.9	1.0	11	11
Dibenz(a,h)anthracene	mg/kg	0.1	0.1	0.1	0	0.1	<0.5	0	0
Fluoranthene	mg/kg	0.1	1.7	1.2	34	1.7	1.3	27	27
Fluorene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.5	0	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.7	0.7	0	0.7	<0.5	33	33
Naphthalene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.5	0	0
Phenanthrene	mg/kg	0.1	0.8	0.4	37	0.8	<0.5	46	46
Pyrene	mg/kg	0.1	1.6	1.2	29	1.6	1.4	13	13
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.1	1.4	1.2	15	1.4	1.1	24	24
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.2	1.4	1.2	15	1.4	1.4	0	0
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.1	1.4	1.2	15	1.4	0.8	33	33
PAHs (Sum of total)	mg/kg	0.1	10	7.9	23	10	5.6	56	56
TPH									
C6-C9	mg/kg	20	<20	-	-	<20	-	-	-
C10-C14	mg/kg	20	<20	-	-	<20	-	-	-
C15-C28	mg/kg	50	71	-	-	71	-	-	-
C29-C36	mg/kg	50	130	-	-	110	-	-	-
C10-C36 (Sum of total)	mg/kg	50	180	-	-	180	-	-	-
TRH									
C10-C16 (F2)	mg/kg	20	<20	-	-	<20	-	-	-
C10-C16 (F2 minus Naphthalene)	mg/kg	20	<20	-	-	<20	-	-	-
C16-C34 (F3)	mg/kg	50	150	-	-	150	-	-	-
C34-C40 (F4)	mg/kg	50	<50	-	-	<50	-	-	-
C6-C10 (F1 minus BTEX)	mg/kg	20	<20	-	-	<20	-	-	-
C10-C40 (Sum of total)	mg/kg	50	150	-	-	150	-	-	-
C6-C10 (F1)	mg/kg	20	<20	-	-	<20	-	-	-
Inorganics									
Lanthanum	mg/kg	5	6	6	0	6	-	-	-
Moisture Content (dried @ 103°C)	%	1	-	-	-	-	8.8	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQ1.

**Elevated RPDs are highlighted as per QA/QC Profile settings (Acceptable RPDs for each EQ1 multiplier range are: 50 (1 - 10 x EQ1); 50 (10 - 30 x EQ1); 50 (> 30 x EQ1))

***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

APPENDIX F NATA LABORATORY CERTIFICATES OF ANALYSIS



Chain of Custody Form

Client City of Port Phillip		Job number	2101228
Project Due Diligence		Laboratory	ALS Water Resources Group
Location 351 St Kilda Road, St Kilda		Quote number	2018-085A LTP 1907
		Project Manager	A.Mellett
		Sampled by	S.Tomkinson/L.Stovell

Turnaround time 24hr 48hr 72hr Standard Comments:

From	Company	Date	Received by	Company
S.Tomkinson	Beveridge Williams	25/05/2021		

ALU 
BEV WILL
 BEWILL 21-26926
 MEL-C-17 Due Date: 31/05/2021

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

Notes
 Matrix: S = Soil, GW = Groundwater, W = Water, R = Rinseate 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 S21 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			2101228								
Sample ID	Date sampled	Matrix	No. of containers	Testing required											
				A-S-BEV-W5	Heavy Metals	PAH	TRH	OCP	OPP	pH	CEC	ASLP Heavy Metals	ASLP PAH		
BH01/0.0-0.1	25/05/2021	S	1	X											
BH01/0.2-0.3	25/05/2021	S	1		X	X									
BH01/0.4-0.5	25/05/2021	S	1												
BH01/0.8-0.9	25/05/2021	S	1												
BH01/1.0-1.1	25/05/2021	S	1												
BH02/0.0-0.1	25/05/2021	S	1		X	X	X								
BH02/0.8-0.9	25/05/2021	S	1												
BH03/0.0-0.1	25/05/2021	S	1		X	X	X								
BH03/0.1-0.2	25/05/2021	S	1												
BH03/0.5-0.6	25/05/2021	S	1												
BH03/0.8-0.9	25/05/2021	S	1												
BH03/0.9-1.0	25/05/2021	S	1												
BH04/0.0-0.1	25/05/2021	S	1		X	X	X								
BH04/0.3-0.4	25/05/2021	S	1												
BH04/0.6-0.7	25/05/2021	S	1												
BH04/0.9-1.0	25/05/2021	S	1												
BH05/0.0-0.1	25/05/2021	S	1		X	X	X								
BH05/0.1-0.2	25/05/2021	S	1		X	X									
BH05/0.5-0.6	25/05/2021	S	1												
BH05/0.6-0.7	25/05/2021	S	1												
BH05/0.8-0.9	25/05/2021	S	1												

Beveridge Williams				Job Number			2101228								
Sample ID	Date sampled	Matrix	No. of containers	Testing required											
				A-S-BEV-WS	Heavy Metals	PAH	TRH	DCP	DPP	pH	CEC	ASLP Heavy Metals	ASLP PAH		
BH05/1.0-1.1	25/05/2011	S	1												
BH02/0.5-0.6	25/05/2011	S	1												
210525-S-D01	25/05/2011	S	1												
210525-S-D02	25/05/2011	S	1		X	X									
210525-S-RB01	25/05/2011	R	1												
210525-S-RB02	25/05/2011	R	1												



CERTIFICATE OF ANALYSIS

Batch No:	21-26926	<i>Page</i>	Page 1 of 32
<i>Final Report</i>	898204	<i>Laboratory</i>	Scoresby Laboratory
<i>Client:</i>	Beveridge Williams & Co Pty Ltd	<i>Address</i>	Caribbean Business Park, 22 Dalmore Drive, Scoresby, VIC 3179
<i>Contact:</i>	Andrew Mellett	<i>Phone</i>	
<i>Address:</i>	PO Box 61 MALVERN VIC 3144 AUSTRALIA	<i>Fax</i>	
<i>Client Program Ref:</i>	2101228	<i>Date Sampled:</i>	
<i>ALS Program Ref:</i>	BEVWILL	<i>Date Samples Received:</i>	26-May-2021
<i>PO No:</i>	Not Available	<i>Date Issued:</i>	01-Jun-2021

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>	<i>Analysis</i>	<i>Method</i>	<i>Laboratory</i>
BTEXN	WP074	Scoresby	CHC	WP084	Scoresby	Cyanide	WK026SF	Scoresby
Total Fluoride	QWI-EN.WK040T	Scoresby	HVOL	WP074	Scoresby	MAH	WP125 & WP074	Scoresby
Moisture	WA055	Scoresby	MS Total Metals	WG020B	Scoresby	OCP	WP068A	Scoresby
PAH	WP075B	Scoresby	PCB	WP066	Scoresby	pH	EA002	Scoresby
Phenols(Halo)	WP075A	Scoresby	Phenols(NonHalo)	WP075A	Scoresby	OCP Sum	WP068A	Scoresby
Total Cr 6+ DA	EG048G	Scoresby	TRH F2	# WP071	Scoresby	TRH & TPH (>C10)	WP071	Scoresby
TRH (C6-C10) & F1	WP074 (F1 not NATA)	Scoresby						

Final Report



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

This document shall not be reproduced, except in full.

Signatories

Legionella species refers to Legionella species other than Legionella pneumophila



<i>Name</i>	<i>Title</i>	<i>Name</i>	<i>Title</i>
Chatura Perera	Team Leader Nutrients	Hoa Nguyen	Analyst
Hao Zhang	Team Leader Organics	Joseph De Alwis	Analyst
John Earl	Team Leader Metals	Kosta Christopoulos	Deputy Team Leader Organics

Page: **Page 3 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.
 CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

				Sample No.	7020373	7020374	7020378	7020380	7020385	7020389
				Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
				Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
BTEXN	Benzene	71-43-2	<0.5 mg/kg	<0.5						
BTEXN	Toluene	108-88-3	<0.5 mg/kg	<0.5						
BTEXN	Ethyl Benzene	100-41-4	<0.5 mg/kg	<0.5						
BTEXN	Xylene - m&p	108-38-3 /	<1 mg/kg	<1						
BTEXN	Xylene - O	95-47-6	<0.5 mg/kg	<0.5						
BTEXN	Total Xylenes	1330-20-7	<1 mg/kg	<1						
BTEXN	BTEX (Sum)	BTEX	<1 mg/kg	<1						
Analysis	Analyte	CAS #	LOR							
CHC	1,2,3,4-Tetrachlorobenzene	634-66-2	<0.1 mg/kg	<0.1						
CHC	1,2,3,5-Tetrachlorobenzene	634-90-2	<0.1 mg/kg	<0.1						
CHC	1,2,3-Trichlorobenzene	87-61-6	<0.1 mg/kg	<0.1						
CHC	1,2,4,5-Tetrachlorobenzene	95-94-3	<0.1 mg/kg	<0.1						
CHC	1,2,4-Trichlorobenzene	120-82-1	<0.1 mg/kg	<0.1						
CHC	1,2-Dichlorobenzene	95-50-1	<0.1 mg/kg	<0.1						
CHC	1,3,5-Trichlorobenzene	108-70-3	<0.1 mg/kg	<0.1						
CHC	1,3-Dichlorobenzene	541-73-1	<0.1 mg/kg	<0.1						
CHC	1,4-Dichlorobenzene	106-46-7	<0.1 mg/kg	<0.1						
CHC	2-Chloronaphthalene	91-58-7	<0.1 mg/kg	<0.1						
CHC	Benzal Chloride	98-87-3	<0.1 mg/kg	<0.1						
CHC	Benzotrichloride	98-07-7	<0.1 mg/kg	<0.1						
CHC	Benzylchloride	100-44-7	<0.1 mg/kg	<0.1						
CHC	Hexachloroethane	67-72-1	<0.1 mg/kg	<0.1						
CHC	Hexachlorobutadiene	87-68-3	<0.1 mg/kg	<0.1						
CHC	Hexachlorocyclopentadiene	77-47-4	<0.1 mg/kg	<0.1						
CHC	Pentachlorobenzene	608-93-5	<0.1 mg/kg	<0.1						
Analysis	Analyte	CAS #	LOR							
HVOL	1,1,1,2-Tetrachloroethane	630-20-6	<0.5 mg/kg	<0.5						

Samples not collected by ALS and are tested as received.

Samples are tested within holding time unless otherwise

blank space indicates no test performed. Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

M524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Estimated results are based on raw data.

