

31 July 2025

Hope Valley Wood Waste Pty Ltd
950 Rockingham Road, Wattleup, WA 6166

Attention: [REDACTED]

Dear [REDACTED]

RE: 766 King Road, Oldbury: Additional Main Stockpile Assessment

1 INTRODUCTION

Aurora Environmental (Aurora) was commissioned by Hope Valley Wood Waste Pty Ltd to undertake an additional investigation of the Main Stockpile at 766 King Road, Oldbury (the Site) and prepare this addendum letter report.

This addendum letter report should be read in conjunction with the Limited Assessment of the Main Stockpile and Wood Stockpile letter report prepared by Aurora dated 15 March 2024 (Aurora, 2024). The Limited Assessment of the Main Stockpile was conducted by Aurora in October 2023, to understand the nature of the Construction and Demolition (C&D) waste in the stockpile for the potential for contamination and assess the suitability of the stockpiled material to be crushed and used to create hardstand at the Site. The assessment included investigation and sampling at 30 locations using test pits excavated to a maximum depth of 3m beneath the surface at accessible locations. Consequently, the central and lower portions of the stockpile were unable to be investigated.

Additional investigation was necessary to provide confidence in the nature of the materials in the central and lower portions of the stockpile prior to the Department of Water and Environmental Regulation (DWER) considering the suitability of material to be re-used on the Site, including potentially being crushed.

1.1 Objectives

The objective of the additional investigation was to further assess the central and lower middle portions of the main stockpile to clarify its contamination status and evaluate its suitability for on-Site crushing and re-use as hardstand.

Additionally, and as directed by the client, the investigation also aimed to classify a portion of material which had been excised for waste classification and validate its former footprint in the stockpile.

1.2 Scope of Work

In consideration of the objectives, Aurora completed the following scope of works.

- Observed excavation of eight test pits into the main stockpile by the client, up to a depth of 7.0m below the stockpile surface and collected at least four samples per location.
- Logged and photographed test pit contents, noting any suspected potentially asbestos containing material (PACM) or other potential sources of contamination.

- Submitted 12 selected soil samples to a National Association of Testing Authorities (NATA) accredited laboratory (ARL-Eurofins) for analysis of heavy metals, BTEX-N compounds (Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene), total recoverable hydrocarbons (TRHs), and organochlorine pesticides (OCPs).
- Collected four samples from the stockpiled material previously excavated from the Main Stockpile around Test Pit (TP) 27 for waste classification and Australian Standard Leaching Procedure (ASLP) analysis.
- Collected four samples from the base and walls of the excavation around TP27 for validation and submitted them for laboratory analysis of OCPs, TRH, BTEX-N, and heavy metals.
- Prepared this addendum report documenting the methodology, results, and conclusions on potential contamination and suitability of the material for hardstand construction.

2 METHODOLOGY

On 30 June 2025, an Aurora Environmental Scientist attended the Site to undertake the investigation. The attending scientist had received in-house training in asbestos containing material (ACM) identification and had prior experience conducting similar assessments. The Main Stockpile had been levelled by the client prior to Aurora mobilising to Site, to ensure safe access for the excavator. This allowed better access to the central portion of the stockpile. The surface had also been significantly re-worked compared to the October 2023 investigation (Aurora, 2024), including the removal of weedy vegetation, allowing better visual examination of the surface. The area surrounding TP27 had been excised and stockpiled (Figure 1) by the client prior to Aurora mobilising to Site. The client elected to excise material around TP27 for waste classification, given the presence of arsenic, copper and chromium (total) in soil sampled from TP27 at concentrations exceeding the Ecological Investigation Levels (EILs) for commercial/industrial land use.

Prior to test pitting, a two-pass walkover inspection, using 5 x 5m grid spacing, with a 90° direction change between each pass (N-S and E-W), of the Main Stockpile was conducted to identify any surface PACM. All surface PACM was hand-picked (removed from the Site), and four representative samples were selected for lab analysis for bulk asbestos identification.

Eight TPs were mechanically excavated into the main stockpile using a 20-tonne excavator, with TP locations shown on Attachment 1 – Figure 1. Excavation depths ranged from 5.5m to 7.0m below the stockpile surface and were inferred to extend to within 0.5m of the natural ground surface beneath the stockpile to characterise the full vertical profile of the Main Stockpile. TP logs and photographs of materials encountered are presented in Attachment 2. Soil samples were collected from each TP based on field observations, and 12 samples were submitted for laboratory analysis of heavy metals, BTEX-N compounds, TRHs, and OCPs, consistent with the previous Limited Assessment (Aurora, 2024).

Four samples were collected from separately stockpiled material, which was estimated to be approximately 120-150m³ previously excavated from around TP27 for waste classification and ASLP analysis of heavy metals, as requested by the client. An additional four samples were collected from the base and walls of the TP27 excavation for validation purposes and analysed for OCPs, TRH, BTEX-N, and heavy metals.

All samples were placed directly into laboratory supplied glass jars and stored in a chilled esky prior to transfer to ARL-Eurofins, a NATA accredited laboratory. Samples were accompanied by Chain of Custody (CoC) documentation.

3 ASSESSMENT CRITERIA

The adopted assessment criteria were based on future commercial/industrial land use at the Site. On this basis, analytical results were compared to the following assessment criteria, as presented in Schedule B1 of the *National Environment Protection (Assessment of Site Contamination) Measure* (ASC NEPM) (National Environment Protection Council [NEPC], 1999), DWER's *Assessment and management of contaminated sites* (2021a), DWER's *Managing Asbestos at Construction and Demolition Waste Recycling Facilities* (2021b), and Department of Health's (DoH) *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia* (2021).

For the purposes of the main stockpile assessment, the following assessment criteria was applied:

- Ecological Investigation Levels (EIL)/Ecological Screening Levels (ESL) – Commercial/Industrial land use.
- Health Investigation Levels (HIL)/Health Screening Levels (HSL) – Commercial/Industrial land use.
- Asbestos in Soil Screening Level – D Commercial/Industrial land use.

Soil analytical data from the assessment of the low stockpiles on the Site (Aurora, 2023) were used to derive the Site-specific EILs.

For waste classification, criteria from the DWER (2019) document *Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)* were applied. The data were assessed against the following criteria.

- Contaminant Threshold (CT) values – these values are used to assess the waste classification of the subject material when ASLP data is not available or not being used. They have been included herein for initial comparison purposes.
- Concentration Limit (CL) values and ASLP concentration values – The CL and ASLP values replace the CT values when ASLP data is available to be used to assess the waste classification of the subject material when being considered for disposal off-Site to a licensed landfill.

4 RESULTS

4.1 Observations

A photograph log showing Site conditions and materials in the Main Stockpile is presented in Attachment 3. The Main Stockpile was comprised of fine to coarse grained sand and inert C&D wastes (concrete, brick, metal, wood, tile, PVC, electronic cables, and assorted plastics) and other waste, such as textiles (Attachment 3 – 1 and 2). Other wastes noted in the inspection included isolated fragments of fibre cement PACM and consequently representative samples were collected (Attachment 3 – 3). All of the fibre cement PACM was in good, bonded condition and fragment sizes ranged from 3 x 1cm to 15 x 8cm (see Table A for details). Fibre cement PACM was mostly flat, except for the largest fragment, which was curved and appeared to be from a pipe. No staining or odours indicating

contamination were noted in the test pits. There were no items such as batteries, drums, CCA treated timber observed in the test pits or across the surface.

The stockpiled material previously excavated from the TP27 area was situated on top of the main stockpile (Attachment 3 – 4). The base and walls of the excavation around TP27 was situated on the southern side of the main stockpile (Attachment 3 – 4). Additionally, timber was noted to be present throughout the Main Stockpile and in the vicinity of the TP27 excavated area (Attachment 3 – 5).

4.2 ANALYTICAL RESULTS

Analytical results are tabulated in Attachment 4 and laboratory documentation is provided in Attachment 5.

