CEC Geotechnical

WASTE CLASSIFICATION REPORT

Client – Anglicare Community Services
Project Title – 215, 229-239 Pitt Street, Merrylands
Project Type – Multi-storey Mixed-use Complex
Project No. – ER24029A.Rev01
Date Issued – 28/03/2025
Description of Services – Waste Classification Report

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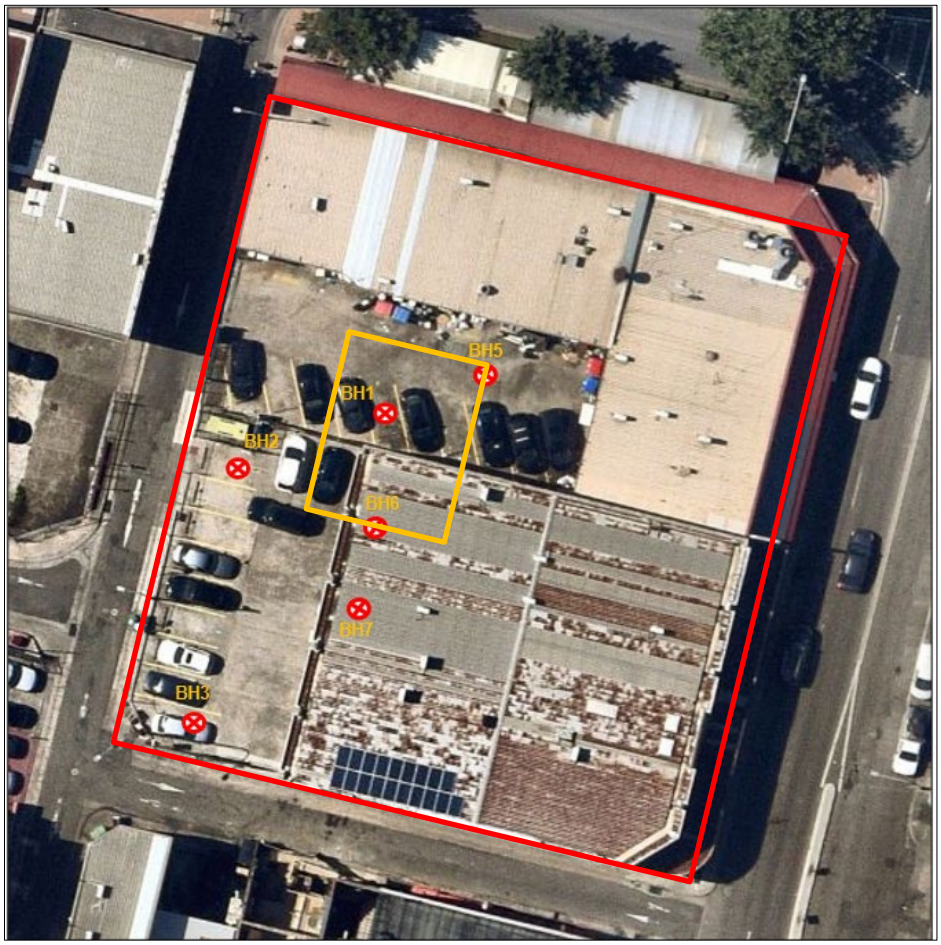
1. Introduction

As requested by Anglicare Community Services, the team of Environmental Engineers from CEC (Geotechnical) carried out sampling and testing on the 16th of December 2024 for the objective of commissioning soil classification as per the Waste Classification Guidelines published by the NSW EPA (2014).

The visual inspection was carried out on the site, and soil samples were collected from the proposed area of excavation to be undertaken (approximate area of 2,106 m^2 construction area) at 215, 229-239 Pitt Street, Merrylands. It is understood that the excavation will be performed for the redevelopment of a multi-storey, mixed-use complex, over a four-level basement car park facility. Based on the information provided by the client, the existing site topography and levels. The expected excavation depths vary between 12-13m (approximately) for the construction of the proposed development. The approximate extent of the assessed area is outlined in Figure 1.

It is understood that the site had no historical indications of orchard/market/agriculture.

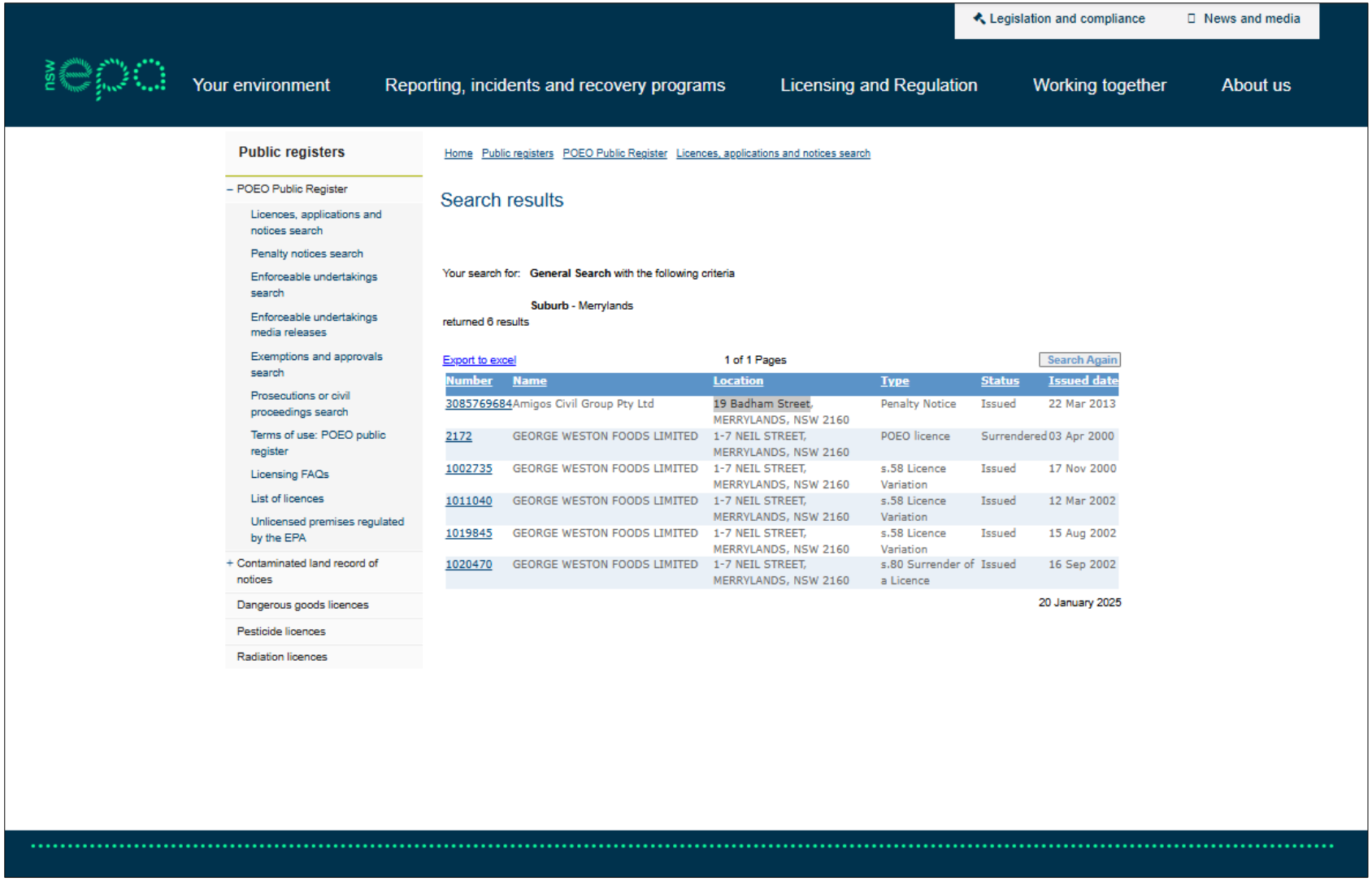
Figure 1 – Approximate Location of the Proposed Excavation



The Department of Land and Water Conservation Acid Sulphate Soils Map indicates that soils with a risk of acid sulphate soils have not been mapped within the site.

A search of the publicly available online NSW EPA CLM Act Record of Notices was completed on 20th January 2025. The results indicated that the site was not the subject of any notifications under Section 58 of the Contaminated Land Management Act 1997 issued in Merrylands suburb, as shown in Figure 2.

Figure 2 – Search of the NSWEPA Contaminated Land Management Register



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Public registers

- POEO Public Register
  - Licences, applications and notices search
  - Penalty notices search
  - Enforceable undertakings search
  - Enforceable undertakings media releases
  - Exemptions and approvals search
  - Prosecutions or civil proceedings search
  - Terms of use: POEO public register
  - Licensing FAQs
  - List of licences
  - Unlicensed premises regulated by the EPA
- + Contaminated land record of notices
- Dangerous goods licences
- Pesticide licences
- Radiation licences

Home Public registers POEO Public Register Licences, applications and notices search

Search results

Your search for: **General Search** with the following criteria

Suburb - Merrylands

returned 6 results

Export to excel 1 of 1 Pages Search Again

Number	Name	Location	Type	Status	Issued date
3085769684	Amigos Civil Group Pty Ltd	19 Badham Street, MERRYLANDS, NSW 2160	Penalty Notice	Issued	22 Mar 2013
2172	GEORGE WESTON FOODS LIMITED	1-7 NEIL STREET, MERRYLANDS, NSW 2160	POEO licence	Surrendered	03 Apr 2000
1002735	GEORGE WESTON FOODS LIMITED	1-7 NEIL STREET, MERRYLANDS, NSW 2160	s.58 Licence Variation	Issued	17 Nov 2000
1011040	GEORGE WESTON FOODS LIMITED	1-7 NEIL STREET, MERRYLANDS, NSW 2160	s.58 Licence Variation	Issued	12 Mar 2002
1019845	GEORGE WESTON FOODS LIMITED	1-7 NEIL STREET, MERRYLANDS, NSW 2160	s.58 Licence Variation	Issued	15 Aug 2002
1020470	GEORGE WESTON FOODS LIMITED	1-7 NEIL STREET, MERRYLANDS, NSW 2160	s.80 Surrender of a Licence	Issued	16 Sep 2002

20 January 2025

2. Field Investigation

The historical photographs from the subject showed a suspected former petrol station located at block 215. Therefore, the risk of contamination associated with oil/hydrocarbons on the site was assessed and may be present. Furthermore, no indication of orchard/market/agriculture could be identified through historical imagery investigation. A generalized description and summary of encountered depths are provided in Table 1.