Page: **Page 4 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



				Sample No.	7020373	7020374	7020378	7020380	7020385	7020389
				Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
				Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
HVOL	1,1,2,2-Tetrachloroethane	79-34-5	<0.5	mg/kg	<0.5					
HVOL	1,1-Dichloroethane	75-34-3	<0.5	mg/kg	<0.5					
HVOL	1,1-Dichloroethene	75-35-4	<0.5	mg/kg	<0.5					
HVOL	1,1-Dichloropropene	563-58-6	<0.5	mg/kg	<0.5					
HVOL	1,2,3-Trichloropropane	96-18-4	<0.5	mg/kg	<0.5					
HVOL	1,2-Dibromo-3-Chloropropane	96-12-8	<0.5	mg/kg	<0.5					
HVOL	1,2-Dichloroethene [cis]	540-59-0(cis)	<0.5	mg/kg	<0.5					
HVOL	1,2-Dichloroethene [trans]	540-59-0(trans)	<0.5	mg/kg	<0.5					
HVOL	1,2-Dichloroethane	107-06-2	<0.5	mg/kg	<0.5					
HVOL	1,2-Dichloropropane	78-87-5	<0.5	mg/kg	<0.5					
HVOL	1,3-Dichloropropane	142-28-9	<0.5	mg/kg	<0.5					
HVOL	1,3-Dichloropropene [cis]	10061-01-5	<0.5	mg/kg	<0.5					
HVOL	1,3-Dichloropropene [trans]	10061-02-6	<0.5	mg/kg	<0.5					
HVOL	2,2-Dichloropropane	594-20-7	<0.5	mg/kg	<0.5					
HVOL	2-Chlorotoluene	95-49-8	<0.5	mg/kg	<0.5					
HVOL	4-Chlorotoluene	106-43-4	<0.5	mg/kg	<0.5					
HVOL	Bromochloromethane	74-97-5	<0.5	mg/kg	<0.5					
HVOL	Bromodichloromethane	75-27-4	<0.5	mg/kg	<0.5					
HVOL	Bromobenzene	108-86-1	<0.5	mg/kg	<0.5					
HVOL	Bromoform (Tribromomethane)	75-25-2	<0.5	mg/kg	<0.5					
HVOL	Carbon Tetrachloride	56-23-5	<0.5	mg/kg	<0.5					
HVOL	Chloroform (Trichloromethane)	67-66-3	<0.5	mg/kg	<0.5					
HVOL	Chlorobenzene	108-90-7	<0.5	mg/kg	<0.5					
HVOL	Dibromochloromethane	124-48-1	<0.5	mg/kg	<0.5					
HVOL	Dibromomethane	74-95-3	<0.5	mg/kg	<0.5					
HVOL	1,2-Dibromoethane	106-93-4	<0.5	mg/kg	<0.5					
HVOL	Dichloromethane	75-09-2	<1	mg/kg	<1					
HVOL	Trichlorofluoromethane (CFC11)	75-69-4	<2	mg/kg	<2					
HVOL	Tetrachloroethene	127-18-4	<0.5	mg/kg	<0.5					
HVOL	Vinyl Chloride (Monomer)	75-01-4	<1	mg/kg	<1					
HVOL	1,1,1-Trichloroethane	71-55-6	<0.5	mg/kg	<0.5					

Samples not collected by ALS and are tested as received.

Samples are tested within holding time unless otherwise

blank space indicates no test performed. Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

M524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.

Page: **Page 5 of 52**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



				Sample No.	7020373	7020374	7020378	7020380	7020385	7020389
				Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
				Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
HVOL	1,1,2-Trichloroethane	79-00-5	<0.5	mg/kg	<0.5					
HVOL	Trichloroethene	79-01-6	<0.5	mg/kg	<0.5					
MAH	Styrene	100-42-5	<0.5	mg/kg	<0.5					
MAH	Cumene	98-82-8	<0.5	mg/kg	<0.5					
MAH	1,2,4-Trimethylbenzene	95-63-6	<0.5	mg/kg	<0.5					
OCP	BHC (alpha isomer)	319-84-6	<0.05	mg/kg	<0.05					
OCP	a-Endosulphan	959-98-8	<0.05	mg/kg	<0.05					
OCP	Aldrin	309-00-2	<0.05	mg/kg	<0.05					
OCP	BHC (beta isomer)	319-85-7	<0.05	mg/kg	<0.05					
OCP	b-Endosulphan	33213-65-9	<0.05	mg/kg	<0.05					
OCP	Chlordane	57-74-9	<0.05	mg/kg	<0.05					
OCP	cis-Chlordane	5103-71-9	<0.05	mg/kg	<0.05					
OCP	trans-Chlordane	5103-74-2	<0.05	mg/kg	<0.05					
OCP	BHC (delta isomer)	319-86-8	<0.05	mg/kg	<0.05					
OCP	DDD	72-54-8	<0.05	mg/kg	<0.05					
OCP	DDE	72-55-9	<0.05	mg/kg	<0.05					
OCP	DDT	50-29-3	<0.05	mg/kg	<0.05					
OCP	Dieldrin	60-57-1	<0.05	mg/kg	<0.05					
OCP	Sum of alpha-, beta- and Endosulphan	115-29-7	<0.05	mg/kg	<0.05					
OCP	Endosulfan Sulfate	1031-07-8	<0.05	mg/kg	<0.05					
OCP	Endrin	72-20-8	<0.05	mg/kg	<0.05					
OCP	Endrin Aldehyde	7421-93-4	<0.05	mg/kg	<0.05					
OCP	Endrin Ketone	53494-70-5	<0.05	mg/kg	<0.05					
OCP	Hexachlorobenzene	118-74-1	<0.05	mg/kg	<0.05					
OCP	Heptachlor Epoxide	1024-57-3	<0.05	mg/kg	<0.05					
OCP	Heptachlor	76-44-8	<0.05	mg/kg	<0.05					
OCP	BHC (gamma isomer) [Lindane]	58-89-9	<0.05	mg/kg	<0.05					
OCP	Methoxychlor	72-43-5	<0.05	mg/kg	<0.05					
OCP	Oxychlordane	27304-13-8	<0.05	mg/kg	<0.05					

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Page: **Page 6 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



				Sample No.	7020373	7020374	7020378	7020380	7020385	7020389
				Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
				Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
OCP	Sum of DDD, DDE and DDT	DDT+DDE+DD	<0.05	mg/kg	<0.05					
OCP	Sum of Aldrin and Dieldrin	309-00-2 +	<0.05	mg/kg	<0.05					
OCP Sum	Sum of Other Organochlorine Pesticides	EPAvic_otherO	<0.05	mg/kg	<0.05					
Analysis	Analyte	CAS #	LOR							
PAH	Acenaphthene	83-32-9	<0.1	mg/kg	<0.1	<0.1	<0.2 LORR	<0.1	<0.1	<0.2 LORR
PAH	Acenaphthylene	208-96-8	<0.1	mg/kg	<0.1	<0.1	0.3	<0.1	<0.1	<0.2 LORR
PAH	Anthracene	120-12-7	<0.1	mg/kg	<0.1	<0.1	0.4	<0.1	0.2	<0.2 LORR
PAH	Benz(a)anthracene	56-55-3	<0.1	mg/kg	0.5	0.2	1.6	0.3	0.8	<0.2 LORR
PAH	Benzo(a)pyrene	50-32-8	<0.1	mg/kg	0.5	0.2	1.7	0.4	1.0	<0.2 LORR
PAH	Benzo(b)fluoranthene	205-99-2	<0.1	mg/kg	0.4	0.2	1.3	0.3	0.8	<0.2 LORR
PAH	Benzo(g,h,i)perylene	191-24-2	<0.1	mg/kg	0.4	0.2	1.5	0.3	0.7	<0.2 LORR
PAH	Benzo(k)fluoranthene	207-08-9	<0.1	mg/kg	0.4	0.2	1.2	0.3	0.7	<0.2 LORR
PAH	Chrysene	218-01-9	<0.1	mg/kg	0.4	0.2	1.3	0.3	0.9	<0.2 LORR
PAH	Dibenz(a,h)anthracene	53-70-3	<0.1	mg/kg	<0.1	<0.1	0.4	<0.1	0.1	<0.2 LORR
PAH	Fluoranthene	206-44-0	<0.1	mg/kg	0.9	0.3	2.9	0.6	1.7	<0.2 LORR
PAH	Fluorene	86-73-7	<0.1	mg/kg	<0.1	<0.1	<0.2 LORR	<0.1	<0.1	<0.2 LORR
PAH	Indeno(1,2,3-cd)pyrene	193-39-5	<0.1	mg/kg	0.4	0.1	1.1	0.3	0.7	<0.2 LORR
PAH	Naphthalene	91-20-3	<0.1	mg/kg	<0.1	<0.1	<0.2 LORR	<0.1	<0.1	<0.2 LORR
PAH	Phenanthrene	85-01-8	<0.1	mg/kg	0.2	<0.1	1.5	0.2	0.8	<0.2 LORR
PAH	Pyrene	129-00-0	<0.1	mg/kg	0.9	0.3	3.0	0.6	1.6	<0.2 LORR
PAH	Total PAH	TOTALPAH	<0.1	mg/kg	5.0	1.9	18	3.6	10	<0.2 LORR
PAH	BaP TEQ (zero)	BaP_TEQ_0xE	<0.1	mg/kg	0.7	0.3	2.6	0.5	1.4	<0.1
PAH	BaP TEQ (half LOR)	BaP_TEQ_0.5x	<0.1	mg/kg	0.7	0.3	2.6	0.6	1.4	0.2
PAH	BaP TEQ (LOR)	BaP_TEQ_1.0x	0.2	mg/kg	0.8	0.4	2.6	0.6	1.4	0.5
Analysis	Analyte	CAS #	LOR							
PCB	Aroclor 1016	12674-11-2	<0.1	mg/kg	<0.1					
PCB	Aroclor 1221	11104-28-2	<0.1	mg/kg	<0.1					
PCB	Aroclor 1232	11141-16-5	<0.1	mg/kg	<0.1					
PCB	Aroclor 1242	53469-21-9	<0.1	mg/kg	<0.1					
PCB	Aroclor 1248	12672-29-6	<0.1	mg/kg	<0.1					
PCB	Aroclor 1254	11097-69-1	<0.1	mg/kg	<0.1					