4.2.1 Main Stockpile

Heavy Metals

Concentrations of heavy metals were generally above the laboratory Limit of Reporting (LOR) and below the adopted assessment criteria (with exceptions). Tabulated metals results are included in Attachment 4 – Table 1 and summary of the results is presented below.

- Concentrations of arsenic ranged from below the LOR of 2mg/kg in multiple samples to 4.5mg/kg (TP35 4.9-5.0). No samples had arsenic concentrations above any assessment criteria.
- Concentrations of cadmium ranged from below the LOR of 0.1mg/kg in several samples to 0.9mg/kg (TP31 5.9-6.0). No samples had cadmium concentrations above any assessment criteria.
- Concentrations of chromium (total) ranged from 5.0mg/kg (TP32 6.4-6.5) to 8.4mg/kg (TP35 4.9-5.0). No samples had chromium (total) concentrations above any assessment criteria.
- Concentrations of copper ranged from 6.1mg/kg (TP36 4.9-5.0) to 20mg/kg (TP32 6.4-6.5). No samples had copper concentrations above any assessment criteria.
- Concentrations of lead ranged from 8.2mg/kg (TP37 6.9-7.0) to 87mg/kg (TP37 3.9-4.0). No samples had lead concentrations above any assessment criteria.
- Concentrations of mercury ranged from below the LOR of 0.02mg/kg (TP37 6.9-7.0) to 0.38mg/kg (TP34 2.9-3.0). No samples had mercury concentrations above any assessment criteria.
- Concentrations of nickel ranged from below the LOR of 1mg/kg (TP37 3.9-4.0) to 2.8mg/kg (TP34 2.9-3.0). No samples had nickel concentrations above any assessment criteria.
- Concentrations of zinc ranged from 45mg/kg (TP37 6.9-7.0) to 660mg/kg (TP34 2.9-3.0). The following samples had zinc concentrations that exceeded the EIL for commercial/industrial land use of 210mg/kg: TP31 5.9-6.0; TP32 3.9-4.0; TP34 2.9-3.0; and TP35 4.9-5.0. No results exceeded the HIL for commercial/industrial land use.

TRHs and BTEX-N

Tabulated TRH and BTEX-N results are presented in Attachment 4 – Table 2.

All concentrations of BTEX-N and TRH F1, F2, and F4 in all samples were below the LOR. Concentrations of TRH F3 ranged from below the LOR to 150mg/kg (TP37 3.9-4.0). No adopted assessment criteria for BTEX-N or TRH were exceeded.

OCPs

Tabulated OCP results are included in Attachment 4 – Table 3.

Concentrations of all OCPs in all samples were below the laboratory LOR, except for dieldrin. The maximum detected concentration of dieldrin was 0.56mg/kg (TP34 2.9-3.0). Thus, no adopted assessment criteria for OCPs were exceeded.

4.2.2 Bulk Asbestos Identification

Four samples representative of identified PACM were submitted for bulk asbestos identification analysis (Attachment 5). Three samples were encountered within TPs, and one sample (comprising five fragments) was collected from the stockpile surface during a walkover (Table A; Attachment 3 – 4). All samples collected were found to contain asbestos by the laboratory (Lifetree Environmental).

TABLE A: BULK ASBESTOS IDENTIFICATION RESULTS

SAMPLE ID	LOCATION	DEPTH (m bgl)	DESCRIPTION	WEIGHT (G)
PACM1	TP31	5.0-6.0	1x bonded fragment in good condition. 3 x 2cm	3
PACM2	TP33	2.0-3.0	2x bonded fragments in good condition. 7 x 5cm	23
PACM3	TP34	0-1.0	1x bonded fragment in good condition. 5 x 2cm	8
PACM4	Stockpile Surface	Surface	5x bonded fragments in good condition. 3 x 1cm to 15 x 8cm	118

4.2.3 TP27 Waste Classification

Tabulated waste classification results for TP27 stockpile samples TP27-SP1–TP27-SP4 are included in Attachment 4 – Tables 4–8.

All the heavy metals (arsenic, cadmium, chromium (total), copper, lead, mercury, nickel and zinc) were detected at concentrations greater than the LOR. All metal concentrations were below the upper limit of the CT1/CT2 waste classification criteria except for lead concentrations. All samples had concentrations of lead that exceeded the CT1/CT2 criterion and three samples had concentrations of lead that exceeded the CT3 criterion. All samples were consequently submitted for ASLP analysis for lead using DI water as the reagent fluid. All lead concentrations were below the CL1/CL2 and ASLP1/ASLP2 assessment criteria.

No concentrations of BTEX-N compounds, TRHs, or TPHs exceeded the LOR, and as such did not exceed the CL1/CL2 waste classification criteria.

4.2.4 TP27 Validation

Tabulated heavy metal, TRH, BTEX-N, and OCP results for TP27 validation samples TP27-V1–TP27-V4 are presented in Attachment 4 – Tables 1-3 respectively.

The heavy metals concentrations in all samples were above the LOR, except for cadmium in TP27-V3 and nickel in TP27-V1, which had minor detections. All heavy metal concentrations in all samples were below the adopted heavy metals assessment criteria (Attachment 4 – Table 1).

All concentrations of TRH (F1-F4) and BTEX-N were below the LOR. Thus, all results were below all adopted TRH and BTEX-N assessment criteria (Attachment 4 – Table 2).

All concentrations of OCPs were below the LOR, except for minor detections of dieldrin in TP27-V3 (0.06mg/kg) and TP27-V4 (0.13mg/kg). All results were below all adopted OCP assessment criteria (Attachment 4 – Table 3).

4.3 Quality Control sample

One duplicate sample was submitted for quality control purposes (QC1). QC1 was a duplicate of TP38 5.5-6.0 and relative percentage differences (RPDs) were typically below 30% (seven RPDs were below 30%, and a further ten could not be calculated as both primary and duplicate results were below the LOR), with the below exceptions (Attachment 4 – Tables 1-3). Overall, the data is considered suitable.

- **Lead:** RPD = 34%; this represents a minor exceedance of the 30% RPD limit and is likely caused by the heterogenous nature of stockpile material.
- **Zinc:** RPD = 37%; this represents a minor exceedance of the 30% RPD limit and is likely caused by the heterogenous nature of stockpile material.
- **Dieldrin:** RPD = 64%; this is likely caused by the heterogenous nature of stockpile material and may be accentuated by results being less than 10x the LOR.
- **Aldrin and Dieldrin (total):** RPD = 64%; as above, this is likely caused by the heterogenous nature of stockpile material and may be accentuated by results being less than 10x the LOR.

5 DISCUSSION

The material within the assessed stockpiles was generally consistent with the findings of the previous limited assessment. However, this inspection identified a greater quantity of electronic cables and a small quantity of fibre cement ACM. ACM was visually identified during the walkover inspection and also observed in three TP locations within the Main Stockpile. It is likely that ACM was identified in the Main Stockpile during this Site Investigation, but not in earlier investigations (e.g., Aurora, 2024), due to recentre-working of the Main Stockpile, which removed surface vegetation that may have obscured fragments, and exposed slightly deeper sections where the small ACM fragments may have migrated downward over time.

All suspected ACM fragments were collected during the walkover and while sampling test pit spoil. These materials were removed from Site and confirmed to contain asbestos by an accredited laboratory (Lifetree Environmental). The fibre cement fragments that were found were in good, bonded condition and there was no evidence of bulk asbestos wastes, such as stacks of fence sheeting, pipes or building cladding. The total mass of ACM recovered was approximately 152g (Attachment 5).