Table 1: Generalised Summary of Subsurface Units (m)

Unit	Soil Type and Description	BH1	BH2	BH3	BH4	BH5
A	Concrete	0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
B	Fill: Sub base coarse/Residual Silty CLAY: grey, brown and yellow	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5	0.2-0.5
C	Residual Silty CLAY: grey, brown and yellow	0.5+	0.5+	0.5+	0.5+	0.5+

3. Soil Sampling

Six (06) boreholes BH1-BH3, BH5-BH7 were drilled across the proposed excavation area of the site. Three boreholes BH1-BH3 were drilled deeper to a maximum depth of 4.0m and three BHs (BH5-BH7) were drilled shallow to a maximum depth of 2.0m. Twenty-four (21) in-situ soil samples were collected from 6 BHs, 6 shallow samples (0.25m-0.5m), and 15 deep samples (0.5m-4.0m). Samples were placed in 250g laboratory-prepared glass jars which were capped using Teflon-sealed screw caps. Also, samples were collected for asbestos identification, and samples were also collected for foreign material analysis; both these types of samples were stored in lab-specified plastic bags. The samples were submitted to Eurofins Environment Testing (Eurofins) NATA-accredited laboratory, for chemical analysis.

4. Laboratory Results

Test results received from Eurofins Environment Testing (Eurofins), Report Reference Number 1174650-S, and 1174650-AID, along with contaminant threshold values obtained from Table 4 of “The Excavated Natural Material Exemption 2014” (ENM) by the NSW EPA, are presented in Table 2. The concentrations of sample results presented in bold with red colour show, the sample concentration have exceeded the site threshold concentrations. Laboratory test certificates are enclosed in **Appendix B**.

After analysing the soil samples recovered from the site, BH1-0.5 and BH6-0.3 cannot be classified as Excavated Natural Material for reuse purposes, due to exceedances in the tolerance limits for Cadmium, Lead, Zinc, Xylene and TRH (C10-C36) in soil sample BH1-0.5; Lead in soil sample BH6-0.4.

Therefore, the soil samples were attempted to categories as General Solid Waste. Test results received from Eurofins Environment Testing (Eurofins), Report Reference Number 1174650-S, and 1174650-AID are summarised in Table 3 along with the contaminant threshold values. The table presents the results of the chemical composition with the Specific Contaminant Concentrations from Table 1 of Part 1: Classifying Waste, Waste Classification Guidelines published by the NSW EPA (2014).

Table 2: In-situ Soil Sample Results (mg/kg)

Sample Location	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Total PAH	Benzo(a)pyrene	Benzene	Toluene	Ethyl-Benzene	Xylenes	EC (mS/cm)	pH	Foreign Materials (%)	TRH (C10-C36)	Asbestos
BH1-0.5	10	4.5	21	140	870	0.1	18	400	30	<0.5	0.2	0.8	3.7	35	-	-	-	11,300	No
BH1-1.0	4.6	<0.4	11	13	37	<0.1	24	24	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.17	8.7	<0.05	171	No
BH1-2.0	5.3	<0.4	10	9.4	11	<0.1	<5	7.4	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.16	8.8	<0.05	<50	No
BH1-3.0	23	<0.4	23	24	31	<0.1	8	33	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.21	8.9	<0.05	<50	No
BH1-4.0	9.6	<0.4	13	20	17	<0.1	6.3	29	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.65	8.5	<0.05	<50	No
BH2-0.5	5.9	<0.4	12	6.1	17	<0.1	<5	5.3	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	-	-	-	<50	No
BH2-1.0	7.9	<0.4	18	14	25	<0.1	5.9	8.3	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.11	7.8	<0.05	<50	No
BH2-3.0	3	<0.4	8.6	7.3	8.5	<0.1	<5	<5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.021	9.2	<0.05	<50	No
BH2-4.0	23	<0.4	20	22	28	<0.1	6.7	32	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.97	8.2	<0.05	<50	No
BH3-0.5	5	<0.4	10	11	13	<0.1	<5	5.4	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	-	-	-	<50	No
BH3-1.0	8.4	<0.4	22	12	14	<0.1	<5	16	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.08	9.1	<0.05	85	No
BH3-2.0	7.5	<0.4	13	14	18	<0.1	<5	5.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.025	8.9	<0.05	<50	No
BH5-2.0	7.6	<0.4	13	14	18	<0.1	<5	5.1	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.03	8.9	<0.05	<50	No
BH6-0.4	11	0.6	23	50	110	0.1	18	270	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	-	-	-	<50	No
BH6-1.0	11	<0.4	21	30	64	<0.1	9.2	100	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.056	7.7	<0.05	<50	No
BH6-1.5	7.9	<0.4	26	15	14	<0.1	5.5	11	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.016	8.7	<0.05	<50	No
BH7-0.4	14	<0.4	27	33	44	<0.1	18	110	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	-	-	-	<50	No
BH7-0.9	5.8	<0.4	18	14	16	<0.1	6.4	15	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.024	8.3	<0.05	<50	No
BH7-1.5	9.7	<0.4	21	17	17	<0.1	<5	8.7	<0.5	<0.5	<0.1	<0.1	<0.1	<0.3	0.026	8.3	<0.05	<50	No
Mean	**8.45**	**<0.4**	**5**	**17.7**	**18.4**	**<0.1**	**17.9**	**59.1**	**<0.5**	**3**	**<0.1**	**<0.1**	**<0.1**	**<0.3**	**0.74**	**6**	**<0.05**	**<50**	**-**
Maximum Average Concentration	**20**	**0.5**	**75**	**100**	**50**	**0.5**	**30**	**150**	**20**	**0.5**	**75**	**100**	**50**	**0.5**	**1.5**	**5-9**	**0.05**	**150**	**-**
Absoulte Maximum Concentration	**40**	**1**	**150**	**200**	**100**	**1**	**60**	**300**	**40**	**1**	**150**	**200**	**100**	**1**	**3**	**4.5-10**	**0.1**	**300**	**-**

After analysing the soil samples recovered from BH1-0.5 and BH6-0.4. The material from BH1-0.5 and BH6-0.4 cannot be classified as General Solid Waste (non-putrescible) for landfill / disposal purposes, due to exceedances in the tolerance limits for Lead and TRH (C10-C36) for soil sample BH1-0.5; Lead for soil sample BH6-0.4.

Table 3: Soil Sample Results Following Waste Classification Guidelines(mg/kg)

Sample	Arsenic	Cadmium	Chromium	Lead	Mercury	Nickel	Benzene	Toluene	Ethylbenzene	xylenes	Benzo(a)pyrene	Total PAH	TRH (C6-C9)	TRH (C10-C36)	Asbestos
BH1-0.5	10	4.5	21	870	0.1	18	0.2	0.8	3.7	35	<0.5	30	270	11,300	No
BH1-1.0	4.6	<0.4	11	37	<0.1	24	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	171	No
BH1-2.0	5.3	<0.4	10	11	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH1-3.0	23	<0.4	23	31	<0.1	8	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH1-4.0	9.6	<0.4	13	17	<0.1	6.3	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH2-0.5	5.9	<0.4	12	17	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH2-1.0	7.9	<0.4	18	25	<0.1	5.9	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH2-3.0	3	<0.4	8.6	8.5	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH2-4.0	23	<0.4	20	28	<0.1	6.7	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH3-0.5	5	<0.4	10	13	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH3-1.0	8.4	<0.4	22	14	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	85	No
BH3-2.0	7.5	<0.4	13	18	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH5-0.3	7.2	<0.4	19	30	<0.1	8	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	372	No
BH5-1.0	4.6	<0.4	18	17	<0.1	8.6	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	830	No
BH5-2.0	7.6	<0.4	13	18	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH6-0.4	11	0.6	23	110	0.1	18	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH6-1.0	11	<0.4	21	64	<0.1	9.2	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH6-1.5	7.9	<0.4	26	14	<0.1	5.5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH7-0.4	14	<0.4	27	44	<0.1	18	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH7-0.9	5.8	<0.4	18	16	<0.1	6.4	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
BH7-1.5	9.7	<0.4	21	17	<0.1	<5	<0.1	<0.1	<0.1	<0.3	<0.5	<0.5	<20	< 50	No
GSW Criteria CT1 mg/kg	100	20	100	100	4	40	10	288	600	1000	0.5	200	650	10,000	-
RSW Criteria CT2 mg/kg	400	80	400	400	16	160	40	1152	2400	4000	3.2	800	2600	40,000	-

Additional testing was undertaken by Eurofins, (Report Reference Number 1186656-L) testing for Lead Toxicity Characteristics Leaching Procedure (TCLP). The results are summarised in Table 5 with the relevant Contaminant Concentrations from Table 2 of the Part 1: Classifying Waste, Waste Classification Guidelines published by the NSW EPA (2014).

Table 4: Results of Lead TCLP Extract Following Waste Classification Guidelines

Sample	Contaminant	SCC (mg/kg)	GSW Criteria SCC1 (mg/kg)	TCLP (mg/L)	GSW Criteria TCLP1 (mg/L)	Revised Waste Classification with TCLP
BH1-0.3	Nickel	870	1050	0.19	5	General
BH6-0.4	Nickel	110	1050	0.03	5	General

5. Conclusion

The site at 215, 229-239 Pitt Street, Merrylands has an approximate of 1,823 m^2 of excavation area. Based on the historical imagery review, visual observations and laboratory chemical results, the Fill and Silty Clay (Unit B and C) can be classified after splitting in to 2 different zones, one under **yellow zone** can be classified as Restricted Solid Waste from depth of 0.2-0.7m, the Silty Clay- and one with red, excluding the yellow zone can be classified as General Solid Waste from the depth of 0.2-0.5m. However, due to current site restrictions, it is suggested to collect more samples under the existing structure after the demolition. This can assure that the waste classification is fully representative of the site.