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Page: **Page 1 of 2**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					7020373	7020374	7020378	7020380	7020385	7020389	
					Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
					Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
					Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PCB	Aroclor 1260	11096-82-5	<0.1	mg/kg	<0.1						
PCB	Total PCBs	1336-36-3	<0.1	mg/kg	<0.1						
Analysis	Analyte	CAS #	LOR								
Phenols(Halo)	4-Chloro-3-Methylphenol	59-50-7	<0.5	mg/kg	<0.5						
Phenols(Halo)	2-Chlorophenol	95-57-8	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,4-Dichlorophenol	120-83-2	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,6-Dichlorophenol	87-65-0	<0.5	mg/kg	<0.5						
Phenols(Halo)	Pentachlorophenol	87-86-5	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,3,4,5-Tetrachlorophenol	4901-51-3	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,3,4,6-Tetrachlorophenol	58-90-2	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,3,5,6-Tetrachlorophenol	935-95-5	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,4,5-Trichlorophenol	95-95-4	<0.5	mg/kg	<0.5						
Phenols(Halo)	2,4,6-Trichlorophenol	88-06-2	<0.5	mg/kg	<0.5						
Phenols(Halo)	Total Phenols (Halogenated)	64743-03-9(Hal)	<0.5	mg/kg	<0.5						
Analysis	Analyte	CAS #	LOR								
Phenols(NonHalo)	Phenol	108-95-2	<0.5	mg/kg	<0.5						
Phenols(NonHalo)	Total Cresols	1319-77-3	<1	mg/kg	<1						
Phenols(NonHalo)	2,4-Dimethylphenol	105-67-9	<0.5	mg/kg	<0.5						
Phenols(NonHalo)	2,4-Dinitrophenol	51-28-5	<30	mg/kg	<30						
Phenols(NonHalo)	2-Methyl-4,6-Dinitrophenol	534-52-1	<10	mg/kg	<10						
Phenols(NonHalo)	2-Nitrophenol	88-75-5	<0.5	mg/kg	<0.5						
Phenols(NonHalo)	4-Nitrophenol	100-02-7	<0.5	mg/kg	<0.5						
Phenols(NonHalo)	2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	<30	mg/kg	<30						
Phenols(NonHalo)	Dinoseb	88-85-7	<10	mg/kg	<10						
Phenols(NonHalo)	Total Phenols (non Halogenated)	64743-03-9(Non)	<30	mg/kg	<30						
Analysis	Analyte	CAS #	LOR								
Moisture	Moisture %	MOISTCONTE	<2	% w/wet w	14						
pH	pH, units	pH_Lab	<0.1	Units	7.6						
Total Fluoride	Total Fluoride, as F	16984-48-8	<100	mg/kg	<100						
Cyanide	Cyanide, as CN	57-12-5	<5	mg/kg	<5						
Total Cr 6+ DA	Hexavalent Chromium (Total) Soil DA	18540-29-9	<1	mg/kg	<1						

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Page: **Page 8 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



				7020373	7020374	7020378	7020380	7020385	7020389	
				Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
				Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
MS Total Metals	Aluminium	7429-90-5	<5 mg/kg		18000	7500	4300	4100	5600	
MS Total Metals	Antimony	7440-36-0	<5 mg/kg	<5	<5	<5	<5	<5	<5	
MS Total Metals	Arsenic	7440-38-2	<5 mg/kg	<5	18	8	<5	<5	<5	
MS Total Metals	Barium	7440-39-3	<5 mg/kg	45	45	76	46	60	38	
MS Total Metals	Beryllium	7440-41-7	<5 mg/kg	<5	<5	<5	<5	<5	<5	
MS Total Metals	Boron	7440-42-8	<10 mg/kg	<10	<10	19	<10	<10	<10	
MS Total Metals	Cadmium	7440-43-9	<0.2 mg/kg	<0.2	<0.2	0.3	0.2	0.3	<0.2	
MS Total Metals	Chromium	7440-47-3	<5 mg/kg	22	67	17	10	9	11	
MS Total Metals	Cobalt	7440-48-4	<5 mg/kg	5	5	<5	<5	<5	<5	
MS Total Metals	Copper	7440-50-8	<5 mg/kg	21	11	57	26	27	26	
MS Total Metals	Iron	7439-89-6	<10 mg/kg		100000	10000	6500	6900	6200	
MS Total Metals	Lanthanum	7439-91-0	<5 mg/kg		47	8	7	6	10	
MS Total Metals	Lead	7439-92-1	<5 mg/kg	100	57	140	140	180	100	
MS Total Metals	Manganese	7439-96-5	<5 mg/kg	110	110	120	71	82	45	
MS Total Metals	Mercury	7439-97-6	<0.05 mg/kg	0.11	0.20	0.60	0.12	0.72	0.06	
MS Total Metals	Molybdenum	7439-98-7	<5 mg/kg	<5	<5	<5	<5	<5	<5	
MS Total Metals	Nickel	7440-02-0	<5 mg/kg	16	13	15	11	10	7	
MS Total Metals	Selenium	7782-49-2	<3 mg/kg	<3	<3	<3	<3	<3	<3	
MS Total Metals	Silver	7440-22-4	<5 mg/kg	<5	<5	<5	<5	<5	<5	
MS Total Metals	Tin	7440-31-5	<5 mg/kg	<5	<5	9	<5	5	<5	
MS Total Metals	Vanadium	7440-62-2	<5 mg/kg	42	150	26	13	15	15	
MS Total Metals	Zinc	7440-66-6	<5 mg/kg	97	30	260	160	230	81	
Analysis	Analyte	CAS #	LOR							
TRH (C6-C10) &	TPHC6-C9	C6-C9	<20 mg/kg	<20	<20	<20	<20	<20	<20	
TRH (C6-C10) &	TRHC6-C10	C6-C10	<20 mg/kg	<20	<20	<20	<20	<20	<20	
TRH (C6-C10) &	TRHC6-C10 minus BTEX	F1-BTEX	<20 mg/kg	<20	<20	<20	<20	<20	<20	
Analysis	Analyte	CAS #	LOR							
TRH F2	TRH>C10-C16 minus Naphthalene	F2-NAPHTHAL	<20 mg/kg	<20	<20	<20	<20	<20	<20	
TRH & TPH	TPH C10-C14	C10-C14	<20 mg/kg	<20	<20	<20	<20	<20	<20	
TRH & TPH	TPH C15-C28	C15-C28	<50 mg/kg	<50	200	93	71	61		

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calculated results are based on raw data

Page: **Page 9 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					7020373	7020374	7020378	7020380	7020385	7020389	
					Client Sample ID	BH01/0.0-0.1	BH01/0.2-0.3	BH02/0.0-0.1	BH03/0.0-0.1	BH04/0.0-0.1	BH05/0.0-0.1
					Sample Date	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21	25/05/21
					Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
TRH & TPH	TPH C29-C36	C29-C36	<50	mg/kg	<50		320	160	110	270	
TRH & TPH	Sum of TPH C10-C36	C10-C36	<50	mg/kg	<50		520	250	180	330	
TRH & TPH	TRH>C10-C16	C10-C16	<20	mg/kg	<20		<20	<20	<20	<20	
TRH & TPH	TRH>C16-C34	C16-C34	<50	mg/kg	<50		420	200	150	240	
TRH & TPH	TRH>C34-C40	C34-C40	<50	mg/kg	<50		130	68	<50	130	
TRH & TPH	Sum of TRH>C10-C40	C10-C40	<50	mg/kg	<50		550	270	150	370	

LORR Limit of Reporting has been raised due to high moisture content, insufficient sample or matrix interference.

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Page: **Page 10 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.
 CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

				Sample No.	7020390	7020397
				Client Sample ID	BH05/0.1-0.2	210525-S-D02
				Sample Date	25/05/21	25/05/21
				Sample Type	SOIL	SOIL
Analysis	Analyte	CAS #	LOR			
PAH	Acenaphthene	83-32-9	<0.1 mg/kg	<0.1	<0.1	<0.1
PAH	Acenaphthylene	208-96-8	<0.1 mg/kg	<0.1	<0.1	<0.1
PAH	Anthracene	120-12-7	<0.1 mg/kg	<0.1	<0.1	<0.1
PAH	Benz(a)anthracene	56-55-3	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Benzo(a)pyrene	50-32-8	<0.1 mg/kg	<0.1	<0.1	0.8
PAH	Benzo(b)fluoranthene	205-99-2	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Benzo(g,h,i)perylene	191-24-2	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Benzo(k)fluoranthene	207-08-9	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Chrysene	218-01-9	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Dibenz(a,h)anthracene	53-70-3	<0.1 mg/kg	<0.1	<0.1	0.1
PAH	Fluoranthene	206-44-0	<0.1 mg/kg	<0.1	<0.1	1.2
PAH	Fluorene	86-73-7	<0.1 mg/kg	<0.1	<0.1	<0.1
PAH	Indeno(1,2,3-cd)pyrene	193-39-5	<0.1 mg/kg	<0.1	<0.1	0.7
PAH	Naphthalene	91-20-3	<0.1 mg/kg	<0.1	<0.1	<0.1
PAH	Phenanthrene	85-01-8	<0.1 mg/kg	<0.1	<0.1	0.4
PAH	Pyrene	129-00-0	<0.1 mg/kg	<0.1	<0.1	1.2
PAH	Total PAH	TOTALPAH	<0.1 mg/kg	<0.1	<0.1	7.9
PAH	BaP TEQ (zero)	BaP_TEQ_0xE	<0.1 mg/kg	<0.1	<0.1	1.2
PAH	BaP TEQ (half LOR)	BaP_TEQ_0.5x	<0.1 mg/kg	0.1	0.1	1.2
PAH	BaP TEQ (LOR)	BaP_TEQ_1.0x	0.2 mg/kg	0.2	0.2	1.2
Analysis	Analyte	CAS #	LOR			
MS Total Metals	Aluminium	7429-90-5	<5 mg/kg	7000	4800	
MS Total Metals	Antimony	7440-36-0	<5 mg/kg	<5	<5	
MS Total Metals	Arsenic	7440-38-2	<5 mg/kg	<5	6	
MS Total Metals	Barium	7440-39-3	<5 mg/kg	24	83	
MS Total Metals	Beryllium	7440-41-7	<5 mg/kg	<5	<5	
MS Total Metals	Boron	7440-42-8	<10 mg/kg	<10	<10	

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calculated results are based on raw data

Page: **Page 11 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					7020390	7020397
					BH05/0.1-0.2	210525-S-D02
					25/05/21	25/05/21
					SOIL	SOIL
					7020390	7020397
					BH05/0.1-0.2	210525-S-D02
					25/05/21	25/05/21
					SOIL	SOIL
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	0.2
MS Total Metals	Chromium	7440-47-3	<5	mg/kg	10	11
MS Total Metals	Cobalt	7440-48-4	<5	mg/kg	<5	<5
MS Total Metals	Copper	7440-50-8	<5	mg/kg	<5	28
MS Total Metals	Iron	7439-89-6	<10	mg/kg	6000	8000
MS Total Metals	Lanthanum	7439-91-0	<5	mg/kg	14	6
MS Total Metals	Lead	7439-92-1	<5	mg/kg	30	170
MS Total Metals	Manganese	7439-96-5	<5	mg/kg	33	97
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	0.91
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	<5	12
MS Total Metals	Selenium	7782-49-2	<3	mg/kg	<3	<3
MS Total Metals	Silver	7440-22-4	<5	mg/kg	<5	<5
MS Total Metals	Tin	7440-31-5	<5	mg/kg	<5	5
MS Total Metals	Vanadium	7440-62-2	<5	mg/kg	18	18
MS Total Metals	Zinc	7440-66-6	<5	mg/kg	26	220

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M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.

Page: **Page 12 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



QUALITY CONTROL - BLANKS

QC Blanks are an 'analyte free' matrix in which all applicable reagents have been added in the same proportion as in standard samples and are an internal monitor for laboratory contamination.