Using the volume of ACM identified during the walkover and test pitting, an estimate of the weight/weight% (w/w%) of ACM within the Main Stockpile was compared to relevant assessment criteria, in lieu of being able to collect representative 10L soil samples for sieving from the test pits. In accordance with the *Managing Asbestos at Construction and Demolition Waste Recycling Facilities* (DWER, 2021b), the published guidelines for asbestos in recycled C&D products is 10mg/kg (0.001% by

weight). The commercial/industrial land use screening asbestos criteria presented in Department of Health (DoH, 2021) is w/w% 500mg/kg (0.05% by weight). Based on survey data from 2020, the estimated volume of the Main Stockpile is approximately 20,000m³ (Aurora, 2024). At an average density of 1.6t/m³ (conservative assumption given material is mixture of sand and C&D materials), there is approximately 32,000 tonnes of material (i.e., 32,000,000kg) in the stockpile. The extrapolated acceptable amount of asbestos, equivalent to the 10mg/kg and 500mg/kg guidelines, would be 320kg and 16,000kg respectively¹. Due to the limited nature of the stockpile assessment, it is not possible to definitively confirm the volume of ACM within the stockpile, however observations suggest that it is likely to be far less than 320kg (and thus 16,000kg). The stockpiled materials are therefore considered not likely to have asbestos above 500mg/kg criterion and are unlikely to pose a health risk under the commercial/industrial site setting.

Aurora has reviewed an Environmental Management Plan (EMP) that has been prepared for the Site, which includes dust and air quality control measures. The supervision and control measures specified in the EMP are considered generally appropriate given the minor amount of asbestos likely to be present. However, it is recommended the EMP is amended to include the deployment and operation of at least three PM₁₀ airborne particulate monitors (DusTrak type) to provide further assurance on dust and air quality control.

Zinc above the Site-specific EIL in some samples and absence of other heavy metals and contaminants above assessment criteria is consistent with the Limited Assessment (Aurora, 2024). No arsenic, chromium, or copper concentrations were above the EIL as identified in TP27 during the Limited Assessment (Aurora, 2024). The presence and concentrations of zinc in the soil within the Main Stockpile is not considered to pose a potentially unacceptable risk to terrestrial ecological receptors in the scenario when the material is re-used to construct a hardstand area for plant and equipment laydown, due to the predicted future absence of ecological receptors.

The TP27 Stockpile could remain on-Site given that all samples contained concentrations of all analytes below the HIL/EIL assessment criteria, noting that there is potential for asbestos to be present. Alternately, the material could be disposed of as Class 2/Special Waste Type 1 (due to presence of timber and [possible/likely] minor ACM). None of the validation samples taken from the TP27 excavated area within the Main Stockpile exceeded any assessment criteria.

6 CONCLUSIONS AND RECOMMENDATIONS

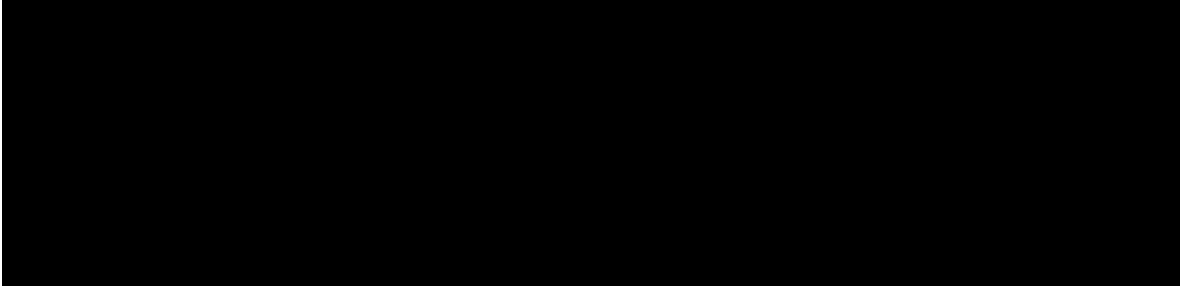
Based on the results of the additional investigation undertaken, the following conclusions are made.

- The Main Stockpile does not appear to contain asbestos, heavy metals, petroleum hydrocarbons or OCPs at levels which would constitute contamination on a commercial/industrial site. A limited number of soil samples contain elevated concentrations of zinc above commercial/industrial EILs. However, these may not necessarily represent an unacceptable risk to ecological receptors given the crushed and screened material will be placed as fill above the water table and beneath an asphalt hardstand.

¹ Fibre cement products typically contain up to 15% asbestos. This has not been taken account into the estimated amounts of ACM presented given the purpose is for an indicative approximation only. If a proportion of 15% was considered it would increase the amount of ACM that would need to be present to equate to the referenced concentrations of asbestos.

- Despite to the confirmed presence of minor amounts of asbestos containing materials within the Main Stockpile, the crushed and screened material is considered suitable to be re-used to construct a hardstand area on the Site, subject to the supervision, management and monitoring measures specified in the EMP being adequately implemented.
- The TP27 Stockpile may remain on-Site or be disposed of as Class 2/Special Waste Type 1.

For and on behalf of Aurora Environmental,



Experienced Environmental Scientist

Principal Environmental Scientist (Director)

ATTACHMENTS:

1. Figure 1 – Main Stockpile Sampling Locations
2. Test Pit Soil Logs
3. Photograph Log
4. Tables
 - a. Table 1 – Heavy Metals Results
 - b. Table 2 – BTEX-N and TRH Results
 - c. Table 3 – OCP Results
 - d. Table 4 – Metals Results (Waste Classification)
 - e. Table 5 – Leachable Metals Results (Waste Classification)
 - f. Table 6 – BTEX-N Results (Waste Classification)
 - g. Table 7 – Leachable BTEX-N Results (Waste Classification)
 - h. Table 8 – TPH Speciation Results (Waste Classification)
5. Laboratory Documentation

7 REFERENCES

Aurora Environmental (Aurora) (2023) 766 King Road, Oldbury: Limited Stockpile Assessment.

Aurora Environmental (Aurora) (2024) 766 King Road, Oldbury: Limited Assessment of the Main Stockpile and Wood Stockpile.

Department of Health (DoH) (2021) Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia.

Department of Water and Environmental Regulation (2021a) Assessment and Management of Contaminated Sites – Contaminated Sites Management Series.

Department of Water and Environmental Regulation (2021b) Managing Asbestos at Construction and Demolition Waste Recycling Facilities.

National Environment Protection Committee (1999) National Environmental Protection (Assessment of Site Contamination) Measure, as amended 2013.

DISCLAIMER

This document has been produced in accordance with and subject to an agreement between Aurora Environmental (**“Aurora”**) and the client for whom it has been prepared (**“Client”**). It is restricted to those issues that have been raised by the Client in its engagement of Aurora and prepared using the standard of skill and care ordinarily exercised by Environmental / Occupational Health and Safety consultants in the preparation of such documents.