Similarly, the Residual- Silty Clay material (Unit C) can be classified as excavated natural material (ENM) for future use (offsite/onsite) into 2 different zones. The one under yellow zone, the ENM can start from 0.7m depth and one with red, excluding the yellow zone, the ENM can start from 0.5m depth, since both of these with respective depths are in accordance with the definition of ENM given under the Protection of the Environments Operations Act 1997 as outlined below:

'Natural material (such as clay, gravel, sand, soil or rock fines):

- That has been excavated or quarried from areas that are not contaminated with manufactured chemicals or process residues, as a result of industrial, commercial, mining or agricultural activities, and

- That does not contain any sulfidic ores or soils or any other waste.'

We trust the above meets your present requirements, if you have any further queries, please do not hesitate to contact the writer.

We trust the above meets your present requirements, if you have any further queries, please do not hesitate to contact the writer.

6. Conditions of the Recommendation

All work conducted, and reports produced by CEC (Geotechnical) are for a particular Client's objective and are based on a specific scope, conditions and limitations that were discussed in the proposal prepared by the CEC (Geotechnical) and agreed by the Client. Information and/or report(s) prepared by CEC (Geotechnical) may therefore not be suitable for any use other than the intended objective of the project

The results of this assessment are based on the site conditions identified at the time of the site inspection/ investigation desktop study and validation sampling (if conducted). The assessment may not identify contamination occurring in all areas of the site, or there may be special conditions pertaining to the site that have not been revealed during the investigation and not documented in the report. Subsurface conditions may vary considerably away from the sample locations where information has been obtained. Moreover, CEC (Geotechnical) will not be liable to revise the report to account for any changes in site characteristics, regulatory requirements, assessment criteria or the availability of additional information, subsequent to the issue date of this report.

The report and/or any information produced by CEC (Geotechnical) should not be reproduced and/or presented prior permission from CEC (Geotechnical).

It has been assumed that data supplied by the client, or any other external data/reports have been referred by CEC (Geotechnical). It is also assumed that the referred information is correct unless otherwise stated. CEC (Geotechnical) has no obligation for incomplete or inaccurate data provided by any external source(s).

For and on behalf of CEC Geotechnical Pty Ltd.

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Environmental Engineer B.E (Chemical), M.E. (Environmental).	Associate Environmental Engineer B.E. (Civil), M.E.(Environmental), PhD (Environmental) CEnvP (General)#1574

References

- Protection of the Environments Operations Act (1997), NSWEPA
- NSWEPA (2014). The Excavated Natural Material Exemption
- NSW EPA (2014). Waste Classification Guidelines

APPENDIX A – Site Photographs

Photograph 1 – North View: North Elevation of Block 215 Pitt St

Photograph 2 – East View: East Elevation of Block 215 Pitt St

Photograph 3 – Rear View: Rear Elevation of Block 215 Pitt St

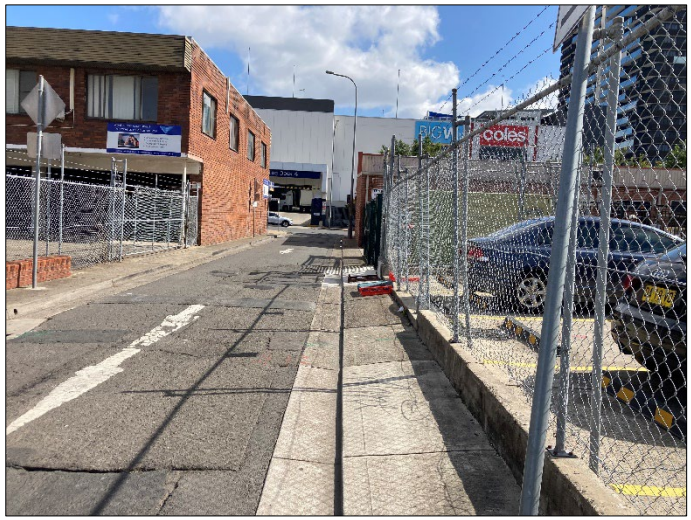
Photograph 4 – Rear View: Rear Parking of Block 215 Pitt St

Photograph 5 – Rear View: Waste Drums and Containers of Food Supplies

Photograph 6 – East View: East Elevation of Block 229-239 Pitt St

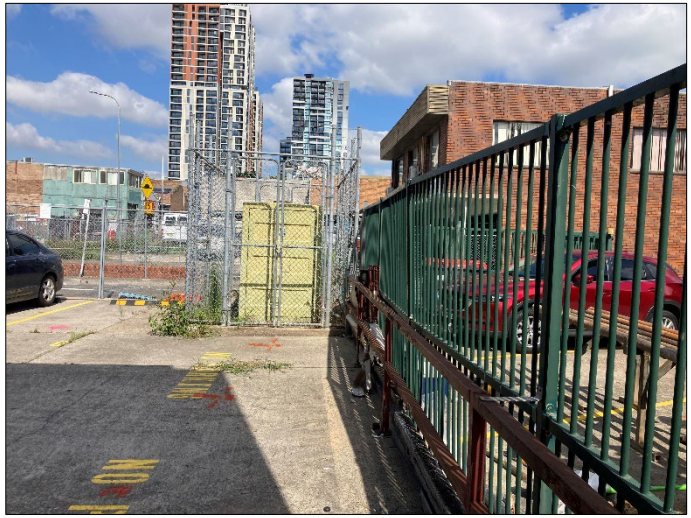
Photograph 7 – South View: South Elevation of Block 229-239 Pitt St

Photograph 8 – West View: West Elevation of Block 229-239 Pitt St



Photograph 9 – West View: West End from the Site

Photograph 10 – Rear View: Rear Elevation of Block 229-239 Pitt St



Photograph 11 – West View: Electrical Substation at the Rear of Block 229-239 Pitt St

Photograph 12 – Rear View: Rear Parking of Block 229-239 Pitt St

APPENDIX B – Lab Results

CEC Geotechnical
Unit 4 83 Grose Street
North Paramatta
NSW 2151

Attention: **Diego**

Report **1174650-S**
Project name PSI/WASTE CLASS
Project ID ER24029
Received Date Dec 20, 2024

Client Sample ID			**BH1_0.5-1**	**BH1_0.5-2**	**BH1_1**	**BH1_2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Ja0001160**	**S25-Ja0001161**	**S25-Ja0001162**	**S25-Ja0001163**
Date Sampled			**Dec 16, 2024**	**Dec 16, 2024**	**Dec 16, 2024**	**Dec 16, 2024**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	270	480	< 20	< 20
TRH C10-C14	20	mg/kg	4200	5100	33	< 20
TRH C15-C28	50	mg/kg	4600	4600	76	< 50
TRH C29-C36	50	mg/kg	2500	3100	62	< 50
TRH C10-C36 (Total)	50	mg/kg	11300	12800	171	< 50
TRH C6-C10	20	mg/kg	600	970	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	560	880	< 20	< 20
TRH >C10-C16	50	mg/kg	5300	4500	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	5285	4480	< 50	< 50
TRH >C16-C34	100	mg/kg	5500	6700	120	< 100
TRH >C34-C40	100	mg/kg	1100	1400	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	11900	12600	120	< 100
BTEX						
Benzene	0.1	mg/kg	0.2	0.4	< 0.1	< 0.1
Toluene	0.1	mg/kg	0.8	0.8	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	3.7	13	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	23	56	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	12	15	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	35	71	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84	93	116	72
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	52	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH1_0.5-1	BH1_0.5-2	BH1_1	BH1_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001160	S25-Ja0001161	S25-Ja0001162	S25-Ja0001163
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	29	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	0.2	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	3.7	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	1.3	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	23	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	12	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	0.8	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	35	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	41	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	84	-	116	72
Toluene-d8 (surr.)	1	%	75	-	75	INT
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	15	20	< 0.5	< 0.5

Client Sample ID			BH1_0.5-1	BH1_0.5-2	BH1_1	BH1_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001160	S25-Ja0001161	S25-Ja0001162	S25-Ja0001163
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	0.9	1.3	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	26	36	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.1	1.2	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.9	0.7	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	30	39	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	85	101	82
p-Terphenyl-d14 (surr.)	1	%	90	87	88	72
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	-	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	-	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	-	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	0.8	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	-	< 5	< 5
Dinoseb	20	mg/kg	< 20	-	< 20	< 20
Phenol	0.5	mg/kg	1.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	84	-	100	79
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	< 20	< 20

Client Sample ID			BH1_0.5-1	BH1_0.5-2	BH1_1	BH1_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001160	S25-Ja0001161	S25-Ja0001162	S25-Ja0001163
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	10	11	4.6	5.3
Cadmium	0.4	mg/kg	4.5	4.8	< 0.4	< 0.4
Chromium	5	mg/kg	21	28	11	10
Copper	5	mg/kg	140	180	13	9.4
Lead	5	mg/kg	870	680	37	11
Mercury	0.1	mg/kg	0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	24	< 5	< 5
Zinc	5	mg/kg	400	500	24	7.4
Sample Properties						
% Moisture	1	%	19	19	16	15
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	170	160
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	-	8.7	8.8
Foreign Materials - ENM						
Initial Weight*	0.01	kg	-	-	6.3	4.3
Foreign Material - Type I						
Metal*	0.1	%	-	-	< 0.1	< 0.1
Glass*	0.1	%	-	-	< 0.1	< 0.1
Asphalt*	0.1	%	-	-	< 0.1	< 0.1
Stone*	0.1	%	-	-	100	100
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	-	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	-	-	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	-	-	< 0.1	< 0.1
Foreign Material - Type III						
Rubber*	0.05	%	-	-	< 0.05	< 0.05
Plastic*	0.05	%	-	-	< 0.05	< 0.05
Bitumen*	0.05	%	-	-	< 0.05	< 0.05
Paper*	0.05	%	-	-	< 0.05	< 0.05
Cloth*	0.05	%	-	-	< 0.05	< 0.05
Paint*	0.05	%	-	-	< 0.05	< 0.05
Wood*	0.05	%	-	-	< 0.05	< 0.05
Vegetable matter*	0.05	%	-	-	< 0.05	< 0.05