Lab Sample ID	Client Sample ID	Analysis	Analyte	Value	
7024918	QC - Blank	Total Fluoride	Total Fluoride, as F	mg/kg	<100
7025620	QC - Blank	Total Cr 6+ DA	Hexavalent Chromium (Total) Soil DA	mg/kg	<1
Lab Sample ID	Client Sample ID	Analysis	Analyte	Value	
7022795	QC - Blank	MS Total Metals	Aluminium	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Antimony	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Arsenic	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Barium	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Beryllium	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Boron	mg/kg	<10
7022795	QC - Blank	MS Total Metals	Cadmium	mg/kg	<0.2
7022795	QC - Blank	MS Total Metals	Chromium	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Cobalt	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Copper	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Iron	mg/kg	<10
7022795	QC - Blank	MS Total Metals	Lanthanum	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Lead	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Manganese	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Mercury	mg/kg	<0.05
7022795	QC - Blank	MS Total Metals	Molybdenum	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Nickel	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Selenium	mg/kg	<3
7022795	QC - Blank	MS Total Metals	Silver	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Tin	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Vanadium	mg/kg	<5
7022795	QC - Blank	MS Total Metals	Zinc	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Aluminium	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Antimony	mg/kg	<5

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Page: **Page 13 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7025456	QC - Blank	MS Total Metals	Arsenic	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Barium	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Beryllium	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Boron	mg/kg	<10
7025456	QC - Blank	MS Total Metals	Cadmium	mg/kg	<0.2
7025456	QC - Blank	MS Total Metals	Chromium	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Cobalt	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Copper	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Iron	mg/kg	<10
7025456	QC - Blank	MS Total Metals	Lanthanum	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Lead	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Manganese	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Mercury	mg/kg	<0.05
7025456	QC - Blank	MS Total Metals	Molybdenum	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Nickel	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Selenium	mg/kg	<3
7025456	QC - Blank	MS Total Metals	Silver	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Tin	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Vanadium	mg/kg	<5
7025456	QC - Blank	MS Total Metals	Zinc	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Aluminium	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Antimony	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Arsenic	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Barium	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Beryllium	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Boron	mg/kg	<10
7027190	QC - Blank	MS Total Metals	Cadmium	mg/kg	<0.2
7027190	QC - Blank	MS Total Metals	Chromium	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Cobalt	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Copper	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Iron	mg/kg	<10
7027190	QC - Blank	MS Total Metals	Lanthanum	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Lead	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Manganese	mg/kg	<5

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Page: **Page 14 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7027190	QC - Blank	MS Total Metals	Mercury	mg/kg	<0.05
7027190	QC - Blank	MS Total Metals	Molybdenum	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Nickel	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Selenium	mg/kg	<3
7027190	QC - Blank	MS Total Metals	Silver	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Tin	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Vanadium	mg/kg	<5
7027190	QC - Blank	MS Total Metals	Zinc	mg/kg	<5
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7024591	QC - Blank	MAH	Styrene	mg/kg	<0.5
7024591	QC - Blank	MAH	Cumene	mg/kg	<0.5
7024591	QC - Blank	MAH	1,2,4-Trimethylbenzene	mg/kg	<0.5
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7023520	QC - Blank	BTEXN	Benzene	mg/kg	<0.5
7023520	QC - Blank	BTEXN	Toluene	mg/kg	<0.5
7023520	QC - Blank	BTEXN	Ethyl Benzene	mg/kg	<0.5
7023520	QC - Blank	BTEXN	Xylene - m&p	mg/kg	<1
7023520	QC - Blank	BTEXN	Xylene - O	mg/kg	<0.5
7023520	QC - Blank	BTEXN	Total Xylenes	mg/kg	<1
7023520	QC - Blank	BTEXN	BTEX (Sum)	mg/kg	<1
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7023535	QC - Blank	TRH (C6-C10) & F1	TPHC6-C9	mg/kg	<20
7023535	QC - Blank	TRH (C6-C10) & F1	TRHC6-C10	mg/kg	<20
7023535	QC - Blank	TRH (C6-C10) & F1	TRHC6-C10 minus BTEX	mg/kg	<20
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7023541	QC - Blank	TRH & TPH (>C10)	TPH C10-C14	mg/kg	<20
7023541	QC - Blank	TRH & TPH (>C10)	TPH C15-C28	mg/kg	<50
7023541	QC - Blank	TRH & TPH (>C10)	TPH C29-C36	mg/kg	<50
7023541	QC - Blank	TRH & TPH (>C10)	Sum of TPH C10-C36	mg/kg	<50
7023541	QC - Blank	TRH & TPH (>C10)	TRH>C10-C16	mg/kg	<20
7023541	QC - Blank	TRH & TPH (>C10)	TRH>C16-C34	mg/kg	<50
7023541	QC - Blank	TRH & TPH (>C10)	TRH>C34-C40	mg/kg	<50
7023541	QC - Blank	TRH & TPH (>C10)	Sum of TRH>C10-C40	mg/kg	<50
Lab Sample ID	Client Sample ID	Analysis	Analyte		

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Page: **Page 15 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7022680	QC - Blank	PAH	Acenaphthene	mg/kg	<0.1
7022680	QC - Blank	PAH	Acenaphthylene	mg/kg	<0.1
7022680	QC - Blank	PAH	Anthracene	mg/kg	<0.1
7022680	QC - Blank	PAH	Benz(a)anthracene	mg/kg	<0.1
7022680	QC - Blank	PAH	Benzo(a)pyrene	mg/kg	<0.1
7022680	QC - Blank	PAH	Benzo(b)fluoranthene	mg/kg	<0.1
7022680	QC - Blank	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1
7022680	QC - Blank	PAH	Benzo(k)fluoranthene	mg/kg	<0.1
7022680	QC - Blank	PAH	Chrysene	mg/kg	<0.1
7022680	QC - Blank	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1
7022680	QC - Blank	PAH	Fluoranthene	mg/kg	<0.1
7022680	QC - Blank	PAH	Fluorene	mg/kg	<0.1
7022680	QC - Blank	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1
7022680	QC - Blank	PAH	Naphthalene	mg/kg	<0.1
7022680	QC - Blank	PAH	Phenanthrene	mg/kg	<0.1
7022680	QC - Blank	PAH	Pyrene	mg/kg	<0.1
7022680	QC - Blank	PAH	Total PAH	mg/kg	<0.1
7022680	QC - Blank	PAH	BaP TEQ (zero)	mg/kg	<0.1
7022680	QC - Blank	PAH	BaP TEQ (half LOR)	mg/kg	0.1
7022680	QC - Blank	PAH	BaP TEQ (LOR)	mg/kg	0.2
7022689	QC - Blank	PAH	Acenaphthene	mg/kg	<0.1
7022689	QC - Blank	PAH	Acenaphthylene	mg/kg	<0.1
7022689	QC - Blank	PAH	Anthracene	mg/kg	<0.1
7022689	QC - Blank	PAH	Benz(a)anthracene	mg/kg	<0.1
7022689	QC - Blank	PAH	Benzo(a)pyrene	mg/kg	<0.1
7022689	QC - Blank	PAH	Benzo(b)fluoranthene	mg/kg	<0.1
7022689	QC - Blank	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1
7022689	QC - Blank	PAH	Benzo(k)fluoranthene	mg/kg	<0.1
7022689	QC - Blank	PAH	Chrysene	mg/kg	<0.1
7022689	QC - Blank	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1
7022689	QC - Blank	PAH	Fluoranthene	mg/kg	<0.1
7022689	QC - Blank	PAH	Fluorene	mg/kg	<0.1
7022689	QC - Blank	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1
7022689	QC - Blank	PAH	Naphthalene	mg/kg	<0.1

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Page: **Page 16 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7022689	QC - Blank	PAH	Phenanthrene	mg/kg	<0.1
7022689	QC - Blank	PAH	Pyrene	mg/kg	<0.1
7022689	QC - Blank	PAH	Total PAH	mg/kg	<0.1
7022689	QC - Blank	PAH	BaP TEQ (zero)	mg/kg	<0.1
7022689	QC - Blank	PAH	BaP TEQ (half LOR)	mg/kg	0.1
7022689	QC - Blank	PAH	BaP TEQ (LOR)	mg/kg	0.2
7025116	QC - Blank	PAH	Acenaphthene	mg/kg	<0.1
7025116	QC - Blank	PAH	Acenaphthylene	mg/kg	<0.1
7025116	QC - Blank	PAH	Anthracene	mg/kg	<0.1
7025116	QC - Blank	PAH	Benz(a)anthracene	mg/kg	<0.1
7025116	QC - Blank	PAH	Benzo(a)pyrene	mg/kg	<0.1
7025116	QC - Blank	PAH	Benzo(b)fluoranthene	mg/kg	<0.1
7025116	QC - Blank	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1
7025116	QC - Blank	PAH	Benzo(k)fluoranthene	mg/kg	<0.1
7025116	QC - Blank	PAH	Chrysene	mg/kg	<0.1
7025116	QC - Blank	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1
7025116	QC - Blank	PAH	Fluoranthene	mg/kg	<0.1
7025116	QC - Blank	PAH	Fluorene	mg/kg	<0.1
7025116	QC - Blank	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1
7025116	QC - Blank	PAH	Naphthalene	mg/kg	<0.1
7025116	QC - Blank	PAH	Phenanthrene	mg/kg	<0.1
7025116	QC - Blank	PAH	Pyrene	mg/kg	<0.1
7025116	QC - Blank	PAH	Total PAH	mg/kg	<0.1
7025116	QC - Blank	PAH	BaP TEQ (zero)	mg/kg	<0.1
7025116	QC - Blank	PAH	BaP TEQ (half LOR)	mg/kg	0.1
7025116	QC - Blank	PAH	BaP TEQ (LOR)	mg/kg	0.2
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7022686	QC - Blank	OCP	BHC (alpha isomer)	mg/kg	<0.05
7022686	QC - Blank	OCP	a-Endosulphan	mg/kg	<0.05
7022686	QC - Blank	OCP	Aldrin	mg/kg	<0.05
7022686	QC - Blank	OCP	BHC (beta isomer)	mg/kg	<0.05
7022686	QC - Blank	OCP	b-Endosulphan	mg/kg	<0.05
7022686	QC - Blank	OCP	Chlordane	mg/kg	<0.05
7022686	QC - Blank	OCP	cis-Chlordane	mg/kg	<0.05