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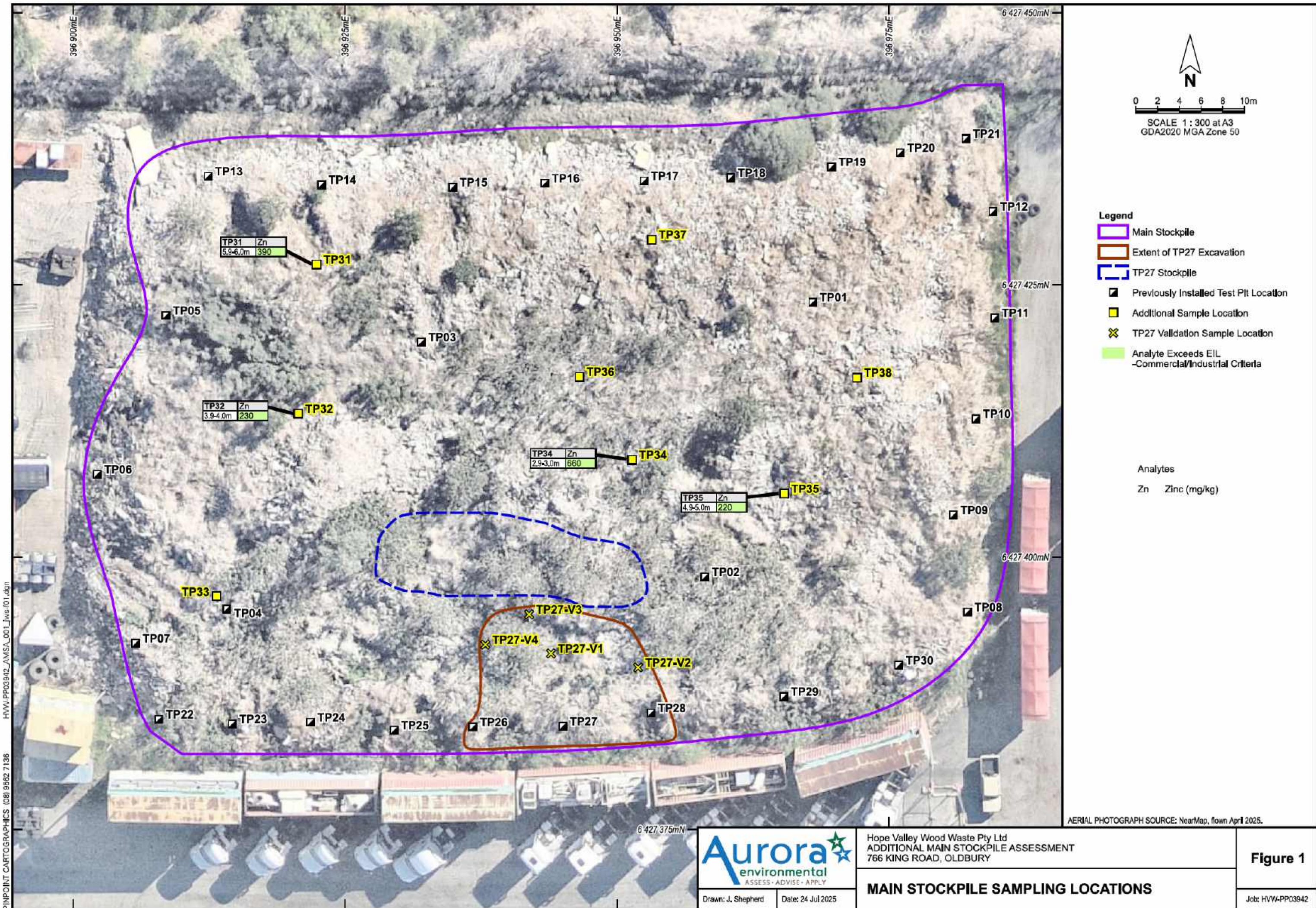
QUALITY ASSURANCE

Aurora Environmental has implemented a comprehensive range of quality control measures on all aspects of the company's operation.

An internal quality review process has been applied to each project task undertaken by us. Each document is carefully reviewed and signed off by senior members of the consultancy team prior to issue to the client.

ATTACHMENT 1

Figure 1 – Main Stockpile Sampling Locations



ATTACHMENT 2

Test Pit Soil Logs

Test Pit No: 31				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 6.5m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-6.5	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables; electronic circuit boards.	TP31 0-0.1 TP31 1.9-2.0 TP31 3.9-4.0 TP31 5.9-6.0	PACM1 identified at 5.0-6.0m bgl. 1x fibre cement fragment in good, bonded condition. 3g. No stains or odours.
Terminated at 6.5m depth				
				

Test Pit No: 32				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 6.5m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-6.5	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables; electronic circuit boards.	TP32 0.5-0.6 TP32 0.9-1.0 TP32 3.9-4.0 TP32 6.4-6.5	No PACM identified. No stains or odours.
Terminated at 6.5m depth				
				

Test Pit No: 33				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 5.5m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-5.5	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables.	TP33 0.5-0.6 TP33 1.9-2.0 TP33 2.9-3.0 TP33 3.9-4.0 TP33 4.9-5.0	PACM2 identified at 2.0-3.0m bgl. 2x fibre cement fragments in good, bonded condition. 23g. No stains or odours.
Terminated at 5.5m depth				
				

Test Pit No: 34				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 7.0m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-7.0	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables.	TP34 0.9-1.0 TP34 2.9-3.0 TP34 4.9-5.0 TP34 6.9-7.0	PACM3 identified at 0-1.0m bgl. 1x fibre cement fragment in good, bonded condition. 15g. No stains or odours.
Terminated at 7.0m depth				
				

Test Pit No: 35				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 7.0m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-7.0	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables.	TP35 0-0.1 TP35 0.9-1.0 TP35 2.9-3.0 TP35 4.9-5.0 TP35 6.9-7.0	No PACM identified. No stains or odours.
Terminated at 7.0m depth				
				

Test Pit No: 36				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 7.0m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-7.0	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables.	TP36 0-0.1 TP36 0.9-1.0 TP36 2.9-3.0 TP36 4.9-5.0 TP36 6.9-7.0	No PACM identified. No stains or odours.
Terminated at 7.0m depth				
				

Test Pit No: 37				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 7.0m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-7.0	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables.	TP37 0-0.1 TP37 1.9-2.0 TP37 3.9-4.0 TP37 5.9-6.0 TP37 6.9-7.0	No PACM identified. No stains or odours.
Terminated at 7.0m depth				
				

Test Pit No: 38				
Client: Hope Valley Wood Waste Pty Ltd. Project: Additional Main Stockpile Assessment Location: 766 King Road, Oldbury Project Number: HVW-PP03942			Date Commenced: 30/06/2025 Date Completed: 30/06/2025 Logged By: VV Checked By: BD	
Excavation Co: Hope Valley Wood Waste Pty Ltd. Operator: David Water Strike if Any: N/A			Excavation Method: 20T Excavator Weather: Overcast / Rainy Total Depth of Hole: 7.0m	
Depth (m bgs)	Symbol (USCS)	LITHOLOGICAL DESCRIPTIONS (Soil Name, Colour, Plasticity, Particle Characteristics, Moisture, Secondary Soil Components, % Proportion, Minor Components, Moisture, Origin, Additional Observations)	Sample ID	Comments
0-7.0	FILL	SAND – Grey to brown, fine to coarse grained, poorly graded, dry. 50–70% construction and demolition waste including: brick; concrete (slabs and fragments); metal sheeting; timber; geofabric; plastic; PVC; cables; electronic circuit boards.	TP38 0-0.1 TP38 0.9-1.0 TP38 3.9-4.0 TP38 5.5-6.0 TP38 6.9-7.0	QC1 is duplicate of TP38 5.5-6.0. No PACM identified. No stains or odours.
Terminated at 7.0m depth				
				

Aurora Environmental has described soils with reference to AS1726:2017, consistent with requirements of the National Environmental Protection (Assessment of Site Contamination) Measure. Aurora Environmental does not provide geotechnical assessment or engineering advice and the soil descriptions should not be relied upon for these purposes in any form.

ATTACHMENT 3

Photograph Log

Photograph 1: Surface conditions of the Main Stockpile.



Photograph 2: Surface conditions of the Main Stockpile, note 20t excavator in background.



Photograph 3: Surface PACM fragments, identified during stockpile walkover.



Photograph 4: TP27 stockpiled material (centre) and TP27 excavated area (background, left).



Photograph 5: TP27-V2 location, showing timber within Main Stockpile and in vicinity of TP27 excavated area.