Client Sample ID			BH1_3	BH1_4	BH2_0.5	BH2_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001164	S25-Ja0001165	S25-Ja0001166	S25-Ja0001167
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH1_3	BH1_4	BH2_0.5	BH2_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001164	S25-Ja0001165	S25-Ja0001166	S25-Ja0001167
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	68	67	INT	68
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH1_3	BH1_4	BH2_0.5	BH2_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001164	S25-Ja0001165	S25-Ja0001166	S25-Ja0001167
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	68	-	INT	68
Toluene-d8 (surr.)	1	%	INT	-	INT	INT
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	99	100	101	97
p-Terphenyl-d14 (surr.)	1	%	84	88	86	86

Client Sample ID			BH1_3	BH1_4	BH2_0.5	BH2_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001164	S25-Ja0001165	S25-Ja0001166	S25-Ja0001167
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	-	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	-	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	-	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	-	< 5	< 5
Dinoseb	20	mg/kg	< 20	-	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	95	-	97	96
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	< 20	< 20
Heavy Metals						
Arsenic	2	mg/kg	23	9.6	5.9	7.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	13	12	18
Copper	5	mg/kg	24	20	6.1	14
Lead	5	mg/kg	31	17	17	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.0	6.3	< 5	5.9
Zinc	5	mg/kg	33	29	5.3	8.3
Sample Properties						
% Moisture	1	%	24	9.6	18	17
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	210	650	-	110
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.9	8.5	-	7.8
Foreign Materials - ENM						
Initial Weight*	0.01	kg	5.7	-	-	6.0
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	-	-	< 0.1
Glass*	0.1	%	< 0.1	-	-	< 0.1
Asphalt*	0.1	%	< 0.1	-	-	< 0.1
Stone*	0.1	%	100	-	-	100
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	-	-	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	-	-	< 0.1
Clay lumps and other friable material*	0.1	%	< 0.1	-	-	< 0.1

Client Sample ID			BH1_3	BH1_4	BH2_0.5	BH2_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001164	S25-Ja0001165	S25-Ja0001166	S25-Ja0001167
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	-	-	< 0.05
Plastic*	0.05	%	< 0.05	-	-	< 0.05
Bitumen*	0.05	%	< 0.05	-	-	< 0.05
Paper*	0.05	%	< 0.05	-	-	< 0.05
Cloth*	0.05	%	< 0.05	-	-	< 0.05
Paint*	0.05	%	< 0.05	-	-	< 0.05
Wood*	0.05	%	< 0.05	-	-	< 0.05
Vegetable matter*	0.05	%	< 0.05	-	-	< 0.05

Client Sample ID			BH2_3	BH2_4	BH3_0.5	BH3_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001168	S25-Ja0001169	S25-Ja0001170	S25-Ja0001171
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	85
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	85
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	60	107	84	91
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH2_3	BH2_4	BH3_0.5	BH3_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001168	S25-Ja0001169	S25-Ja0001170	S25-Ja0001171
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	60	107	84	91
Toluene-d8 (surr.)	1	%	INT	75	66	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH2_3	BH2_4	BH3_0.5	BH3_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001168	S25-Ja0001169	S25-Ja0001170	S25-Ja0001171
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81	94	82	87
p-Terphenyl-d14 (surr.)	1	%	86	100	89	92
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	90	102	91	85
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH2_3	BH2_4	BH3_0.5	BH3_1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001168	S25-Ja0001169	S25-Ja0001170	S25-Ja0001171
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	3.0	23	5.0	8.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.6	20	10	22
Copper	5	mg/kg	7.3	22	11	12
Lead	5	mg/kg	8.5	28	13	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.7	< 5	< 5
Zinc	5	mg/kg	< 5	32	5.4	16
Sample Properties						
% Moisture	1	%	15	15	15	11
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	21	970	-	80
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.2	8.2	-	9.1
Foreign Materials - ENM						
Initial Weight*	0.01	kg	5.5	4.7	-	3.0
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	< 0.1	-	< 0.1
Glass*	0.1	%	< 0.1	< 0.1	-	< 0.1
Asphalt*	0.1	%	< 0.1	< 0.1	-	< 0.1
Stone*	0.1	%	100	100	-	100
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	-	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	< 0.1	-	< 0.1
Clay lumps and other friable material*	0.1	%	< 0.1	< 0.1	-	< 0.1
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	< 0.05	-	< 0.05
Plastic*	0.05	%	< 0.05	< 0.05	-	< 0.05
Bitumen*	0.05	%	< 0.05	< 0.05	-	< 0.05
Paper*	0.05	%	< 0.05	< 0.05	-	< 0.05
Cloth*	0.05	%	< 0.05	< 0.05	-	< 0.05
Paint*	0.05	%	< 0.05	< 0.05	-	< 0.05
Wood*	0.05	%	< 0.05	< 0.05	-	< 0.05
Vegetable matter*	0.05	%	< 0.05	0.23	-	< 0.05

Client Sample ID			BH3_2	BH5_0.3	BH5_1	BH5_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001172	S25-Ja0001173	S25-Ja0001174	S25-Ja0001175
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	160	430	< 20
TRH C15-C28	50	mg/kg	< 50	160	280	< 50
TRH C29-C36	50	mg/kg	< 50	52	120	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	372	830	< 50
TRH C6-C10	20	mg/kg	< 20	56	21	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	56	21	< 20

Client Sample ID			BH3_2	BH5_0.3	BH5_1	BH5_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001172	S25-Ja0001173	S25-Ja0001174	S25-Ja0001175
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	220	350	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	220	350	< 50
TRH >C16-C34	100	mg/kg	< 100	160	320	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	380	670	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	71	95	128	93
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH3_2	BH5_0.3	BH5_1	BH5_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001172	S25-Ja0001173	S25-Ja0001174	S25-Ja0001175
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	71	95	128	93
Toluene-d8 (surr.)	1	%	59	59	107	INT
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	101	82	INT
p-Terphenyl-d14 (surr.)	1	%	90	88	78	62

Client Sample ID			BH3_2	BH5_0.3	BH5_1	BH5_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001172	S25-Ja0001173	S25-Ja0001174	S25-Ja0001175
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	92	93	66	INT
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Heavy Metals						
Arsenic	2	mg/kg	7.5	7.2	4.6	7.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	19	18	13
Copper	5	mg/kg	14	18	16	14
Lead	5	mg/kg	18	30	17	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	8.0	8.6	< 5
Zinc	5	mg/kg	5.2	20	14	5.1
Sample Properties						
% Moisture	1	%	16	15	16	16
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	25	-	33	30
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.9	-	7.4	8.9
Foreign Materials - ENM						
Initial Weight*	0.01	kg	2.6	-	6.2	4.7
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	-	< 0.1	< 0.1
Glass*	0.1	%	< 0.1	-	< 0.1	< 0.1
Asphalt*	0.1	%	< 0.1	-	< 0.1	< 0.1
Stone*	0.1	%	100	-	100	100
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	-	< 0.1	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	-	< 0.1	< 0.1
Clay lumps and other friable material*	0.1	%	< 0.1	-	< 0.1	< 0.1

Client Sample ID			BH3_2	BH5_0.3	BH5_1	BH5_2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001172	S25-Ja0001173	S25-Ja0001174	S25-Ja0001175
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	-	< 0.05	< 0.05
Plastic*	0.05	%	< 0.05	-	< 0.05	< 0.05
Bitumen*	0.05	%	< 0.05	-	< 0.05	< 0.05
Paper*	0.05	%	< 0.05	-	< 0.05	< 0.05
Cloth*	0.05	%	< 0.05	-	< 0.05	< 0.05
Paint*	0.05	%	< 0.05	-	< 0.05	< 0.05
Wood*	0.05	%	< 0.05	-	< 0.05	< 0.05
Vegetable matter*	0.05	%	< 0.05	-	< 0.05	< 0.05

Client Sample ID			BH6_0.4	BH6_1	BH6_1.5	BH7_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001176	S25-Ja0001177	S25-Ja0001178	S25-Ja0001179
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	102	91	86	90
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH6_0.4	BH6_1	BH6_1.5	BH7_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001176	S25-Ja0001177	S25-Ja0001178	S25-Ja0001179
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	102	91	86	90
Toluene-d8 (surr.)	1	%	91	76	INT	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH6_0.4	BH6_1	BH6_1.5	BH7_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001176	S25-Ja0001177	S25-Ja0001178	S25-Ja0001179
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	INT	INT	99	86
p-Terphenyl-d14 (surr.)	1	%	56	73	137	86
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	INT	INT	82	92
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH6_0.4	BH6_1	BH6_1.5	BH7_0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Ja0001176	S25-Ja0001177	S25-Ja0001178	S25-Ja0001179
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	11	7.9	14
Cadmium	0.4	mg/kg	0.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	21	26	27
Copper	5	mg/kg	50	30	15	33
Lead	5	mg/kg	110	64	14	44
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	9.2	5.5	18
Zinc	5	mg/kg	270	100	11	110
Sample Properties						
% Moisture	1	%	18	19	20	25
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	56	16	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	7.7	8.7	-
Foreign Materials - ENM						
Initial Weight*	0.01	kg	-	5.5	5.5	-
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	< 0.1	-
Glass*	0.1	%	-	< 0.1	< 0.1	-
Asphalt*	0.1	%	-	< 0.1	< 0.1	-
Stone*	0.1	%	-	100	100	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	< 0.1	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	< 0.1	-
Clay lumps and other friable material*	0.1	%	-	< 0.1	< 0.1	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	< 0.05	-
Plastic*	0.05	%	-	< 0.05	< 0.05	-
Bitumen*	0.05	%	-	< 0.05	< 0.05	-
Paper*	0.05	%	-	< 0.05	< 0.05	-
Cloth*	0.05	%	-	< 0.05	< 0.05	-
Paint*	0.05	%	-	< 0.05	< 0.05	-
Wood*	0.05	%	-	< 0.05	< 0.05	-
Vegetable matter*	0.05	%	-	< 0.05	0.25	-