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Page: **Page 17 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7022686	QC - Blank	OCP	trans-Chlordane	mg/kg	<0.05
7022686	QC - Blank	OCP	BHC (delta isomer)	mg/kg	<0.05
7022686	QC - Blank	OCP	DDD	mg/kg	<0.05
7022686	QC - Blank	OCP	DDE	mg/kg	<0.05
7022686	QC - Blank	OCP	DDT	mg/kg	<0.05
7022686	QC - Blank	OCP	Dieldrin	mg/kg	<0.05
7022686	QC - Blank	OCP	Sum of alpha-, beta- and Endosulphan	mg/kg	<0.05
7022686	QC - Blank	OCP	Endosulfan Sulfate	mg/kg	<0.05
7022686	QC - Blank	OCP	Endrin	mg/kg	<0.05
7022686	QC - Blank	OCP	Endrin Aldehyde	mg/kg	<0.05
7022686	QC - Blank	OCP	Endrin Ketone	mg/kg	<0.05
7022686	QC - Blank	OCP	Hexachlorobenzene	mg/kg	<0.05
7022686	QC - Blank	OCP	Heptachlor Epoxide	mg/kg	<0.05
7022686	QC - Blank	OCP	Heptachlor	mg/kg	<0.05
7022686	QC - Blank	OCP	BHC (gamma isomer) [Lindane]	mg/kg	<0.05
7022686	QC - Blank	OCP	Methoxychlor	mg/kg	<0.05
7022686	QC - Blank	OCP	Oxychlordane	mg/kg	<0.05
7022686	QC - Blank	OCP	Sum of DDD, DDE and DDT	mg/kg	<0.05
7022686	QC - Blank	OCP	Sum of Aldrin and Dieldrin	mg/kg	<0.05
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7022692	QC - Blank	PCB	Aroclor 1016	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1221	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1232	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1242	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1248	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1254	mg/kg	<0.1
7022692	QC - Blank	PCB	Aroclor 1260	mg/kg	<0.1
7022692	QC - Blank	PCB	Total PCBs	mg/kg	<0.1
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7022672	QC - Blank	CHC	1,2,3,4-Tetrachlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,2,3,5-Tetrachlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,2,3-Trichlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,2,4,5-Tetrachlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,2,4-Trichlorobenzene	mg/kg	<0.1

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Page: **Page 18 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7022672	QC - Blank	CHC	1,2-Dichlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,3,5-Trichlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,3-Dichlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	1,4-Dichlorobenzene	mg/kg	<0.1
7022672	QC - Blank	CHC	2-Chloronaphthalene	mg/kg	<0.1
7022672	QC - Blank	CHC	Benzal Chloride	mg/kg	<0.1
7022672	QC - Blank	CHC	Benzotrifluoride	mg/kg	<0.1
7022672	QC - Blank	CHC	Benzylchloride	mg/kg	<0.1
7022672	QC - Blank	CHC	Hexachloroethane	mg/kg	<0.1
7022672	QC - Blank	CHC	Hexachlorobutadiene	mg/kg	<0.1
7022672	QC - Blank	CHC	Hexachlorocyclopentadiene	mg/kg	<0.1
7022672	QC - Blank	CHC	Pentachlorobenzene	mg/kg	<0.1
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7022676	QC - Blank	Phenols(Halo)	4-Chloro-3-Methylphenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2-Chlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,4-Dichlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,6-Dichlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	Pentachlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,3,4,5-Tetrachlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,3,4,6-Tetrachlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,3,5,6-Tetrachlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,4,5-Trichlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	2,4,6-Trichlorophenol	mg/kg	<0.5
7022676	QC - Blank	Phenols(Halo)	Total Phenols (Halogenated)	mg/kg	<0.5
Lab Sample ID	Client Sample ID	Analysis	Analyte		
7022674	QC - Blank	Phenols(NonHalo)	Phenol	mg/kg	<0.5
7022674	QC - Blank	Phenols(NonHalo)	Total Cresols	mg/kg	<1
7022674	QC - Blank	Phenols(NonHalo)	2,4-Dimethylphenol	mg/kg	<0.5
7022674	QC - Blank	Phenols(NonHalo)	2,4-Dinitrophenol	mg/kg	<30
7022674	QC - Blank	Phenols(NonHalo)	2-Methyl-4,6-Dinitrophenol	mg/kg	<10
7022674	QC - Blank	Phenols(NonHalo)	2-Nitrophenol	mg/kg	<0.5
7022674	QC - Blank	Phenols(NonHalo)	4-Nitrophenol	mg/kg	<0.5
7022674	QC - Blank	Phenols(NonHalo)	2-Cyclohexyl-4,6-Dinitrophenol	mg/kg	<30
7022674	QC - Blank	Phenols(NonHalo)	Dinoseb	mg/kg	<10

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Page: **Page 19 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



Lab Sample ID	Client Sample ID	Analysis	Analyte	mg/kg	Value
7022674	QC - Blank	Phenols(NonHalo)	Total Phenols (non Halogenated)	mg/kg	<30
7024587	QC - Blank	HVOL	1,1,1,2-Tetrachloroethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,1,2,2-Tetrachloroethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,1-Dichloroethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,1-Dichloroethene	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,1-Dichloropropene	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2,3-Trichloropropane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dibromo-3-Chloropropane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dichloroethene [cis]	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dichloroethene [trans]	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dichloroethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dichloropropane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,3-Dichloropropane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,3-Dichloropropene [cis]	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,3-Dichloropropene [trans]	mg/kg	<0.5
7024587	QC - Blank	HVOL	2,2-Dichloropropane	mg/kg	<0.5
7024587	QC - Blank	HVOL	2-Chlorotoluene	mg/kg	<0.5
7024587	QC - Blank	HVOL	4-Chlorotoluene	mg/kg	<0.5
7024587	QC - Blank	HVOL	Bromochloromethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	Bromodichloromethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	Bromobenzene	mg/kg	<0.5
7024587	QC - Blank	HVOL	Bromoform (Tribromomethane)	mg/kg	<0.5
7024587	QC - Blank	HVOL	Carbon Tetrachloride	mg/kg	<0.5
7024587	QC - Blank	HVOL	Chloroform (Trichloromethane)	mg/kg	<0.5
7024587	QC - Blank	HVOL	Chlorobenzene	mg/kg	<0.5
7024587	QC - Blank	HVOL	Dibromochloromethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	Dibromomethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	1,2-Dibromoethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	Dichloromethane	mg/kg	<1
7024587	QC - Blank	HVOL	Trichlorofluoromethane (CFC11)	mg/kg	<2
7024587	QC - Blank	HVOL	Tetrachloroethene	mg/kg	<0.5
7024587	QC - Blank	HVOL	Vinyl Chloride (Monomer)	mg/kg	<1
7024587	QC - Blank	HVOL	1,1,1-Trichloroethane	mg/kg	<0.5

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M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

skitated results are based on raw data

Page: **Page 20 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Value
7024587	QC - Blank	HVOL	1,1,2-Trichloroethane	mg/kg	<0.5
7024587	QC - Blank	HVOL	Trichloroethene	mg/kg	<0.5

QUALITY CONTROL - DUPLICATES

QC Data for duplicates is calculated on raw 'unrounded' values. Laboratory duplicates are randomly selected samples tested by the laboratory to maintain method precision and provide information on sample homogeneity.

RPD = Relative Percentage Difference for duplicate determinations. RPD's that fall outside the general acceptance criteria will be attributed to non-homogeneity of samples or results of low magnitudes.

Lab Sample ID	Client Sample ID	Analysis	Analyte		Sample Value	Duplicate Value	% RPD
7023276	NCP	Moisture	Moisture %	% w/wet w	5	6	4.1
7024895	NCP	pH	pH, units	Units	9.3	9.3	0.8
7024921	NCP	Total Fluoride	Total Fluoride, as F	mg/kg	310	300	3.2
7025056	NCP	Cyanide	Cyanide, as CN	mg/kg	<5	<5	0
7025625	NCP	Total Cr 6+ DA	Hexavalent Chromium (Total) Soil DA	mg/kg	<1	<1	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022798	NCP	MS Total Metals	Arsenic	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Cadmium	mg/kg	<0.2	<0.2	0
7022798	NCP	MS Total Metals	Copper	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Lead	mg/kg	23	23	2.2
7022798	NCP	MS Total Metals	Mercury	mg/kg	0.05	0.06	18.8
7022798	NCP	MS Total Metals	Molybdenum	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Nickel	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Selenium	mg/kg	<3	<3	0
7022798	NCP	MS Total Metals	Silver	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Tin	mg/kg	<5	<5	0
7022798	NCP	MS Total Metals	Zinc	mg/kg	27	26	3.3
7025457	NCP	MS Total Metals	Aluminium	mg/kg	7900	9100	13.9
7025457	NCP	MS Total Metals	Antimony	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Arsenic	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Barium	mg/kg	53	44	17.8
7025457	NCP	MS Total Metals	Beryllium	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Boron	mg/kg	<10	<10	0

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calculated results are based on raw data

Page: **Page 21 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7025457	NCP	MS Total Metals	Cadmium	mg/kg	<0.2	<0.2	0
7025457	NCP	MS Total Metals	Chromium	mg/kg	14	17	23.7
7025457	NCP	MS Total Metals	Cobalt	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Copper	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Iron	mg/kg	8100	9000	11.4
7025457	NCP	MS Total Metals	Lanthanum	mg/kg	15	15	3.7
7025457	NCP	MS Total Metals	Lead	mg/kg	9	7	20.1
7025457	NCP	MS Total Metals	Mercury	mg/kg	<0.05	<0.05	0
7025457	NCP	MS Total Metals	Molybdenum	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Nickel	mg/kg	7	8	10.0
7025457	NCP	MS Total Metals	Selenium	mg/kg	<3	<3	0
7025457	NCP	MS Total Metals	Silver	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Tin	mg/kg	<5	<5	0
7025457	NCP	MS Total Metals	Vanadium	mg/kg	18	21	15.3
7025457	NCP	MS Total Metals	Zinc	mg/kg	12	11	7.5
7027194	NCP	MS Total Metals	Aluminium	mg/kg	11000	13000	12.6
7027194	NCP	MS Total Metals	Antimony	mg/kg	<5	<5	0
7027194	NCP	MS Total Metals	Barium	mg/kg	73	70	4.2
7027194	NCP	MS Total Metals	Beryllium	mg/kg	<5	<5	0
7027194	NCP	MS Total Metals	Boron	mg/kg	<10	<10	0
7027194	NCP	MS Total Metals	Copper	mg/kg	11	14	24.3
7027194	NCP	MS Total Metals	Iron	mg/kg	18000	21000	18.4
7027194	NCP	MS Total Metals	Lanthanum	mg/kg	24	23	3.9
7027194	NCP	MS Total Metals	Manganese	mg/kg	200	250	21.5
7027194	NCP	MS Total Metals	Mercury	mg/kg	<0.05	<0.05	0
7027194	NCP	MS Total Metals	Molybdenum	mg/kg	<5	<5	0
7027194	NCP	MS Total Metals	Selenium	mg/kg	<3	<3	0
7027194	NCP	MS Total Metals	Silver	mg/kg	<5	<5	0
7027194	NCP	MS Total Metals	Tin	mg/kg	<5	<5	0
7027194	NCP	MS Total Metals	Vanadium	mg/kg	31	34	8.4
7027194	NCP	MS Total Metals	Zinc	mg/kg	58	64	8.5
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7024589	NCP	MAH	Styrene	mg/kg	<0.5	<0.5	0
7024589	NCP	MAH	Cumene	mg/kg	<0.5	<0.5	0

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calculated results are based on raw data