ATTACHMENT 4

Tables

Table 1
Soil Analytical Results - Heavy Metal Results
766 King Road, Oldbury

		Metals							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg							
EQL		2	0.1	1	1	1	0.02	1	5
NEPM 2013 Table 18(5) Generic EIL - Comm/Ind		160	NE	310	85	1800	NE	55	210
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil		3000	900	NE	240000	1500	730	6000	400000
Field ID	Date								
TP27-SP1	30-Jun-25	2.4	0.1	6.1	7.6	27	0.04	1.3	120
TP27-SP2	30-Jun-25	<2	<0.1	6.2	6.9	17	0.03	1.1	95
TP27-SP3	30-Jun-25	3.5	0.1	8.5	8.6	44	0.05	1.6	210
TP27-SP4	30-Jun-25	4.7	0.1	9.9	11	22	0.05	3.4	110
TP27-V1	30-Jun-25	3.0	0.6	8.5	4.4	18	0.03	<1	90
TP27-V2	30-Jun-25	15	0.1	20	18	13	0.03	2.5	55
TP27-V3	30-Jun-25	3.8	<0.1	9.0	5.5	12	0.03	1.3	120
TP27-V4	30-Jun-25	14	0.2	21	15	31	0.05	1.9	120
TP31 5.9-6.0	30-Jun-25	2.3	0.9	7.6	18	51	0.07	1.8	390
TP32 3.9-4.0	30-Jun-25	2.6	0.2	6.6	10	26	0.04	2.4	230
TP32 6.4-6.5	30-Jun-25	<2	0.1	5.0	20	20	0.02	1.3	97
TP33 2.9-3.0	30-Jun-25	3.5	0.1	8.1	7.8	22	0.04	1.4	210
TP34 2.9-3.0	30-Jun-25	2.9	0.1	7.5	14	21	0.38	2.8	660
TP34 6.9-7.0	30-Jun-25	4.3	<0.1	7.0	7.7	36	0.03	1.8	74
TP35 4.9-5.0	30-Jun-25	4.8	0.3	8.4	10	20	0.04	1.9	220
TP36 4.9-5.0	30-Jun-25	<2	0.2	5.3	6.1	16	0.03	1.5	150
TP37 3.9-4.0	30-Jun-25	3.4	0.2	6.3	8.1	87	0.06	<1	90
TP37 6.9-7.0	30-Jun-25	3.6	<0.1	7.4	7.5	8.2	<0.02	1.2	45
TP38 3.9-4.0	30-Jun-25	2.9	0.1	7.3	12	28	0.05	1.5	190
TP38 5.5-6.0	30-Jun-25	2.5	0.1	6.6	7.9	27	0.04	1.4	140
QC01	30-Jun-25	2.8	0.1	7.0	9.5	38	0.04	1.8	96
TP38 5.5-6.0	30-Jun-25	2.5	0.1	6.6	7.9	27	0.04	1.4	140
RPD %	-	11%	0%	6%	18%	34%	0%	25%	37%

References:

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 1999).

Notes and Abbreviations:

LOR - limit of Reporting

HIL - Health Investigation Level

mg/kg - milligram per kilogram

EIL - Ecological Investigation Level

NE - Not Established

Table 2
Soil Analytical Results - Petroleum Hydrocarbons
766 King Road, Oldbury

		BTEXN							TRH			
		Naphthalene	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	Xylene (o)	Xylene Total	C6-C10 minus BTEX (F1)	>C10-C16 Fraction minus Naphthalene (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.5	0.1	0.1	0.1	0.2	0.1	0.3	20	50	<100	<100
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand - >=0m, <1m		NL	3	NL	NL	NL	NL	230	260	NL	NL	NL
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind		370	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil - >=0m, <2m		NE	75	135	165	NE	NE	180	215	170	1,700	3,300
Field ID	Date											
TP27-SP1	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-SP2	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-SP3	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-SP4	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-V1	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-V2	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-V3	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP27-V4	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP31 5.9-6.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP32 3.9-4.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	120	<100
TP32 6.4-6.5	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP33 2.9-3.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	100	<100
TP34 2.9-3.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	130	<100
TP34 6.9-7.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP35 4.9-5.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP36 4.9-5.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP37 3.9-4.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	150	<100
TP37 6.9-7.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	<100	<100
TP38 3.9-4.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	120	<100
TP38 5.5-6.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	130	<100
QC01	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	130	<100
TP38 5.5-6.0	30-Jun-25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<20	<50	130	<100
RPD %	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	0%	NC

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 1999).

Notes and Abbreviations:

LOR - limit of Reporting

mg/kg - milligram per kilogram

ESL - Ecological Screening Level

HSL - Health Screening Level

BTEXN - Benzene, Toluene, Ethylbenzene, Xylenes, Naphthalene

TRH - Total Recoverable Hydrocarbons

NC - Not Calculatable

NE - Not Established

NL - Not Limiting

Table 3
Soil Analytical Results - Organochlorine Pesticides
766 King Road, Oldbury

		Organochlorine Pesticides																						
		Chlordanes (Total)	p,p'-DDD	p,p'-DDE	p,p'-DDT	p,p'-HCH	γ-HCH	δ-HCH	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	p,p'-HCH (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene	Aldrin and Dieldrin (Total)	DDT + DDE + DDD (Total)	
EQL		0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind		NE	NE	NE	640	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil		590	NE	NE	NE	NE	5	NE	NE	NE	2000	2000	NE	100	NE	NE	NE	50	NE	NE	2,500	170	65	3,600
Field ID	Date																							
TP27-SP1	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.11	<0.05
TP27-SP2	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.36	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.36	<0.05
TP27-SP3	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.18	<0.05
TP27-SP4	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
TP27-V1	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
TP27-V2	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
TP27-V3	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.06	<0.05
TP27-V4	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.13	<0.05
TP31 5.9-6.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.33	<0.05
TP32 3.9-4.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.31	<0.05
TP32 6.4-6.5	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
TP33 2.9-3.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.20	<0.05
TP34 2.9-3.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.56	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.56	<0.05
TP34 6.9-7.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.11	<0.05
TP35 4.9-5.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.22	<0.05
TP36 4.9-5.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.08	<0.05
TP37 3.9-4.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.33	<0.05
TP37 6.9-7.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
TP38 3.9-4.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.24	<0.05
TP38 5.5-6.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.31	<0.05
QC01	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.16	<0.05
TP38 5.5-6.0	30-Jun-25	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	0.31	<0.05
RPD %	-	NC	NC	NC	NC	NC	NC	NC	NC	64%	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	64%	NC

References

1. Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (NEPC, 2013).

Notes and Abbreviations

LOR - Limit of Reporting

mg/kg - milligram per kilogram

EIL - Ecological Investigation Level

NC - Not Calculable

HIL - Health Investigation Level

ID - Identification

NE - Not Established

RPD - Relative Percentage Difference

NA - Not Analysed

Table 4
Soil Analytical Results - Metals (Waste Classification)
766 King Road, Oldbury

Analyte		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Units		mg/kg							
LOR		2	0.1	1	1	1	0.1	1	1
Upper CT for Class 1/2		14	0.4	10	50,000	2	0.2	4	50,000
Upper CT for Class 3		140	4	100	100,000	20	2	40	100,000
Upper CT for Class 4		1,400	40	1,000	200,000	200	20	400	200,000
Upper CL for Class 1/2		500	100	500 [^]	NA	1,500	75	3,000	NA
Sample ID	Date Sampled								
TP27-SP1	30-Jun-25	2.4	0.1	6.1	7.6	27	0.04	1.3	120
TP27-SP2	30-Jun-25	< 2	< 0.1	6.2	6.9	17	0.03	1.1	95
TP27-SP3	30-Jun-25	3.5	0.1	8.5	8.6	44	0.05	1.6	210
TP27-SP4	30-Jun-25	4.7	0.1	9.9	11	22	0.05	3.4	110

References:

1. Department of Water and Environmental Regulation (2019) Landfill Waste Classification and Waste definitions 1996 (as amended 2019)

Abbreviations:

LOR - limit of Reporting

mg/kg - milligram per kilogram

NE - Not Established

CT - Contamination Threshold

CL - Contamination Limits

NA - Not applicable

Notes:

[^] - Chromium waste classification criteria assuming hexavalent (conservative)

Table 5
Soil Analytical Results - Leachable Metals (Waste Classification)
766 King Road, Oldbury

Analyte		Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
Units		mg/L							
LOR		0.05	0.01	0.01	0.01	0.03	0.00005	0.02	0.02
Upper Limit of ASLP 1/2		0.5	0.1	0.5	NA	0.1	0.01	0.2	NA
Upper Limit of ASLP 3		5	1	5	NA	1	0.1	2	NA
Upper Limit of ASLP 4		50	10	50	NA	10	1	20	NA
Sample ID	Date Sampled								
TP27-SP1	30-Jun-25	0.004	< 0.0002	< 0.001	0.005	< 0.001	< 0.0001	< 0.001	0.042
TP27-SP2	30-Jun-25	0.002	< 0.0002	< 0.001	0.004	< 0.001	< 0.0001	< 0.001	0.046
TP27-SP3	30-Jun-25	0.005	< 0.0002	0.001	0.003	0.001	< 0.0001	< 0.001	0.017
TP27-SP4	30-Jun-25	0.007	< 0.0002	0.001	0.004	< 0.001	< 0.0001	< 0.001	0.009