Client Sample ID			BH7_0.9	BH7_1.5	TB-SOIL
Sample Matrix			Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			S25-Ja0001180	S25-Ja0001181	S25-Ja0001183
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20

Client Sample ID			BH7_0.9	BH7_1.5	TB-SOIL
Sample Matrix			Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			S25-Ja0001180	S25-Ja0001181	S25-Ja0001183
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH >C10-C16	50	mg/kg	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	INT	58	137
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-

Client Sample ID			BH7_0.9	BH7_1.5	TB-SOIL
Sample Matrix			Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			S25-Ja0001180	S25-Ja0001181	S25-Ja0001183
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit			
Volatile Organics					
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	INT	58	-
Toluene-d8 (surr.)	1	%	98	INT	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	57	51	-
p-Terphenyl-d14 (surr.)	1	%	64	60	-

Client Sample ID			BH7_0.9	BH7_1.5	TB-SOIL
Sample Matrix			Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			S25-Ja0001180	S25-Ja0001181	S25-Ja0001183
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit			
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-
Pentachlorophenol	1	mg/kg	< 1	< 1	-
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	-
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	-
Phenols (non-Halogenated)					
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	-
2-Nitrophenol	1	mg/kg	< 1	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	-
4-Nitrophenol	5	mg/kg	< 5	< 5	-
Dinoseb	20	mg/kg	< 20	< 20	-
Phenol	0.5	mg/kg	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	INT	INT	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	-
Heavy Metals					
Arsenic	2	mg/kg	5.8	9.7	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-
Chromium	5	mg/kg	18	21	-
Copper	5	mg/kg	14	13	-
Lead	5	mg/kg	16	17	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-
Nickel	5	mg/kg	6.4	< 5	-
Zinc	5	mg/kg	15	8.7	-
Sample Properties					
% Moisture	1	%	17	20	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	24	26	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	8.3	8.3	-
Foreign Materials - ENM					
Initial Weight*	0.01	kg	6.6	2.5	-
Foreign Material - Type I					
Metal*	0.1	%	< 0.1	< 0.1	-
Glass*	0.1	%	< 0.1	< 0.1	-
Asphalt*	0.1	%	< 0.1	< 0.1	-
Stone*	0.1	%	100	100	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	< 0.1	-
Foreign Material - Type II					
Plaster*	0.1	%	< 0.1	< 0.1	-
Clay lumps and other friable material*	0.1	%	< 0.1	< 0.1	-

Client Sample ID			BH7_0.9	BH7_1.5	TB-SOIL
Sample Matrix			Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			S25-Ja0001180	S25-Ja0001181	S25-Ja0001183
Date Sampled			Dec 16, 2024	Dec 16, 2024	Dec 16, 2024
Test/Reference	LOR	Unit			
Foreign Material - Type III					
Rubber*	0.05	%	< 0.05	< 0.05	-
Plastic*	0.05	%	< 0.05	< 0.05	-
Bitumen*	0.05	%	< 0.05	< 0.05	-
Paper*	0.05	%	< 0.05	< 0.05	-
Cloth*	0.05	%	< 0.05	< 0.05	-
Paint*	0.05	%	< 0.05	< 0.05	-
Wood*	0.05	%	< 0.05	< 0.05	-
Vegetable matter*	0.05	%	< 0.05	< 0.05	-
BTEX and Naphthalene					
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jan 03, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Jan 03, 2025	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Phenols (Halogenated)	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Jan 03, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Jan 03, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			
ENM Exemption Suite -The excavated natural material order 2014 NSW EPA(excluding Foreign Material)			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Sydney	Jan 03, 2025	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Jan 03, 2025	7 Days
- Method: LTM-GEN-7090 pH by ISE			
ENM Exemption Suite - The excavated natural material order 2014 NSW EPA			
Foreign Material - Type I	Sydney	Jan 03, 2025	180 Days
- Method: RMS Method T276			
Foreign Material - Type II	Sydney	Jan 03, 2025	180 Days
- Method: RMS Method T276			
Foreign Material - Type III	Sydney	Jan 03, 2025	180 Days
- Method: RMS Method T276			

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Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Company Name: CEC Geotechnical
Address: Unit 4 83 Grose Street
North Paramatta
NSW 2151

Project Name: PSI/WASTE CLASS
Project ID: ER24029

Order No.: ER24029
Report #: 1174650
Phone: 02 9630 0121
Fax:

Received: Dec 20, 2024 1:24 PM
Due: Jan 8, 2025
Priority: 10 Day
Contact Name: Diego

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Asbestos - AS4964	HOLD*	Metals M8	Phenols (Speciated)	Volatile Organics	Moisture Set	ENM Exemption Suite - The excavated natural material order 2014 NSW EPA	ENM Exemption Suite -The excavated natural material order 2014 NSW	Eurofins Suite B7	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH1_0.5-1	Dec 16, 2024		Soil	S25-Ja0001160	X			X	X	X			X	
2	BH1_0.5-2	Dec 16, 2024		Soil	S25-Ja0001161	X					X			X	
3	BH1_1	Dec 16, 2024		Soil	S25-Ja0001162	X			X	X	X	X			
4	BH1_2	Dec 16, 2024		Soil	S25-Ja0001163	X			X	X	X	X			
5	BH1_3	Dec 16, 2024		Soil	S25-Ja0001164	X			X	X	X	X			
6	BH1_4	Dec 16, 2024		Soil	S25-Ja0001165	X					X		X		
7	BH2_0.5	Dec 16, 2024		Soil	S25-Ja0001166	X			X	X	X			X	
8	BH2_1	Dec 16, 2024		Soil	S25-Ja0001167	X			X	X	X	X			
9	BH2_3	Dec 16, 2024		Soil	S25-Ja0001168	X			X	X	X	X			
10	BH2_4	Dec 16, 2024		Soil	S25-Ja0001169	X			X	X	X	X			
11	BH3_0.5	Dec 16, 2024		Soil	S25-Ja0001170	X			X	X	X			X	
12	BH3_1	Dec 16, 2024		Soil	S25-Ja0001171				X	X	X	X			
13	BH3_2	Dec 16, 2024		Soil	S25-Ja0001172				X	X	X	X			
14	BH5_0.3	Dec 16, 2024		Soil	S25-Ja0001173	X			X	X	X			X	

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Sample Detail						Asbestos - AS4964	HOLD*	Metals M8	Phenols (Speciated)	Volatile Organics	Moisture Set	ENM Exemption Suite - The excavated natural material order 2014 NSW EPA	ENM Exemption Suite -The excavated natural material order 2014 NSW	Eurofins Suite B7	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X
15	BH5_1	Dec 16, 2024		Soil	S25-Ja0001174	X			X	X	X	X			
16	BH5_2	Dec 16, 2024		Soil	S25-Ja0001175	X			X	X	X	X			
17	BH6_0.4	Dec 16, 2024		Soil	S25-Ja0001176	X			X	X	X			X	
18	BH6_1	Dec 16, 2024		Soil	S25-Ja0001177	X			X	X	X	X			
19	BH6_1.5	Dec 16, 2024		Soil	S25-Ja0001178	X			X	X	X	X			
20	BH7_0.4	Dec 16, 2024		Soil	S25-Ja0001179	X			X	X	X			X	
21	BH7_0.9	Dec 16, 2024		Soil	S25-Ja0001180	X			X	X	X	X			
22	BH7_1.5	Dec 16, 2024		Soil	S25-Ja0001181	X			X	X	X	X			
23	RBW	Dec 16, 2024		Water	S25-Ja0001182			X							
24	TB-SOIL	Dec 16, 2024		Trip Blank (solid)	S25-Ja0001183										X
25	BH2_2.0	Dec 16, 2024		Soil	S25-Ja0001188		X								
Test Counts						20	1	1	20	20	22	14	1	7	1