Page: **Page 22 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7024589	NCP	MAH	1,2,4-Trimethylbenzene	mg/kg	<0.5	<0.5	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7023512	BH01/0.0-0.1	BTEXN	Benzene	mg/kg	<0.5	<0.5	0
7023512	BH01/0.0-0.1	BTEXN	Toluene	mg/kg	<0.5	<0.5	0
7023512	BH01/0.0-0.1	BTEXN	Ethyl Benzene	mg/kg	<0.5	<0.5	0
7023512	BH01/0.0-0.1	BTEXN	Xylene - m&p	mg/kg	<1	<1	0
7023512	BH01/0.0-0.1	BTEXN	Xylene - O	mg/kg	<0.5	<0.5	0
7023512	BH01/0.0-0.1	BTEXN	Total Xylenes	mg/kg	<1	<1	0
7023512	BH01/0.0-0.1	BTEXN	BTEX (Sum)	mg/kg	<1	<1	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7023525	BH01/0.0-0.1	TRH (C6-C10) & F1	TPHC6-C9	mg/kg	<20	<20	0
7023525	BH01/0.0-0.1	TRH (C6-C10) & F1	TRHC6-C10	mg/kg	<20	<20	0
7023525	BH01/0.0-0.1	TRH (C6-C10) & F1	TRHC6-C10 minus BTEX	mg/kg	<20	<20	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7023539	NCP	TRH & TPH (>C10)	TPH C10-C14	mg/kg	<20	<20	0
7023539	NCP	TRH & TPH (>C10)	TPH C15-C28	mg/kg	<50	<50	0
7023539	NCP	TRH & TPH (>C10)	TPH C29-C36	mg/kg	<50	<50	0
7023539	NCP	TRH & TPH (>C10)	Sum of TPH C10-C36	mg/kg	<50	<50	0
7023539	NCP	TRH & TPH (>C10)	TRH>C10-C16	mg/kg	<20	<20	0
7023539	NCP	TRH & TPH (>C10)	TRH>C16-C34	mg/kg	<50	<50	0
7023539	NCP	TRH & TPH (>C10)	TRH>C34-C40	mg/kg	<50	<50	0
7023539	NCP	TRH & TPH (>C10)	Sum of TRH>C10-C40	mg/kg	<50	<50	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022678	NCP	PAH	Acenaphthene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Acenaphthylene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Anthracene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Benzo(a)anthracene	mg/kg	0.2	0.2	11.4
7022678	NCP	PAH	Benzo(a)pyrene	mg/kg	0.2	0.2	9.3
7022678	NCP	PAH	Benzo(b)fluoranthene	mg/kg	0.2	0.2	9.5
7022678	NCP	PAH	Benzo(g,h,i)perylene	mg/kg	0.2	0.2	10.2
7022678	NCP	PAH	Benzo(k)fluoranthene	mg/kg	0.2	0.2	11.2
7022678	NCP	PAH	Chrysene	mg/kg	0.2	0.2	11.8
7022678	NCP	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Fluoranthene	mg/kg	0.3	0.2	16.5

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M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Estimated results are based on raw data.

Page: **Page 23 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7022678	NCP	PAH	Fluorene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.1	13.6
7022678	NCP	PAH	Naphthalene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Phenanthrene	mg/kg	<0.1	<0.1	0
7022678	NCP	PAH	Pyrene	mg/kg	0.3	0.3	6.8
7022678	NCP	PAH	Total PAH	mg/kg	1.9	1.8	5.4
7022678	NCP	PAH	BaP TEQ (zero)	mg/kg	0.3	0.3	0.0
7022678	NCP	PAH	BaP TEQ (half LOR)	mg/kg	0.3	0.3	0.0
7022678	NCP	PAH	BaP TEQ (LOR)	mg/kg	0.4	0.4	0.0
7022687	NCP	PAH	Acenaphthene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Acenaphthylene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Anthracene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Benz(a)anthracene	mg/kg	0.3	0.2	33.7
7022687	NCP	PAH	Benzo(a)pyrene	mg/kg	0.3	0.3	13.3
7022687	NCP	PAH	Benzo(b)fluoranthene	mg/kg	0.3	0.2	12.4
7022687	NCP	PAH	Benzo(g,h,i)perylene	mg/kg	0.2	0.2	17.3
7022687	NCP	PAH	Benzo(k)fluoranthene	mg/kg	0.2	0.2	13.0
7022687	NCP	PAH	Chrysene	mg/kg	0.2	0.2	20.4
7022687	NCP	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Fluoranthene	mg/kg	0.6	0.3	51.1
7022687	NCP	PAH	Fluorene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	0.2	0.2	18.4
7022687	NCP	PAH	Naphthalene	mg/kg	<0.1	<0.1	0
7022687	NCP	PAH	Phenanthrene	mg/kg	0.2	<0.1	NA
7022687	NCP	PAH	Pyrene	mg/kg	0.5	0.4	40.5
7022687	NCP	PAH	Total PAH	mg/kg	3.0	2.2	30.8
7022687	NCP	PAH	BaP TEQ (zero)	mg/kg	0.4	0.4	5.1
7022687	NCP	PAH	BaP TEQ (half LOR)	mg/kg	0.5	0.4	4.5
7022687	NCP	PAH	BaP TEQ (LOR)	mg/kg	0.5	0.5	4.0
7025114	NCP	PAH	Acenaphthene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Acenaphthylene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Anthracene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Benz(a)anthracene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Benzo(a)pyrene	mg/kg	<0.1	<0.1	0

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Page: **Page 24 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7025114	NCP	PAH	Benzo(b)fluoranthene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Chrysene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Fluoranthene	mg/kg	0.2	<0.1	NA
7025114	NCP	PAH	Fluorene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Naphthalene	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	Phenanthrene	mg/kg	0.1	<0.1	NA
7025114	NCP	PAH	Pyrene	mg/kg	0.2	<0.1	NA
7025114	NCP	PAH	Total PAH	mg/kg	0.5	<0.1	NA
7025114	NCP	PAH	BaP TEQ (zero)	mg/kg	<0.1	<0.1	0
7025114	NCP	PAH	BaP TEQ (half LOR)	mg/kg	0.1	0.1	0.0
7025114	NCP	PAH	BaP TEQ (LOR)	mg/kg	0.2	0.2	0.0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022682	NCP	OCP	BHC (alpha isomer)	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	a-Endosulphan	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Aldrin	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	BHC (beta isomer)	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	b-Endosulphan	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Chlordane	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	cis-Chlordane	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	trans-Chlordane	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	BHC (delta isomer)	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	DDD	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	DDE	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	DDT	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Dieldrin	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Sum of alpha-, beta- and Endosulphan	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Endosulfan Sulfate	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Endrin	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Endrin Aldehyde	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Endrin Ketone	mg/kg	<0.05	<0.05	0

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Page: **Page 25 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7022682	NCP	OCP	Hexachlorobenzene	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Heptachlor Epoxide	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Heptachlor	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	BHC (gamma isomer) [Lindane]	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Methoxychlor	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Oxychlorodane	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Sum of DDD, DDE and DDT	mg/kg	<0.05	<0.05	0
7022682	NCP	OCP	Sum of Aldrin and Dieldrin	mg/kg	<0.05	<0.05	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022690	NCP	PCB	Aroclor 1016	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1221	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1232	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1242	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1248	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1254	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Aroclor 1260	mg/kg	<0.1	<0.1	0
7022690	NCP	PCB	Total PCBs	mg/kg	<0.1	<0.1	0
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022671	NCP	CHC	1,2,3,4-Tetrachlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,2,3,5-Tetrachlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,2,3-Trichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,2,4,5-Tetrachlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,2,4-Trichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,2-Dichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,3,5-Trichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,3-Dichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	1,4-Dichlorobenzene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	2-Chloronaphthalene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Benzal Chloride	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Benzotrichloride	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Benzylchloride	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Hexachloroethane	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Hexachlorobutadiene	mg/kg	<0.1	<0.1	0
7022671	NCP	CHC	Hexachlorocyclopentadiene	mg/kg	<0.1	<0.1	0

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Page: **Page 26 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



Lab Sample ID	Client Sample ID	Analysis	Analyte	mg/kg	Sample Value	Duplicate Value	% RPD
7022671	NCP	CHC	Pentachlorobenzene	mg/kg	<0.1	<0.1	0
7022675	NCP	Phenols(Halo)	4-Chloro-3-Methylphenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2-Chlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,4-Dichlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,6-Dichlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	Pentachlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,3,4,5-Tetrachlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,3,4,6-Tetrachlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,3,5,6-Tetrachlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,4,5-Trichlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	2,4,6-Trichlorophenol	mg/kg	<0.5	<0.5	0
7022675	NCP	Phenols(Halo)	Total Phenols (Halogenated)	mg/kg	<0.5	<0.5	0
7022673	NCP	Phenols(NonHalo)	Phenol	mg/kg	<0.5	<0.5	0
7022673	NCP	Phenols(NonHalo)	Total Cresols	mg/kg	<1	<1	0
7022673	NCP	Phenols(NonHalo)	2,4-Dimethylphenol	mg/kg	<0.5	<0.5	0
7022673	NCP	Phenols(NonHalo)	2,4-Dinitrophenol	mg/kg	<30	<30	0
7022673	NCP	Phenols(NonHalo)	2-Methyl-4,6-Dinitrophenol	mg/kg	<10	<10	0
7022673	NCP	Phenols(NonHalo)	2-Nitrophenol	mg/kg	<0.5	<0.5	0
7022673	NCP	Phenols(NonHalo)	4-Nitrophenol	mg/kg	<0.5	<0.5	0
7022673	NCP	Phenols(NonHalo)	2-Cyclohexyl-4,6-Dinitrophenol	mg/kg	<30	<30	0
7022673	NCP	Phenols(NonHalo)	Dinoseb	mg/kg	<10	<10	0
7022673	NCP	Phenols(NonHalo)	Total Phenols (non Halogenated)	mg/kg	<30	<30	0
7024584	NCP	HVOL	1,1,1,2-Tetrachloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,1,2,2-Tetrachloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,1-Dichloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,1-Dichloroethene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,1-Dichloropropene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2,3-Trichloropropane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2-Dibromo-3-Chloropropane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2-Dichloroethene [cis]	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2-Dichloroethene [trans]	mg/kg	<0.5	<0.5	0

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Page: **Page 21 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Duplicate Value	% RPD
7024584	NCP	HVOL	1,2-Dichloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2-Dichloropropane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,3-Dichloropropane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,3-Dichloropropene [cis]	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,3-Dichloropropene [trans]	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	2,2-Dichloropropane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	2-Chlorotoluene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	4-Chlorotoluene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Bromochloromethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Bromodichloromethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Bromobenzene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Bromoform (Tribromomethane)	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Carbon Tetrachloride	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Chloroform (Trichloromethane)	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Chlorobenzene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Dibromochloromethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Dibromomethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,2-Dibromoethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Dichloromethane	mg/kg	<1	<1	0
7024584	NCP	HVOL	Trichlorofluoromethane (CFC11)	mg/kg	<2	<2	0
7024584	NCP	HVOL	Tetrachloroethene	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Vinyl Chloride (Monomer)	mg/kg	<1	<1	0
7024584	NCP	HVOL	1,1,1-Trichloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	1,1,2-Trichloroethane	mg/kg	<0.5	<0.5	0
7024584	NCP	HVOL	Trichloroethene	mg/kg	<0.5	<0.5	0

QUALITY CONTROL - SPIKES

QC Data for spikes is calculated on raw 'unrounded' values. Laboratory spikes are randomly selected samples in which the analytes in question have been artificially introduced and recovered via standard analysis and are used to provide information on potential matrix effects on analyte recoveries.