References:

1. Department of Water and Environmental Regulation (2019) Landfill Waste Classification and Waste definitions 1996 (as amended 2019)

Abbreviations:

NE - Not Established
mg/L - milligram per litre

NA - Not Applicable
ID - Identification

LOR - Limit of Reporting
ASLP - Australian Standard Leachate Procedure

Table 6
Soil Analytical Results - BTEX-N and TRH (Waste Classification)
766 King Road, Oldbury

Analyte		BTEXN					TRH					
		Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Naphthalene	TRH C6-9	TRH C6-10 minus BTEX (F1)	TRH C>10-16	TRH C>10-16 minus Naphthalene (F2)	TRH C>16-34 (F3)	TRH C>34-40 (F4)
Units		mg/kg										
LOR		0.2	0.5	1	3	1	25	25	50	50	100	100
Upper CT for Class 1/2		0.2	160	60	120	NE	NE	NE	NE	NE	NE	NE
Upper CT for Class 3		20	1,600	600	1,200	NE	NE	NE	NE	NE	NE	NE
Upper CT for Class 4		200	16,000	6,000	12,000	NE	NE	NE	NE	NE	NE	NE
Upper CL for Class 1/2		18	518	1,080	1,800	NE	2,800	NE	NE	NE	NE	NE
Upper CL for Class 3		180	5,180	10,800	18,000	NE	28,000	NE	NE	NE	NE	NE
Upper CL for Class 4		720	NE	NE	NE	NE	112,000	NE	NE	NE	NE	NE
Sample ID	Date Sampled											
TP27-SP1	30-Jun-25	< 0.1	< 0.1	< 0.1	< 0.3	< 0.5	< 20	< 20	< 50	< 50	< 100	< 100
TP27-SP2	30-Jun-25	< 0.1	< 0.1	< 0.1	< 0.3	< 0.5	< 20	< 20	< 50	< 50	< 100	< 100
TP27-SP3	30-Jun-25	< 0.1	< 0.1	< 0.1	< 0.3	< 0.5	< 20	< 20	< 50	< 50	< 100	< 100
TP27-SP4	30-Jun-25	< 0.1	< 0.1	< 0.1	< 0.3	< 0.5	< 20	< 20	< 50	< 50	< 100	< 100

References:

1. Department of Water and Environmental Regulation (2019) Landfill Waste Classification and Waste definitions 1996 (as amended 2019)

Notes & Abbreviations:

LOR - limit of Reporting

mg/kg - milligram per kilogram

NE - Not Established

NL - Not Limiting

* Denotes assessment criteria for C16-C35 petroleum hydrocarbons (aromatics)

CT - Contamination Threshold

CL - Contamination Limits

TRH - Total Recoverable Hydrocarbons

BTEXN - Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene

Table 7
Soil Analytical Results - Leachable BTEX-N (Waste Classification)
766 King Road, Oldbury

Analyte		Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Naphthalene
Units		mg/L				
LOR		0.001	0.001	0.001	0.003	0.001
Upper Limit of ASLP 1/2		0.01	8	3	6	NE
Upper Limit of ASLP 3		0.1	80	30	60	NE
Upper Limit of ASLP 4		720	800	300	600	NE
Sample ID	Date Sampled					
TP27-SP1	30-Jun-25	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001
TP27-SP2	30-Jun-25	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001
TP27-SP3	30-Jun-25	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001
TP27-SP4	30-Jun-25	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001

References:

1. Department of Water and Environmental Regulation (2019) Landfill Waste Classification and Waste definitions 1996 (as amended 2019)

Abbreviations:

NE - Not Established NA - Not Applicable LOR - Limit of Reporting
mg/L - milligram per litre ID - Identification ASLP - Australian Standard Leachate Procedure

Table 8
Soil Analytical Results - TPH Speciation (Waste Classification)
766 King Road, Oldbury

Analyte		TPH >C16-C35 Aliphatic	TPH >C16-C35 Aromatic
Units		mg/kg	
LOR		25	100
Upper CL for Class 1/2		28,000	450
Upper CL for Class 3		280,000	4,500
Upper CL for Class 4		NE	18,000
Sample ID	Date Sampled		
TP27-SP1	30-Jun-25	< 0.4	< 0.4
TP27-SP2	30-Jun-25	< 0.4	< 0.4
TP27-SP3	30-Jun-25	< 0.4	< 0.4
TP27-SP4	30-Jun-25	< 0.4	< 0.4

References:

1. Department of Water and Environmental Regulation (2019) Landfill Waste Classification and Waste definitions 1996 (as amended 2019)

Abbreviations:

LOR - limit of Reporting

mg/kg - milligram per kilogram

NE - Not Established

TPH - Total Petroleum Hydrocarbons

CL - Contamination Limits

ATTACHMENT 5

Laboratory Documentation

Date/Time: 1/7/25 @ 14:37
 Courier Drop Off
 Attempt to Chill (Y) N / NA
 Temperature: [REDACTED]
 Signature: [REDACTED]

Sheet 1 of 1

Purchase Order No.:

Notes/LOR/ Special Requests

uncontrolled when printed

CERTIFICATE FOR THE QUALITATIVE IDENTIFICATION OF ASBESTOS AND OTHER FIBRES

Client: Aurora Environmental
Contact Name: Pawel Olszewski
Client Address: Dilhorn House, 2 Bulwer St, Perth
Email: info@auroraenvironmental.com.au
Tel.: (08) 9227 2600

Certificate No.: BA27493 (**Issue Date:** 09.07.25)
Date Sampled: 30.06.25
Sampled by: Venkat Vallurapalli
Date Received: 07.07.25
Date Analysed: 08.07.25

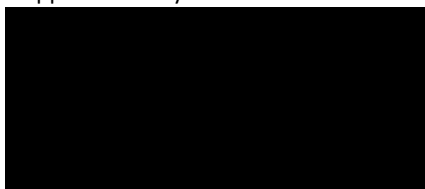
Test Method: All analysis is carried out using the PLM and DS method as detailed in accordance with AS4964-2004 'Method for the qualitative identification of asbestos in bulk samples' and Lifetree Environmental Pty Ltd in-house Procedures Manual 1.

Notes: The results contained within this report relate only to sample(s) submitted for testing, in the condition received at the laboratory. No responsibility is accepted for errors, which may have arisen during sampling, packaging or transportation of samples by external clients. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. The reporting limit of AS4964-2004 is in the range of 0.01-0.1% w/w equivalent to 0.1-1g/kg.

Client Job ID: HVW-PP03942

Lab No.	Client Sample ID.	Sample Description	Sample Weight (g)	Identification Type(s)
BA27493/01	TP31-PACM1	PACM – Fibre Cement	2.66g	Chrysotile Asbestos Detected Amosite Asbestos Detected Organic Fibres Detected
BA27493/02	TP33-PACM2	PACM – Fibre Cement	22.72g	Chrysotile Asbestos Detected Amosite Asbestos Detected
BA27493/03	TP34-PACM3	PACM – Fibre Cement	8.14g	Chrysotile Asbestos Detected
BA27493/04	PACM4	PACM – Fibre Cement	117.52g	Chrysotile Asbestos Detected Amosite Asbestos Detected Crocidolite Asbestos Detected

Approved Analyst:



NATA Accredited Laboratory Number: 19181
Accredited for compliance with ISO/IEC 17025 - Testing.
This test report shall not be reproduced, except in full,
without written approval from Lifetree Environmental
Pty Ltd.