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	98			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	124			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	96			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	89			70-130	Pass	
Benzo(g.h.i)perylene	%	106			70-130	Pass	
Benzo(k)fluoranthene	%	99			70-130	Pass	
Chrysene	%	94			70-130	Pass	
Dibenz(a.h)anthracene	%	106			70-130	Pass	
Fluoranthene	%	99			70-130	Pass	
Fluorene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	%	97			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	97			70-130	Pass	
Pyrene	%	98			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	95			25-140	Pass	
2.4-Dichlorophenol	%	80			25-140	Pass	
2.4.5-Trichlorophenol	%	84			25-140	Pass	
2.4.6-Trichlorophenol	%	77			25-140	Pass	
2.6-Dichlorophenol	%	89			25-140	Pass	
4-Chloro-3-methylphenol	%	83			25-140	Pass	
Pentachlorophenol	%	71			25-140	Pass	
Tetrachlorophenols - Total	%	72			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	73			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	70			25-140	Pass	
2-Nitrophenol	%	88			25-140	Pass	
2.4-Dimethylphenol	%	87			25-140	Pass	
2.4-Dinitrophenol	%	53			25-140	Pass	
2-Methylphenol (o-Cresol)	%	91			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	91			25-140	Pass	
4-Nitrophenol	%	73			25-140	Pass	
Dinoseb	%	93			25-140	Pass	
Phenol	%	99			25-140	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	74			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	84			70-130	Pass	
o-Xylene	%	76			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1.1-Trichloroethane	%	70			70-130	Pass	
1.2-Dichlorobenzene	%	86			70-130	Pass	
1.2-Dichloroethane	%	82			70-130	Pass	
Trichloroethene	%	79			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	109			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	105			70-130	Pass	
TRH C6-C10	%	105			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	100			70-130	Pass	
Toluene	%	106			70-130	Pass	
Ethylbenzene	%	112			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes			%	120			70-130	Pass	
o-Xylene			%	116			70-130	Pass	
Xylenes - Total*			%	119			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
Naphthalene			%	96			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	113			80-120	Pass	
Cadmium			%	109			80-120	Pass	
Chromium			%	111			80-120	Pass	
Copper			%	108			80-120	Pass	
Lead			%	94			80-120	Pass	
Mercury			%	105			80-120	Pass	
Nickel			%	109			80-120	Pass	
Zinc			%	109			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S24-De0057343	NCP	%	72			70-130	Pass	
Anthracene	S24-De0057343	NCP	%	81			70-130	Pass	
Fluoranthene	S24-De0057343	NCP	%	74			70-130	Pass	
Fluorene	S24-De0057343	NCP	%	77			70-130	Pass	
Naphthalene	S24-De0057343	NCP	%	72			70-130	Pass	
Phenanthrene	S24-De0057343	NCP	%	71			70-130	Pass	
Pyrene	S24-De0057343	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2.4.5-Trichlorophenol	S24-De0057343	NCP	%	75			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Nitrophenol	S24-De0057343	NCP	%	71			30-130	Pass	
Dinoseb	S24-De0057343	NCP	%	97			30-130	Pass	
Phenol	S24-De0057343	NCP	%	74			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	S24-De0058939	NCP	%	98			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S25-Ja0001162	CP	%	95			70-130	Pass	
TRH >C10-C16	S25-Ja0001162	CP	%	94			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S24-De0054603	NCP	%	87			70-130	Pass	
Benz(a)anthracene	S24-De0054603	NCP	%	84			70-130	Pass	
Benzo(a)pyrene	S24-De0054603	NCP	%	91			70-130	Pass	
Benzo(b&j)fluoranthene	S24-De0054603	NCP	%	95			70-130	Pass	
Benzo(g.h.i)perylene	S24-De0054603	NCP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S24-De0054603	NCP	%	92			70-130	Pass	
Chrysene	S24-De0054603	NCP	%	92			70-130	Pass	
Dibenz(a.h)anthracene	S24-De0054603	NCP	%	89			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S24-De0054603	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S25-Ja0001165	CP	%	110			70-130	Pass	
TRH C6-C10	S25-Ja0001165	CP	%	111			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S25-Ja0001165	CP	%	98			70-130	Pass	
Toluene	S25-Ja0001165	CP	%	105			70-130	Pass	
Ethylbenzene	S25-Ja0001165	CP	%	107			70-130	Pass	
m&p-Xylenes	S25-Ja0001165	CP	%	115			70-130	Pass	
o-Xylene	S25-Ja0001165	CP	%	110			70-130	Pass	
Xylenes - Total*	S25-Ja0001165	CP	%	113			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S25-Ja0001165	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S25-Ja0001168	CP	%	77			70-130	Pass	
TRH >C10-C16	S25-Ja0001168	CP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S25-Ja0001170	CP	%	105			75-125	Pass	
Cadmium	S25-Ja0001170	CP	%	98			75-125	Pass	
Chromium	S25-Ja0001170	CP	%	102			75-125	Pass	
Copper	S25-Ja0001170	CP	%	100			75-125	Pass	
Lead	S25-Ja0001170	CP	%	114			75-125	Pass	
Nickel	S25-Ja0001170	CP	%	98			75-125	Pass	
Zinc	S25-Ja0001170	CP	%	97			75-125	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S25-Ja0001179	CP	%	96			70-130	Pass	
Toluene	S25-Ja0001179	CP	%	99			70-130	Pass	
Ethylbenzene	S25-Ja0001179	CP	%	102			70-130	Pass	
m&p-Xylenes	S25-Ja0001179	CP	%	109			70-130	Pass	
o-Xylene	S25-Ja0001179	CP	%	111			70-130	Pass	
Xylenes - Total*	S25-Ja0001179	CP	%	110			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S25-Ja0001179	CP	%	81			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	N24-De0053073	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	N24-De0053073	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S25-Ja0001167	CP	uS/cm	110	110	1.0	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	S25-Ja0001167	CP	pH Units	7.8	7.6	pass	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Ja0001168	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Ja0001168	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Ja0001168	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Ja0001168	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
o-Xylene	S25-Ja0001168	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S25-Ja0001168	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S25-Ja0001168	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Ja0001168	CP	mg/kg	3.0	3.1	6.0	30%	Pass	
Cadmium	S25-Ja0001168	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Ja0001168	CP	mg/kg	8.6	9.6	12	30%	Pass	
Copper	S25-Ja0001168	CP	mg/kg	7.3	8.8	19	30%	Pass	
Lead	S25-Ja0001168	CP	mg/kg	8.5	10	20	30%	Pass	
Mercury	S25-Ja0001168	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S25-Ja0001168	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S25-Ja0001168	CP	mg/kg	< 5	5.1	31	30%	Fail	Q15
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Ja0001168	CP	%	15	15	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Ja0001170	CP	mg/kg	5.0	3.4	38	30%	Fail	Q15
Cadmium	S25-Ja0001170	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Ja0001170	CP	mg/kg	10	7.3	33	30%	Fail	Q15
Copper	S25-Ja0001170	CP	mg/kg	11	7.1	42	30%	Fail	Q15
Lead	S25-Ja0001170	CP	mg/kg	13	9.4	28	30%	Pass	
Mercury	S25-Ja0001170	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S25-Ja0001170	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S25-Ja0001170	CP	mg/kg	5.4	< 5	13	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Ja0001171	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Ja0001171	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S25-Ja0001171	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S25-Ja0001171	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S25-Ja0001171	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S25-Ja0001171	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Carbon disulfide	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S25-Ja0001171	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S25-Ja0001174	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S25-Ja0001174	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
o-Xylene	S25-Ja0001174	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Carbon disulfide	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S25-Ja0001174	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S25-Ja0001175	CP	uS/cm	30	32	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S25-Ja0001177	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Ja0001177	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Ja0001177	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S25-Ja0001177	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Ja0001177	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Ja0001177	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Ja0001177	CP	mg/kg	0.6	< 0.5	60	30%	Fail	Q15
Fluorene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Ja0001177	CP	mg/kg	0.5	< 0.5	22	30%	Pass	

Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	S25-Ja0001177	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S25-Ja0001177	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S25-Ja0001177	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	S25-Ja0001177	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	S25-Ja0001177	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	S25-Ja0001177	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	S25-Ja0001177	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	S25-Ja0001177	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S25-Ja0001177	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S25-Ja0001177	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S25-Ja0001177	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	S25-Ja0001177	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	S25-Ja0001177	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	S25-Ja0001177	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S25-Ja0001178	CP	mg/kg	7.9	6.2	25	30%	Pass	
Cadmium	S25-Ja0001178	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S25-Ja0001178	CP	mg/kg	26	18	38	30%	Fail	Q15
Copper	S25-Ja0001178	CP	mg/kg	15	13	16	30%	Pass	
Lead	S25-Ja0001178	CP	mg/kg	14	11	25	30%	Pass	
Mercury	S25-Ja0001178	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S25-Ja0001178	CP	mg/kg	5.5	< 5	29	30%	Pass	
Zinc	S25-Ja0001178	CP	mg/kg	11	7.3	38	30%	Fail	Q15
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Ja0001178	CP	%	20	20	2.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S25-Ja0001179	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S25-Ja0001179	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S25-Ja0001179	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S25-Ja0001179	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S25-Ja0001179	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S25-Ja0001179	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Fluorene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	S25-Ja0001179	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S25-Ja0001179	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S25-Ja0001179	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	S25-Ja0001179	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	S25-Ja0001179	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	S25-Ja0001179	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	S25-Ja0001179	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	S25-Ja0001179	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S25-Ja0001179	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S25-Ja0001179	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S25-Ja0001179	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	S25-Ja0001179	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	S25-Ja0001179	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	S25-Ja0001179	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S25-Ja0001181	CP	uS/cm	26	25	6.0	30%	Pass	
pH (1:5 Aqueous extract at 25 °C as rec.)	S25-Ja0001181	CP	pH Units	8.3	8.2	pass	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

Nileshni Goundar	Analytical Services Manager
Chamath JHM Annakkage	Senior Analyst-Asbestos
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Organic
Raymond Siu	Senior Analyst-Volatile
Ryan Phillips	Senior Analyst-Inorganic
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

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.

Certificate of Analysis

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CEC Geotechnical
Unit 4 83 Grose Street
North Paramatta
NSW 2151

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Attention:	Diego
Report	1174650-AID
Project Name	PSI/WASTE CLASS
Project ID	ER24029
Received Date	Dec 20, 2024
Date Reported	Jan 14, 2025