Spike recoveries that fall outside the general acceptance criteria will be attributed to sample matrix interference or results of high magnitudes.

NCP: Non-Customer Parent (sample quality is representative of the analytical batch but the sample that was QC tested belongs to a customer not pertaining to the report.)

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Page: **Page 28 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



Lab Sample ID	Client Sample ID	Analysis	Analyte	Sample Value	Expected Value	% Recovery	
7024920	NCP	Total Fluoride	Total Fluoride, as F	mg/kg	310	700	82.3
7025053	NCP	Cyanide	Cyanide, as CN	mg/kg	<5	20	115
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022799	NCP	MS Total Metals	Cadmium	mg/kg	<0.2	100	96.9
7022799	NCP	MS Total Metals	Copper	mg/kg	<5	100	97.1
7022799	NCP	MS Total Metals	Lead	mg/kg	23	120	101
7022799	NCP	MS Total Metals	Mercury	mg/kg	0.05	1.0	104
7022799	NCP	MS Total Metals	Molybdenum	mg/kg	<5	100	95.8
7022799	NCP	MS Total Metals	Nickel	mg/kg	<5	100	101
7022799	NCP	MS Total Metals	Selenium	mg/kg	<3	100	85.3
7022799	NCP	MS Total Metals	Zinc	mg/kg	27	130	97.8
7025458	NCP	MS Total Metals	Antimony	mg/kg	<5	100	84.5
7025458	NCP	MS Total Metals	Beryllium	mg/kg	<5	100	96.9
7025458	NCP	MS Total Metals	Boron	mg/kg	<10	100	95.8
7025458	NCP	MS Total Metals	Cadmium	mg/kg	<0.2	100	108
7025458	NCP	MS Total Metals	Chromium	mg/kg	14	110	108
7025458	NCP	MS Total Metals	Cobalt	mg/kg	<5	100	110
7025458	NCP	MS Total Metals	Copper	mg/kg	<5	100	94.6
7025458	NCP	MS Total Metals	Lanthanum	mg/kg	15	110	120
7025458	NCP	MS Total Metals	Lead	mg/kg	9	110	109
7025458	NCP	MS Total Metals	Mercury	mg/kg	<0.05	1.0	108
7025458	NCP	MS Total Metals	Molybdenum	mg/kg	<5	100	101
7025458	NCP	MS Total Metals	Nickel	mg/kg	7	110	101
7025458	NCP	MS Total Metals	Selenium	mg/kg	<3	100	85.2
7025458	NCP	MS Total Metals	Zinc	mg/kg	12	110	95.4
7027195	NCP	MS Total Metals	Beryllium	mg/kg	<5	100	89.5
7027195	NCP	MS Total Metals	Boron	mg/kg	<10	100	87.4
7027195	NCP	MS Total Metals	Cadmium	mg/kg	<0.2	100	103
7027195	NCP	MS Total Metals	Cobalt	mg/kg	8	110	91.3
7027195	NCP	MS Total Metals	Copper	mg/kg	11	110	98.6
7027195	NCP	MS Total Metals	Lanthanum	mg/kg	24	120	100
7027195	NCP	MS Total Metals	Mercury	mg/kg	<0.05	1.0	96.6
7027195	NCP	MS Total Metals	Molybdenum	mg/kg	<5	100	90.1

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Page: **Page 29 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Expected Value	% Recovery
7027195	NCP	MS Total Metals	Nickel	mg/kg	19	120	92.2
7027195	NCP	MS Total Metals	Silver	mg/kg	<5	1.1	84.7
7027195	NCP	MS Total Metals	Zinc	mg/kg	58	150	83.7
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7024590	NCP	MAH	Styrene	mg/kg	<0.5	5.1	74.7
7024590	NCP	MAH	Cumene	mg/kg	<0.5	5.1	78.0
7024590	NCP	MAH	1,2,4-Trimethylbenzene	mg/kg	<0.5	5.1	70.7
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7023515	NCP	BTEXN	Benzene	mg/kg	<0.5	5.1	82.0
7023515	NCP	BTEXN	Toluene	mg/kg	<0.5	5.1	84.9
7023515	NCP	BTEXN	Ethyl Benzene	mg/kg	<0.5	5.1	80.4
7023515	NCP	BTEXN	Xylene - m&p	mg/kg	<1	10	83.6
7023515	NCP	BTEXN	Xylene - O	mg/kg	<0.5	5.1	82.5
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7023526	BH04/0.0-0.1	TRH (C6-C10) & F1	TPHC6-C9	mg/kg	<20	110	74.7
7023526	BH04/0.0-0.1	TRH (C6-C10) & F1	TRHC6-C10	mg/kg	<20	120	79.5
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022679	BH05/0.0-0.1	PAH	Acenaphthene	mg/kg	<0.2	1.4	100
7022679	BH05/0.0-0.1	PAH	Acenaphthylene	mg/kg	<0.2	1.4	101
7022679	BH05/0.0-0.1	PAH	Anthracene	mg/kg	<0.2	1.4	96.0
7022679	BH05/0.0-0.1	PAH	Benzo(a)anthracene	mg/kg	<0.2	1.4	117
7022679	BH05/0.0-0.1	PAH	Benzo(a)pyrene	mg/kg	<0.2	1.4	98.4
7022679	BH05/0.0-0.1	PAH	Benzo(b)fluoranthene	mg/kg	<0.2	1.4	96.8
7022679	BH05/0.0-0.1	PAH	Benzo(g,h,i)perylene	mg/kg	<0.2	1.4	100
7022679	BH05/0.0-0.1	PAH	Benzo(k)fluoranthene	mg/kg	<0.2	1.4	96.0
7022679	BH05/0.0-0.1	PAH	Chrysene	mg/kg	<0.2	1.4	101
7022679	BH05/0.0-0.1	PAH	Dibenz(a,h)anthracene	mg/kg	<0.2	1.4	94.4
7022679	BH05/0.0-0.1	PAH	Fluoranthene	mg/kg	<0.2	1.4	110
7022679	BH05/0.0-0.1	PAH	Fluorene	mg/kg	<0.2	1.4	99.2
7022679	BH05/0.0-0.1	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	1.4	94.8
7022679	BH05/0.0-0.1	PAH	Naphthalene	mg/kg	<0.2	1.4	96.0
7022679	BH05/0.0-0.1	PAH	Phenanthrene	mg/kg	<0.2	1.4	103
7022679	BH05/0.0-0.1	PAH	Pyrene	mg/kg	<0.2	1.4	109
7022688	NCP	PAH	Acenaphthene	mg/kg	<0.1	1.4	88.4

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Page: **Page 30 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Expected Value	% Recovery
7022688	NCP	PAH	Acenaphthylene	mg/kg	<0.1	1.4	79.0
7022688	NCP	PAH	Anthracene	mg/kg	<0.1	1.4	79.6
7022688	NCP	PAH	Benz(a)anthracene	mg/kg	<0.1	1.4	96.8
7022688	NCP	PAH	Benzo(a)pyrene	mg/kg	<0.1	1.4	96.8
7022688	NCP	PAH	Benzo(b)fluoranthene	mg/kg	<0.1	1.4	90.4
7022688	NCP	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1	1.4	81.4
7022688	NCP	PAH	Benzo(k)fluoranthene	mg/kg	<0.1	1.4	85.4
7022688	NCP	PAH	Chrysene	mg/kg	<0.1	1.4	80.8
7022688	NCP	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1	1.4	86.2
7022688	NCP	PAH	Fluoranthene	mg/kg	<0.1	1.4	93.4
7022688	NCP	PAH	Fluorene	mg/kg	<0.1	1.4	78.4
7022688	NCP	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	1.4	96.2
7022688	NCP	PAH	Naphthalene	mg/kg	<0.1	1.4	74.6
7022688	NCP	PAH	Phenanthrene	mg/kg	<0.1	1.4	83.6
7022688	NCP	PAH	Pyrene	mg/kg	<0.1	1.4	94.2
7025115	NCP	PAH	Acenaphthene	mg/kg	<0.1	1.4	104
7025115	NCP	PAH	Acenaphthylene	mg/kg	<0.1	1.4	104
7025115	NCP	PAH	Anthracene	mg/kg	<0.1	1.4	101
7025115	NCP	PAH	Benz(a)anthracene	mg/kg	<0.1	1.4	103
7025115	NCP	PAH	Benzo(a)pyrene	mg/kg	<0.1	1.4	101
7025115	NCP	PAH	Benzo(b)fluoranthene	mg/kg	<0.1	1.4	101
7025115	NCP	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1	1.4	102
7025115	NCP	PAH	Benzo(k)fluoranthene	mg/kg	<0.1	1.4	99.4
7025115	NCP	PAH	Chrysene	mg/kg	<0.1	1.4	108
7025115	NCP	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1	1.4	102
7025115	NCP	PAH	Fluoranthene	mg/kg	<0.1	1.4	104
7025115	NCP	PAH	Fluorene	mg/kg	<0.1	1.4	109
7025115	NCP	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	1.4	125
7025115	NCP	PAH	Naphthalene	mg/kg	<0.1	1.4	101
7025115	NCP	PAH	Phenanthrene	mg/kg	<0.1	1.4	102
7025115	NCP	PAH	Pyrene	mg/kg	<0.1	1.4	103
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022683	NCP	OCP	BHC (alpha isomer)	mg/kg	<0.05	1.4	91.6
7022683	NCP	OCP	a-Endosulphan	mg/kg	<0.05	1.4	104