Eurofins ARL Pty Ltd Eurofins Environment Testing Australia Pty Ltd

ABN: 91 05 0159 898

ABN: 50 005 085 521

Perth	Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle	Auckland	Auckland (Focus)	Christchurch	Tauranga
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370 & 2554	6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780	1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079	35 O'Rorke Road Penrose Auckland 1061 +64 9 526 4551 IANZ# 1327	Unit C1/4 Pacific Rise Mount Wellington Auckland 1061 +64 9 525 0568 IANZ# 1308	43 Detroit Drive Rolleston Christchurch 7675 +64 3 343 5201 IANZ# 1290	1277 Cameron Road Gate Pa Tauranga 3112 +64 9 525 0568 IANZ# 1402

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Sample Receipt Advice

Company name: Aurora Environmental (Perth) P/L
Contact name: [REDACTED]
Project name: Not provided
Project ID: MSG-PP03942
Turnaround time: 5 Day
Date/Time received: Jul 1, 2025 2:37 PM
Eurofins reference: 1239460

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- N/A Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[REDACTED]

Results will be delivered electronically via email to Geri Pethebridge - geri.pethebridge@auroraenvironmental.com.au.

Note: A copy of these results will also be delivered to the general Aurora Environmental (Perth) P/L email address.



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Company Name: Aurora Environmental (Perth) P/L
Address: Dilhorn House 2 Bulwer St
Perth
WA 6000

Project Name:
Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	TP31 5.9-6.0	Jun 30, 2025		Soil	L25-JI0005222	X		X		X	X	
2	TP32 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005223	X		X		X	X	
3	TP32 6.4-6.5	Jun 30, 2025		Soil	L25-JI0005224	X		X		X	X	
4	TP33 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005225	X		X		X	X	
5	TP34 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005226	X		X		X	X	
6	TP35 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005227	X		X		X	X	
7	TP36 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005228	X		X		X	X	
8	TP37 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005229	X		X		X	X	
9	TP37 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005230	X		X		X	X	
10	TP38 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005231	X		X		X	X	
11	TP38 5.5-6.0	Jun 30, 2025		Soil	L25-JI0005232	X		X		X	X	
12	QC1	Jun 30, 2025		Soil	L25-JI0005233	X		X		X	X	
13	TP27-V1	Jun 30, 2025		Soil	L25-JI0005234	X		X		X	X	
14	TP27-V2	Jun 30, 2025		Soil	L25-JI0005235	X		X		X	X	



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Company Name: Aurora Environmental (Perth) P/L
Address: Dilhorn House 2 Bulwer St
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Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Project Name:
Project ID: MSG-PP03942

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
15	TP27-V3	Jun 30, 2025		Soil	L25-JI0005236	X		X		X	X	
16	TP27-V4	Jun 30, 2025		Soil	L25-JI0005237	X		X		X	X	
17	TP27-SP1	Jun 30, 2025		Soil	L25-JI0005238	X		X		X	X	X
18	TP27-SP2	Jun 30, 2025		Soil	L25-JI0005239	X		X		X	X	X
19	TP27-SP3	Jun 30, 2025		Soil	L25-JI0005240	X		X		X	X	X
20	TP27-SP4	Jun 30, 2025		Soil	L25-JI0005241	X		X		X	X	X
21	TP27-SP1	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005242		X	X	X			
22	TP27-SP2	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005243		X	X	X			
23	TP27-SP3	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005244		X	X	X			
24	TP27-SP4	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005245		X	X	X			



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Project Name:
Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
25	TP34 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005255	X		X		X	X	
Test Counts						21	4	25	4	21	21	4

Aurora Environmental (Perth) P/L
Dilhorn House 2 Bulwer St
Perth
WA 6000



NATA Accredited
Accreditation Number 2377
Site Number 2370 & 2554

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:



Report **1239460-L**
Project name
Project ID **MSG-PP03942**
Received Date Jul 01, 2025

Client Sample ID			TP27-SP1 AUS Leachate - Reagent Water L25-JI0005242 Jun 30, 2025	TP27-SP2 AUS Leachate - Reagent Water L25-JI0005243 Jun 30, 2025	TP27-SP3 AUS Leachate - Reagent Water L25-JI0005244 Jun 30, 2025	TP27-SP4 AUS Leachate - Reagent Water L25-JI0005245 Jun 30, 2025
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Naphthalene ^{N02}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	75	86	83	84
Metals M8						
Arsenic	0.001	mg/L	0.004	0.002	0.005	0.007
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	< 0.001	0.001	0.001
Copper	0.001	mg/L	0.005	0.004	0.003	0.004
Lead	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Zinc	0.005	mg/L	0.042	0.046	0.017	0.009
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	NR	NR	NR	NR
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	6.6	7.0	7.5	7.6

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
Naphthalene - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 04, 2025	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 04, 2025	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Jul 04, 2025	28 Days
AUS Leaching Procedure - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Welshpool	Jul 04, 2025	7 Days



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Eurofins Environment Testing NZ Ltd

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Company Name: Aurora Environmental (Perth) P/L
Address: Dilhorn House 2 Bulwer St
Perth
WA 6000

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Project Name:
Project ID: MSG-PP03942

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	TP31 5.9-6.0	Jun 30, 2025		Soil	L25-JI0005222	X		X		X	X	
2	TP32 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005223	X		X		X	X	
3	TP32 6.4-6.5	Jun 30, 2025		Soil	L25-JI0005224	X		X		X	X	
4	TP33 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005225	X		X		X	X	
5	TP34 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005226	X		X		X	X	
6	TP35 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005227	X		X		X	X	
7	TP36 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005228	X		X		X	X	
8	TP37 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005229	X		X		X	X	
9	TP37 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005230	X		X		X	X	
10	TP38 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005231	X		X		X	X	
11	TP38 5.5-6.0	Jun 30, 2025		Soil	L25-JI0005232	X		X		X	X	
12	QC1	Jun 30, 2025		Soil	L25-JI0005233	X		X		X	X	
13	TP27-V1	Jun 30, 2025		Soil	L25-JI0005234	X		X		X	X	
14	TP27-V2	Jun 30, 2025		Soil	L25-JI0005235	X		X		X	X	

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Site# 2370 & 2554

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Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
15	TP27-V3	Jun 30, 2025		Soil	L25-JI0005236	X		X		X	X	
16	TP27-V4	Jun 30, 2025		Soil	L25-JI0005237	X		X		X	X	
17	TP27-SP1	Jun 30, 2025		Soil	L25-JI0005238	X		X		X	X	X
18	TP27-SP2	Jun 30, 2025		Soil	L25-JI0005239	X		X		X	X	X
19	TP27-SP3	Jun 30, 2025		Soil	L25-JI0005240	X		X		X	X	X
20	TP27-SP4	Jun 30, 2025		Soil	L25-JI0005241	X		X		X	X	X
21	TP27-SP1	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005242		X	X	X			
22	TP27-SP2	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005243		X	X	X			
23	TP27-SP3	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005244		X	X	X			
24	TP27-SP4	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005245		X	X	X			



web: www.eurofins.com.au
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Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
25	TP34 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005255	X		X		X	X	
Test Counts						21	4	25	4	21	21	4