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004 and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Man-made vitreous fibre (MMVF)	Fibres exhibiting isotropic characteristics, including glass fibres, glass wool, rock wool, slag wool, ceramic fibres and bio-soluble fibres. NOTE: previously known as "synthetic mineral fibre" (SMF). Simple analytical procedures such as polarised light microscopy cannot detect or reliably identify asbestos in some types of commercial products containing asbestos, either because the fibres are below the resolution of optical microscopy or because the matrix material adheres too strongly to the fibres. For these types of products, electron microscopy may be necessary.
Subsampling Soil Samples	The sample submitted is dried and passed through a 10 mm sieve followed by a 2 mm sieve. All fibrous matter greater than 10 mm and greater than 2 mm and the material passing through the 2 mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 g to 60 g, then a subsampling routine based on ISO 3082:2017(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be subsampled for trace analysis, in accordance with AS 5370:2024*.*
Bonded asbestos-containing material (ACM)	The material is first examined, and any fibres are isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 5370:2024*. *NOTE: Even after disintegration, it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting (LOR)	The performance limitation of the AS 5370:2024* method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory limit of reporting, per se. Examination of large sample size (e.g., 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 5370:2024*, and hence, NATA Accreditation does not cover the performance of this service (non-NATA results are shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964-2004: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name PSI/WASTE CLASS
Project ID ER24029
Date Sampled Dec 16, 2024
Report 1174650-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH1_0.5-1	25-Ja0001160	Dec 16, 2024	Approximate Sample 107g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH1_0.5-2	25-Ja0001161	Dec 16, 2024	Approximate Sample 128g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH1_1	25-Ja0001162	Dec 16, 2024	Approximate Sample 95g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH1_2	25-Ja0001163	Dec 16, 2024	Approximate Sample 72g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH1_3	25-Ja0001164	Dec 16, 2024	Approximate Sample 65g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH1_4	25-Ja0001165	Dec 16, 2024	Approximate Sample 107g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH2_0.5	25-Ja0001166	Dec 16, 2024	Approximate Sample 111g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH2_1	25-Ja0001167	Dec 16, 2024	Approximate Sample 133g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH2_3	25-Ja0001168	Dec 16, 2024	Approximate Sample 161g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH2_4	25-Ja0001169	Dec 16, 2024	Approximate Sample 118g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH3_0.5	25-Ja0001170	Dec 16, 2024	Approximate Sample 93g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH5_0.3	25-Ja0001173	Dec 16, 2024	Approximate Sample 198g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH5_1	25-Ja0001174	Dec 16, 2024	Approximate Sample 338g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH5_2	25-Ja0001175	Dec 16, 2024	Approximate Sample 304g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH6_0.4	25-Ja0001176	Dec 16, 2024	Approximate Sample 160g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH6_1	25-Ja0001177	Dec 16, 2024	Approximate Sample 146g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH6_1.5	25-Ja0001178	Dec 16, 2024	Approximate Sample 153g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH7_0.4	25-Ja0001179	Dec 16, 2024	Approximate Sample 156g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH7_0.9	25-Ja0001180	Dec 16, 2024	Approximate Sample 251g Sample consisted of: Brown fine-grain clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH7_1.5	25-Ja0001181	Dec 16, 2024	Approximate Sample 181g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jan 03, 2025	Indefinite

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Eurofins Environment Testing Australia Pty Ltd
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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Company Name: CEC Geotechnical
Address: Unit 4 83 Grose Street
North Paramatta
NSW 2151

Project Name: PSI/WASTE CLASS
Project ID: ER24029

Order No.: ER24029
Report #: 1174650
Phone: 02 9630 0121
Fax:

Received: Dec 20, 2024 1:24 PM
Due: Jan 8, 2025
Priority: 10 Day
Contact Name: Diego

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Asbestos - AS4964	HOLD*	Metals M8	Phenols (Speciated)	Volatile Organics	Moisture Set	ENM Exemption Suite - The excavated natural material order 2014 NSW EPA	ENM Exemption Suite -The excavated natural material order 2014 NSW	Eurofins Suite B7	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH1_0.5-1	Dec 16, 2024		Soil	S25-Ja0001160	X			X	X	X			X	
2	BH1_0.5-2	Dec 16, 2024		Soil	S25-Ja0001161	X					X			X	
3	BH1_1	Dec 16, 2024		Soil	S25-Ja0001162	X			X	X	X	X			
4	BH1_2	Dec 16, 2024		Soil	S25-Ja0001163	X			X	X	X	X			
5	BH1_3	Dec 16, 2024		Soil	S25-Ja0001164	X			X	X	X	X			
6	BH1_4	Dec 16, 2024		Soil	S25-Ja0001165	X					X		X		
7	BH2_0.5	Dec 16, 2024		Soil	S25-Ja0001166	X			X	X	X			X	
8	BH2_1	Dec 16, 2024		Soil	S25-Ja0001167	X			X	X	X	X			
9	BH2_3	Dec 16, 2024		Soil	S25-Ja0001168	X			X	X	X	X			
10	BH2_4	Dec 16, 2024		Soil	S25-Ja0001169	X			X	X	X	X			
11	BH3_0.5	Dec 16, 2024		Soil	S25-Ja0001170	X			X	X	X			X	
12	BH3_1	Dec 16, 2024		Soil	S25-Ja0001171				X	X	X	X			
13	BH3_2	Dec 16, 2024		Soil	S25-Ja0001172				X	X	X	X			
14	BH5_0.3	Dec 16, 2024		Soil	S25-Ja0001173	X			X	X	X			X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X
15	BH5_1	Dec 16, 2024		Soil	S25-Ja0001174	X			X	X	X	X			
16	BH5_2	Dec 16, 2024		Soil	S25-Ja0001175	X			X	X	X	X			
17	BH6_0.4	Dec 16, 2024		Soil	S25-Ja0001176	X			X	X	X			X	
18	BH6_1	Dec 16, 2024		Soil	S25-Ja0001177	X			X	X	X	X			
19	BH6_1.5	Dec 16, 2024		Soil	S25-Ja0001178	X			X	X	X	X			
20	BH7_0.4	Dec 16, 2024		Soil	S25-Ja0001179	X			X	X	X			X	
21	BH7_0.9	Dec 16, 2024		Soil	S25-Ja0001180	X			X	X	X	X			
22	BH7_1.5	Dec 16, 2024		Soil	S25-Ja0001181	X			X	X	X	X			
23	RBW	Dec 16, 2024		Water	S25-Ja0001182			X							
24	TB-SOIL	Dec 16, 2024		Trip Blank (solid)	S25-Ja0001183										X
25	BH2_2.0	Dec 16, 2024		Soil	S25-Ja0001188		X								
Test Counts						20	1	1	20	20	22	14	1	7	1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

Units

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

Calculations

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

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

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

Terms

%asbestos	Estimated percentage of asbestos in a given matrix may be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**). This estimate is not NATA-accredited.
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g., by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total %w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004..
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004..
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos-containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to distinguish visibly and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess the degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021), ISBN: 9780616667079.
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012), .ISBN: 9780717665020
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
MMVF	Man-Made Vitreous Fibre - exhibiting isotropic characteristics, including glass fibres, glass wool, rock wool, slag wool, ceramic fibres and “bio-soluble fibres. NOTE: previously known as “synthetic mineral fibre” (SMF).
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004..
PCM	Phase Contrast Microscopy. This is used for fibre counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004..
Sampling	Unless otherwise stated, Eurofins are not responsible for sampling equipment or the sampling process.
SRA	Sample Receipt Advice.
Trace Analysis	An analytical procedure is used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according to AS 5370:2024* Sampling and qualitative identification of asbestos in bulk materials (ISO 22262-1:2012, MOD), formerly AS 4964-2004.. It may include (but is not limited to) actinolite, anthophyllite, or tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average %w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

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

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Certificate of Analysis

CEC Geotechnical
Unit 4 83 Grose Street
North Paramatta
NSW 2151

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Diego**

Report **1174650-W**
Project name PSI/WASTE CLASS
Project ID ER24029
Received Date Dec 20, 2024

Client Sample ID			**RBW**
Sample Matrix			**Water**
Eurofins Sample No.			**S25-Ja0001182**
Date Sampled			**Dec 16, 2024**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Jan 06, 2025	28 Days

- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH1_0.5-1	Dec 16, 2024		Soil	S25-Ja0001160	X			X	X	X			X	
2	BH1_0.5-2	Dec 16, 2024		Soil	S25-Ja0001161	X					X			X	
3	BH1_1	Dec 16, 2024		Soil	S25-Ja0001162	X			X	X	X	X			
4	BH1_2	Dec 16, 2024		Soil	S25-Ja0001163	X			X	X	X	X			
5	BH1_3	Dec 16, 2024		Soil	S25-Ja0001164	X			X	X	X	X			
6	BH1_4	Dec 16, 2024		Soil	S25-Ja0001165	X					X		X		
7	BH2_0.5	Dec 16, 2024		Soil	S25-Ja0001166	X			X	X	X			X	
8	BH2_1	Dec 16, 2024		Soil	S25-Ja0001167	X			X	X	X	X			
9	BH2_3	Dec 16, 2024		Soil	S25-Ja0001168	X			X	X	X	X			
10	BH2_4	Dec 16, 2024		Soil	S25-Ja0001169	X			X	X	X	X			
11	BH3_0.5	Dec 16, 2024		Soil	S25-Ja0001170	X			X	X	X			X	
12	BH3_1	Dec 16, 2024		Soil	S25-Ja0001171				X	X	X	X			
13	BH3_2	Dec 16, 2024		Soil	S25-Ja0001172				X	X	X	X			
14	BH5_0.3	Dec 16, 2024		Soil	S25-Ja0001173	X			X	X	X			X	

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15	BH5_1	Dec 16, 2024		Soil	S25-Ja0001174	X			X	X	X	X			
16	BH5_2	Dec 16, 2024		Soil	S25-Ja0001175	X			X	X	X	X			
17	BH6_0.4	Dec 16, 2024		Soil	S25-Ja0001176	X			X	X	X			X	
18	BH6_1	Dec 16, 2024		Soil	S25-Ja0001177	X			X	X	X	X			
19	BH6_1.5	Dec 16, 2024		Soil	S25-Ja0001178	X			X	X	X	X			
20	BH7_0.4	Dec 16, 2024		Soil	S25-Ja0001179	X			X	X	X			X	
21	BH7_0.9	Dec 16, 2024		Soil	S25-Ja0001180	X			X	X	X	X			
22	BH7_1.5	Dec 16, 2024		Soil	S25-Ja0001181	X			X	X	X	X			
23	RBW	Dec 16, 2024		Water	S25-Ja0001182			X							
24	TB-SOIL	Dec 16, 2024		Trip Blank (solid)	S25-Ja0001183										X
25	BH2_2.0	Dec 16, 2024		Soil	S25-Ja0001188		X								
Test Counts						20	1	1	20	20	22	14	1	7	1

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

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

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

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	98			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	103			80-120	Pass	
Zinc	%	109			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N24-De0042459	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	N24-De0042459	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	N24-De0042459	NCP	mg/L	< 0.001	0.001	2.0	30%	Pass	
Copper	N24-De0042459	NCP	mg/L	0.002	0.002	12	30%	Pass	
Lead	N24-De0042459	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	N24-De0042459	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	N24-De0042459	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	N24-De0042459	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

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

Authorised by:

Nileshni Goundar	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal

Glenn Jackson
Managing Director

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.