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Page: **Page 31 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Expected Value	% Recovery
7022683	NCP	OCP	Aldrin	mg/kg	<0.05	1.4	125
7022683	NCP	OCP	BHC (beta isomer)	mg/kg	<0.05	1.4	91.0
7022683	NCP	OCP	b-Endosulphan	mg/kg	<0.05	1.4	110
7022683	NCP	OCP	Chlordane	mg/kg	<0.05	2.9	123
7022683	NCP	OCP	cis-Chlordane	mg/kg	<0.05	1.4	123
7022683	NCP	OCP	trans-Chlordane	mg/kg	<0.05	1.4	122
7022683	NCP	OCP	BHC (delta isomer)	mg/kg	<0.05	1.4	112
7022683	NCP	OCP	DDD	mg/kg	<0.05	1.4	119
7022683	NCP	OCP	DDE	mg/kg	<0.05	1.4	98.2
7022683	NCP	OCP	Dieldrin	mg/kg	<0.05	1.4	109
7022683	NCP	OCP	Endosulfan Sulfate	mg/kg	<0.05	1.4	95.2
7022683	NCP	OCP	Endrin	mg/kg	<0.05	1.4	110
7022683	NCP	OCP	Endrin Aldehyde	mg/kg	<0.05	1.4	98.4
7022683	NCP	OCP	Endrin Ketone	mg/kg	<0.05	1.4	97.8
7022683	NCP	OCP	Hexachlorobenzene	mg/kg	<0.05	1.4	95.4
7022683	NCP	OCP	Heptachlor Epoxide	mg/kg	<0.05	1.4	116
7022683	NCP	OCP	Heptachlor	mg/kg	<0.05	1.4	106
7022683	NCP	OCP	BHC (gamma isomer) [Lindane]	mg/kg	<0.05	1.4	92.0
7022683	NCP	OCP	Methoxychlor	mg/kg	<0.05	1.4	56.8
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7022691	NCP	PCB	Aroclor 1016	mg/kg	<0.1	2.3	101
7022691	NCP	PCB	Aroclor 1260	mg/kg	<0.1	2.7	95.4
Lab Sample ID	Client Sample ID	Analysis	Analyte				
7024585	NCP	HVOL	1,1-Dichloroethane	mg/kg	<0.5	5.1	83.0
7024585	NCP	HVOL	1,1-Dichloroethene	mg/kg	<0.5	5.1	91.1
7024585	NCP	HVOL	1,1-Dichloropropene	mg/kg	<0.5	5.1	81.6
7024585	NCP	HVOL	1,2,3-Trichloropropane	mg/kg	<0.5	5.1	81.2
7024585	NCP	HVOL	1,2-Dichloroethene [cis]	mg/kg	<0.5	5.1	85.2
7024585	NCP	HVOL	1,2-Dichloroethene [trans]	mg/kg	<0.5	5.1	84.9
7024585	NCP	HVOL	1,2-Dichloroethane	mg/kg	<0.5	5.1	85.4
7024585	NCP	HVOL	1,2-Dichloropropane	mg/kg	<0.5	5.1	77.4
7024585	NCP	HVOL	2,2-Dichloropropane	mg/kg	<0.5	5.1	74.1
7024585	NCP	HVOL	2-Chlorotoluene	mg/kg	<0.5	5.1	70.8
7024585	NCP	HVOL	Bromochloromethane	mg/kg	<0.5	5.1	94.6

Samples not collected by ALS and are tested as received.

Samples are tested within holding time unless otherwise

blank space indicates no test performed. Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

M524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Estimated results are based on raw data.

Page: **Page 32 of 32**
 Batch No: **21-26926**
 Report Number: **898204**
 Client: **Beveridge Williams & Co Pty Ltd**
 Client Program Ref: **2101228**



					Sample Value	Expected Value	% Recovery
7024585	NCP	HVOL	Bromobenzene	mg/kg	<0.5	5.1	73.7
7024585	NCP	HVOL	Chloroform (Trichloromethane)	mg/kg	<0.5	5.1	90.0
7024585	NCP	HVOL	Chlorobenzene	mg/kg	<0.5	5.1	79.5
7024585	NCP	HVOL	Dibromomethane	mg/kg	<0.5	5.1	94.3
7024585	NCP	HVOL	1,2-Dibromoethane	mg/kg	<0.5	5.1	73.7
7024585	NCP	HVOL	Dichloromethane	mg/kg	<1	5.1	90.5
7024585	NCP	HVOL	Trichlorofluoromethane (CFC11)	mg/kg	<2	5.1	99.1
7024585	NCP	HVOL	Tetrachloroethene	mg/kg	<0.5	5.1	89.1
7024585	NCP	HVOL	Vinyl Chloride (Monomer)	mg/kg	<1	5.1	89.2
7024585	NCP	HVOL	1,1,1-Trichloroethane	mg/kg	<0.5	5.1	82.4
7024585	NCP	HVOL	1,1,2-Trichloroethane	mg/kg	<0.5	5.1	76.5
7024585	NCP	HVOL	Trichloroethene	mg/kg	<0.5	5.1	88.9

Samples not collected by ALS and are tested as received.

Samples are tested within holding time unless otherwise

blank space indicates no test performed. Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

Water microbiological testing was commenced on the day received and within 24 hours of sampling unless otherwise stated.

M524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

M526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Estimated results are based on raw data.



Chain of Custody Form

Client		City of Port Phillip		Job number	2101228
Project		Due Dilligence		Laboratory	Eurofins Scientific 6 Monterey Rd, Dandenong South VIC 3175
Location		351 St Kilda Road, St Kilda		Quote number	180618BEV-3
				Project Manager	A.Mellett
				Sampled by	S.Tomkinson/L.Stovell

Turnaround time	24hr <input type="checkbox"/>	48hr <input type="checkbox"/>	72hr <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	Comments:
------------------------	-------------------------------	-------------------------------	-------------------------------	--	-----------

From	Company	Date	Received by	Company	Date	Time
S.Tomkinson	Beveridge Williams	25/05/2021				

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

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 0.00001mg/L), Volatile CHC, Semivolatile CHC, pH, TDS, Alkalinity, Sulphate, Chloride, Fluoride, Ca, Mg, K, Ca
All groundwater heavy metals testing must be for soluble metals unless otherwise indicated.

Beveridge Williams				Job Number		2101228							
Sample ID	Date sampled	Matrix	No. of containers	Testing required									
				Suite BW Soil 1: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Se, Sn, Ag, V, Zn), OCP	Suite BW Soil 2: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Se, Sn, Ag, V, Zn), PAH	Suite BW Soil 3: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Se, Sn, Ag, V, Zn), PAH, TRH	Suite BW Soil 4: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Mn, Mo, Ni, Sb, Se, Sn, Ag, V, Zn), CrVI, Total CN, Total F, Speciated Phenols, BTEXN, Styrene, TRH, PAH, PCB, OCP, Volatile CHC, Semivolatile CHC, pH, Moisture	Suite B3: TRH, BTEXN	Suite B4: TRH, BTEXN, PAH	Suite B7: TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	Suite B8: Volatile CHC, Semivolatile CHC, pH, TDS, Alkalinity, Sulphate, Chloride, Fluoride, Ca, Mg, K, Ca	pH	
BH01/1.0-1.1A	25/05/2021	S	1										
BH04/0.0-0.1A	25/05/2021	S	1		X								

197976
 G/E ET
 26/5/21



Environment Testing

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 and proficiency testing scheme providers
 reports.

Attention: **Andrew Mellett**

Report **797926-S**
 Project name **DUE DILLIGENCE**
 Project ID **2101228**
 Received Date **May 26, 2021**

Client Sample ID	LOR	Unit	BH04/0.0-0.1A Soil M21-My49688 May 25, 2021
Sample Matrix			
Eurofins Sample No.			
Date Sampled			
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.4
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	0.6
Benzo(a)pyrene	0.5	mg/kg	0.7
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	0.6
Chrysene	0.5	mg/kg	1.0
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	1.3
Fluorene	0.5	mg/kg	< 0.5
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	1.4
Total PAH*	0.5	mg/kg	5.6
2-Fluorobiphenyl (surr.)	1	%	61
p-Terphenyl-d14 (surr.)	1	%	53
Heavy Metals			
Antimony	10	mg/kg	< 10
Arsenic	2	mg/kg	6.2
Barium	10	mg/kg	68
Beryllium	2	mg/kg	< 2
Boron	10	mg/kg	12
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	12
Cobalt	5	mg/kg	< 5
Copper	5	mg/kg	31
Lead	5	mg/kg	210
Manganese	5	mg/kg	110
Mercury	0.1	mg/kg	0.9



Environment Testing

Client Sample ID			BH04/0.0-0.1A
Sample Matrix			Soil
Eurofins Sample No.			M21-My49688
Date Sampled			May 25, 2021
Test/Reference	LOR	Unit	
Heavy Metals			
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	17
Zinc	5	mg/kg	310
% Moisture			
	1	%	8.8



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 - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	May 26, 2021	14 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	May 26, 2021	180 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	May 26, 2021	14 Days



Environment Testing

MELBOURNE

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

SYDNEY

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

BRISBANE

Brisbane
1/21 Smallwood Place
Murarie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

PERTH

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

NEWCASTLE

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

AUCKLAND

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

CHRISTCHURCH

Christchurch
43 Detroit Drive
Rolleston, Christchurch 76
Phone : 0800 856 450
IANZ # 1290

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Company Name:	Beveridge Williams & Co Pty Ltd	Order No.:		Received:	May 26, 2021 2:12 PM
Address:	PO Box 61 Malvern VIC 3144	Report #:	797926	Due:	May 31, 2021
Project Name:	DUE DILLIGENCE	Phone:	9524 8888	Priority:	3 Day
Project ID:	2101228	Fax:	9524 8899	Contact Name:	Andrew Mellett
Eurofins Analytical Services Manager : Michael Morrison					

Sample Detail						HOLD	Moisture Set	BW Soil Suite 2
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	BH01/1.0-1.1A	May 25, 2021		Soil	M21-My49687	X		
2	BH04/0.0-0.1A	May 25, 2021		Soil	M21-My49688		X	X
Test Counts						1	1	1

Internal Quality Control Review and Glossary

General

- 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.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- 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.

**NOTE: pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

ppm: Parts per million

org/100mL: Organisms per 100 millilitres

mg/L: milligrams per litre

ppb: Parts per billion

NTU: Nephelometric Turbidity Units

ug/L: micrograms per litre

%: Percentage

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - 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.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
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.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

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%

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- 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.
- 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.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Environment Testing

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-My43856	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M21-My56075	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Arsenic	M21-My56075	NCP	mg/kg	10	10	<1	30%	Pass	
Barium	M21-My56075	NCP	mg/kg	39	39	1.0	30%	Pass	
Beryllium	M21-My56075	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M21-My50925	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M21-My56075	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-My56075	NCP	mg/kg	18	17	1.0	30%	Pass	
Cobalt	M21-My56075	NCP	mg/kg	6.4	6.4	1.0	30%	Pass	
Copper	M21-My56075	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M21-My56075	NCP	mg/kg	22	22	<1	30%	Pass	
Manganese	M21-My56075	NCP	mg/kg	360	360	<1	30%	Pass	
Mercury	M21-My56075	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-My56075	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-My56075	NCP	mg/kg	24	25	1.0	30%	Pass	



Environment Testing

Duplicate				Result 1	Result 2	RPD		
Heavy Metals								
Selenium	M21-My56075	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M21-My56075	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M21-My56075	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Vanadium	M21-My56075	NCP	mg/kg	38	37	2.0	30%	Pass
Zinc	M21-My56075	NCP	mg/kg	20	19	1.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M21-My49901	NCP	%	12	11	7.0	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
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

Authorised by:

Michael Morrison	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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