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☑ Sydney Laboratory
179 Magowar Road, Girraween, NSW 2145
+61 2 9900 8400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
Unit 1/21 Smallwood Place, Murarrie, QLD 4172
+61 7 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
46-48 Banksia Road, Welshpool, WA 6106
+61 8 6253 4444 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
+61 3 8564 5000 EnviroSampleVic@eurofins.com

Company	CEC Geotech	Project №	ER24029
Address	Merrylands	Project Name	PSI/WasteClass
Contact Name	Diego	Project Manager	Zuhaib
Phone №	-	EDD Format (Esdat, EQuIS etc)	
Special Directions	-	Sampler(s)	AS
Purchase Order	ER24029	Handed over by	
Quote ID №		Email for Invoice	zuhaib@cec-au.com; diego@cec-au.com; admin@cec-au.com; accounts@cec-au.com
		Email for Results	

Analyses — Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing

№	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Solid (S) Water (W)	B7	Asbestos ID	R16	R17	VOCs, Phenols,	Containers: 500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	BH1-0.5-1	16/12/24	S	X	X			X									9 Duplicate Sample into a lab Eurofins to analyse
2	BH1-0.5-2			X	X												
3	BH1-1.0				X	X		X									Store all Samples
4	BH1-2.0				X	X		X									
5	BH1-3.0				X	X		X									
6	BH1-4.0				X		X										
7	BH2-0.5			X	X			X									
8	BH2-1.0				X	X		X									
9	BH2-3.0				X	X		X									
10	BH2-4.0				X	X		X									
	Total Counts																

Containers — Change container type & size if necessary.

Required Turnaround Time (TAT) — Default will be 5 days if not ticked.

♦Surcharge will apply
☐ Overnight (reporting by 9am)♦
☐ Same day♦ ☐ 1 day♦
☐ 2 days♦ ☐ 3 days♦
☑ 5 days (Standard)
☐ Other( )

Method of Shipment: ☐ Courier (#) ☐ Hand Delivered ☐ Postal

Laboratory Use Only						
Received By	Brendan	Name		Signature		Date / Time
Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature		Date 10/12	Time 1:29
		SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature		Date	Time

Time | Temperature 25.1 | Report №

Eurofins Environment Testing Australia Pty Ltd EnviroSales@eurofins.com

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.

FVM

FM By

1174650

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☑ **Sydney Laboratory** 179 Magowar Road, Girraween, NSW 2145 +61 2 9900 8400 EnviroSampleNSW@eurofins.com

☐ **Brisbane Laboratory** Unit 1/21 Smallwood Place, Murarrie, QLD 4172 +61 7 3902 4600 EnviroSampleQLD@eurofins.com

☐ **Perth Laboratory** 46-48 Banksia Road, Welshpool, WA 6106 +61 8 6253 4444 EnviroSampleWA@eurofins.com

☐ **Melbourne Laboratory** 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 EnviroSampleVic@eurofins.com

Company	CEC Geotech	Project №	ER24029	Project Manager	Zuhaib
Address	Merrylands	Project Name	PSI/WasteClass	EDD Format (ESdat, EQuIS etc)	
Contact Name	Diego			Sampler(s)	AS
Phone №				Handed over by	
Special Directions				Email for Invoice	accounts@cec-au.com; admin@cec-au.com; zuhaib@cec-au.com
Purchase Order	ER24029			Email for Results	accounts@cec-au.com; admin@cec-au.com; zuhaib@cec-au.com; diego@cec-au.com
Quote ID №					

Analyses (Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing): B7; Asbestos ID; R16; R17; VOCs, Phenols

Containers (Change container type & size if necessary): 500mL Plastic; 250mL Plastic; 125mL Plastic; 200mL Amber Glass; 40mL VOA vial; 500mL PFAS Bottle; Jar (Glass or HDPE); Other (Asbestos AS4964, WA Guidelines)

Required Turnaround Time (TAT) (Default will be 5 days if not ticked. ♦Surcharge will apply)

- ☐ Overnight (reporting by 9am)♦
- ☐ Same day♦ ☐ 1 day♦
- ☐ 2 days♦ ☐ 3 days♦
- ☑ 5 days (Standard)
- ☐ Other( )

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B7	Asbestos ID	R16	R17	VOCs, Phenols	Sample Comments / Dangerous Goods Hazard Warning
1	BH3-0.5	16/12/24	S	X	X			X	Store all samples
2	BH3-1.0					X		X	
3	BH3-2.0					X		X	
4	BH5-0.3			X	X			X	
5	BH5-1.0				X	X		X	
6	BH5-2.0				X	X		X	
7	BH6-0.8			X	X			X	
8	BH6-1.0				X	X		X	
9	BH6-1.5				X	X		X	
10	BH7-0.4			X	X			X	
	Total Counts								

Method of Shipment: ☐ Courier (#) ☐ Hand Delivered ☐ Postal | Name | Signature | Date | Time

Laboratory Use Only

Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Temperature	
Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Report №	

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
+61 3 8564 5000 EnviroSampleVic@eurofins.com

Company	CEC Geotech	Project №	ER24029
Address	Merrylands	Project Name	PSI / Waste Class
Contact Name	Diego	Project Manager	Zuhaib
Phone №		EDD Format (ESdat, EQuIS etc)	
Special Directions	-	Sampler(s)	AS
Purchase Order	ER24029	Handed over by	
Quote ID №	-	Email for Invoice	accounts@cec-au.com, admin@cec-au.com, zuhaib@cec-au.com
		Email for Results	zuhaib@cec-au.com, diego@cec-au.com, admin@cec-au.com

Analyses
Where metals are required, please specify 'Total' or 'Filtered'. SUITE code must be used to attract SUITE pricing

№	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Solid (S) Water (W)	BTEX	Metals (8 metals) B7	Asbestos ID	R16	R17	VOCs, Phenol
1	BH7-0.9	16/12/24	S			X	X		X
2	BH7-1.5		S			X	X		X
3	RBW		W		X				
4	TB-Soil		S	X					
5									
6									
7									
8									
9									
10									
	Total Counts								

Containers
Change container type & size if necessary.

500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)

Required Turnaround Time (TAT)
Default will be 5 days if not ticked.

♦Surcharge will apply
☐ Overnight (reporting by 9am)♦
☐ Same day♦ ☐ 1 day♦
☐ 2 days♦ ☐ 3 days♦
☐ 5 days (Standard)
☐ Other( )

Sample Comments / Dangerous Goods Hazard Warning

Method of Shipment: ☐ Courier (#) ☐ Hand Delivered ☐ Postal

	Name	Signature	Date	Time

Laboratory Use Only

Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Temperature
Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	Time	Report №

CEC Geotechnical
Unit 4 83 Grose Street
North Paramatta
NSW 2151

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Diego**

Report **1186656-L**
Project name ADDITIONAL: PSI/WASTE CLASS
Project ID ER24029
Received Date Feb 10, 2025

Client Sample ID			**BH1-0.5**	**BH6-0.4**
Sample Matrix			**US Leachate**	**US Leachate**
Eurofins Sample No.			**S25-Fe0027231**	**S25-Fe0027232**
Date Sampled			**Dec 16, 2024**	**Dec 16, 2024**
Test/Reference	LOR	Unit		
Heavy Metals				
Lead	0.01	mg/L	0.19	0.03
USA Leaching Procedure				
Leachate Fluid*[C01]		comment	1.0	1.0
pH (initial)	0.1	pH Units	12	8.3
pH (off)*	0.1	pH Units	5.6	5.2
pH (USA HCl addition)*	0.1	pH Units	2.4	1.1

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Sydney	Feb 13, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Feb 13, 2025	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: CEC Geotechnical
Address: Unit 4 83 Grose Street
North Paramatta
NSW 2151

Project Name: ADDITIONAL: PSI/WASTE CLASS
Project ID: ER24029

Order No.:
Report #: 1186656
Phone: 02 9630 0121
Fax:

Received: Feb 10, 2025 3:32 PM
Due: Feb 17, 2025
Priority: 5 Day
Contact Name: Diego

Eurofins Analytical Services Manager : Adam Bateup

Sample Detail						Lead	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH1-0.5	Dec 16, 2024		US Leachate	S25-Fe0027231	X	X
2	BH6-0.4	Dec 16, 2024		US Leachate	S25-Fe0027232	X	X
Test Counts						2	2

eurofins | Environment Testing

Internal Quality Control Review and Glossary

General

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2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

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

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

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

Units

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µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

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Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Lead			mg/L	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	103			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S25-Fe0027231	CP	%	96			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S25-Fe0027232	CP	%	91			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S25-Fe0027227	NCP	mg/L	0.05	0.05	2.0	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Nileshni Goundar	Analytical Services Manager
Mickael Ros	Senior Analyst-Metal
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

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.

Outlook

FW: TCLP test job No. 1174650

From Adam Bateup <Adam.Bateup@eurofinsanz.com>
Date Mon 10/02/2025 3:33 PM
To SH_AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofinsanz.com>

2 attachments (64 KB)
Outlook-lbc4bvwi; Outlook-0xo1ghkv;

Additional TCLP please, standard TAT.

Kind Regards,

Adam Bateup
Analytical Services Manager
My hours are 9 am - 5 pm

Eurofins Environment Testing Australia Pty Ltd
179 Magowar Road
Girraween, NSW, 2145

Email: adam.bateup@eurofinsanz.com
Phone: 0447 584 487
Website: www.eurofins.com.au/environmental-testing

From: Zuhaib Siddiqui <zuhaib@cec-au.com>
Sent: Monday, 10 February 2025 3:32 PM
To: Adam Bateup <Adam.Bateup@eurofinsanz.com>
Cc: Diego Espinosa <diego@cec-au.com>; CEC Admin <admin@cec-au.com>; Raymond Frangi <ray@cec-au.com>
Subject: TCLP test job No. 1174650

Hi Adam

Can you please arrange a TCLP test for Lead for following two samples from your job reference of ES1174650:

BH1-0.5 and BH6-0.4

Kind regards,

Zuhaib
Associate Environmental Engineer

9630 0121

8 Buller Street, North Parramatta, NSW 2151

www.cec-au.com

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