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 (<i>bis</i> -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
CRM - % Recovery									
Metals M8									
Arsenic			%	99			80-120	Pass	
Cadmium			%	101			80-120	Pass	
Chromium			%	99			80-120	Pass	
Copper			%	102			80-120	Pass	
Lead			%	103			80-120	Pass	
Nickel			%	103			80-120	Pass	
Zinc			%	104			90-110	Pass	
CRM - % Recovery									
Metals M8									
Arsenic			%	102			80-120	Pass	
Cadmium			%	101			80-120	Pass	
Chromium			%	100			80-120	Pass	
Copper			%	103			80-120	Pass	
Lead			%	103			80-120	Pass	
Nickel			%	100			80-120	Pass	
Zinc			%	102			90-110	Pass	
CRM - % Recovery									
Metals M8									
Cadmium			%	103			80-120	Pass	
Chromium			%	93			80-120	Pass	
Nickel			%	100			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Metals M8									
				Result 1					
Arsenic			L25-JI0005242	CP	%	100		75-125	Pass
Cadmium			L25-JI0005242	CP	%	99		75-125	Pass
Chromium			L25-JI0005242	CP	%	91		75-125	Pass
Copper			L25-JI0005242	CP	%	87		75-125	Pass
Lead			L25-JI0005242	CP	%	96		75-125	Pass
Mercury			L25-JI0005242	CP	%	99		75-125	Pass
Nickel			L25-JI0005242	CP	%	87		75-125	Pass
Spike - % Recovery									
Metals M8									
				Result 1					
Arsenic			L25-JI0005243	CP	%	103		75-125	Pass
Cadmium			L25-JI0005243	CP	%	104		75-125	Pass
Chromium			L25-JI0005243	CP	%	92		75-125	Pass
Copper			L25-JI0005243	CP	%	90		75-125	Pass
Lead			L25-JI0005243	CP	%	97		75-125	Pass
Mercury			L25-JI0005243	CP	%	103		75-125	Pass
Nickel			L25-JI0005243	CP	%	90		75-125	Pass
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Metals M8									
				Result 1	Result 2	RPD			
Arsenic			L25-JI0005244	CP	mg/L	0.005	0.005	8.0	30% Pass
Cadmium			L25-JI0005244	CP	mg/L	< 0.0002	< 0.0002	<1	30% Pass
Copper			L25-JI0005244	CP	mg/L	0.003	0.003	1.0	30% Pass
Mercury			L25-JI0005244	CP	mg/L	< 0.0001	< 0.0001	<1	30% Pass
Nickel			L25-JI0005244	CP	mg/L	< 0.001	< 0.001	<1	30% Pass

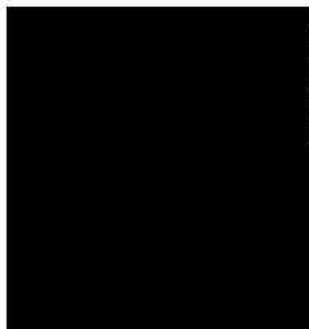
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	L25-JI0005245	CP	mg/L	0.007	0.006	2.0	30%	Pass	
Cadmium	L25-JI0005245	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	L25-JI0005245	CP	mg/L	0.001	0.001	9.0	30%	Pass	
Copper	L25-JI0005245	CP	mg/L	0.004	0.004	5.0	30%	Pass	
Lead	L25-JI0005245	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	L25-JI0005245	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	L25-JI0005245	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	L25-JI0005245	CP	mg/L	0.009	0.011	16	30%	Pass	

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within Holding Time	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
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 QA/QC acceptance criteria, and are entirely technically valid.
Q05	The matrix spike concentration is less than five times the background concentration in the sample - therefore the spike recovery cannot be determined.
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:


Analytical Services Manager
 Senior Analyst-Sample Properties
 Senior Analyst-Volatile
 Senior Analyst-Sample Properties
 Senior Analyst-Metal

General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Aurora Environmental (Perth) P/L
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NATA Accredited
Accreditation Number 2377
Site Number 2370 & 2554

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:

Report **1239460-S**
Project name
Project ID **MSG-PP03942**
Received Date Jul 01, 2025

Client Sample ID			TP31 5.9-6.0	TP32 3.9-4.0	TP32 6.4-6.5	TP33 2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005222	L25-JI0005223	L25-JI0005224	L25-JI0005225
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	51	< 50	< 50
TRH C29-C36	50	mg/kg	72	88	57	84
TRH C10-C36 (Total)	50	mg/kg	72	139	57	84
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	%	79	71	111	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)* ^{N01}	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
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	0.33	0.31	< 0.05	0.20
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP31 5.9-6.0	TP32 3.9-4.0	TP32 6.4-6.5	TP33 2.9-3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005222	L25-JI0005223	L25-JI0005224	L25-JI0005225
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.33	0.31	< 0.05	0.2
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.33	0.31	< 0.1	0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	79	89	79	97
Tetrachloro-m-xylene (surr.)	1	%	142	124	91	132
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	120	< 100	100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	120	< 100	100
Metals M8						
Arsenic	2	mg/kg	2.3	2.6	< 2	3.5
Cadmium	0.1	mg/kg	0.9	0.2	0.1	0.1
Chromium	1	mg/kg	7.6	6.6	5.0	8.1
Copper	1	mg/kg	18	10	20	7.8
Lead	1	mg/kg	51	26	20	22
Mercury	0.02	mg/kg	0.07	0.04	0.02	0.04
Nickel	1	mg/kg	1.8	2.4	1.3	1.4
Zinc	5	mg/kg	390	230	97	210
% Moisture	1	%	10	8.4	7.2	9.7

Client Sample ID			TP34 2.9-3.0	TP35 4.9-5.0	TP36 4.9-5.0	TP37 3.9-4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005226	L25-JI0005227	L25-JI0005228	L25-JI0005229
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	66	< 50	< 50	81
TRH C29-C36	50	mg/kg	88	68	60	87
TRH C10-C36 (Total)	50	mg/kg	154	68	60	168
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	%	91	89	98	84

Client Sample ID			TP34 2.9-3.0	TP35 4.9-5.0	TP36 4.9-5.0	TP37 3.9-4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005226	L25-JI0005227	L25-JI0005228	L25-JI0005229
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{*N01}	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
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	0.56	0.22	0.08	0.33
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.56	0.22	0.08	0.33
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.56	0.22	< 0.1	0.33
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	75	55	121	68
Tetrachloro-m-xylene (surr.)	1	%	89	94	101	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	130	< 100	< 100	150
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	130	< 100	< 100	150
Metals M8						
Arsenic	2	mg/kg	2.9	4.8	< 2	3.4
Cadmium	0.1	mg/kg	0.1	0.3	0.2	0.2
Chromium	1	mg/kg	7.5	8.4	5.3	6.3
Copper	1	mg/kg	14	10	6.1	8.1
Lead	1	mg/kg	21	20	16	87
Mercury	0.02	mg/kg	0.38	0.04	0.03	0.06
Nickel	1	mg/kg	2.8	1.9	1.5	< 1
Zinc	5	mg/kg	660	220	150	90
% Moisture	1	%	15	11	6.1	6.7

Client Sample ID			TP37 6.9-7.0	TP38 3.9-4.0	TP38 5.5-6.0	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005230	L25-JI0005231	L25-JI0005232	L25-JI0005233
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	53	54
TRH C29-C36	50	mg/kg	50	91	95	100
TRH C10-C36 (Total)	50	mg/kg	50	91	148	154
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	%	100	100	100	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)* ^{N01}	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
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	0.24	0.31	0.16
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.24	0.31	0.16
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.24	0.31	0.16
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	103	105	110	106
Tetrachloro-m-xylene (surr.)	1	%	107	98	105	94

Client Sample ID			TP37 6.9-7.0	TP38 3.9-4.0	TP38 5.5-6.0	QC1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005230	L25-JI0005231	L25-JI0005232	L25-JI0005233
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	120	130	130
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	120	130	130
Metals M8						
Arsenic	2	mg/kg	3.6	2.9	2.5	2.8
Cadmium	0.1	mg/kg	< 0.1	0.1	0.1	0.1
Chromium	1	mg/kg	7.4	7.3	6.6	7.0
Copper	1	mg/kg	7.5	12	7.9	9.5
Lead	1	mg/kg	8.2	28	27	38
Mercury	0.02	mg/kg	< 0.02	0.05	0.04	0.04
Nickel	1	mg/kg	1.2	1.5	1.4	1.8
Zinc	5	mg/kg	45	190	140	96
% Moisture	1	%	8.7	11	9.7	11

Client Sample ID			TP27-V1	TP27-V2	TP27-V3	TP27-V4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005234	L25-JI0005235	L25-JI0005236	L25-JI0005237
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	55	< 50
TRH C29-C36	50	mg/kg	64	62	54	77
TRH C10-C36 (Total)	50	mg/kg	64	62	109	77
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	%	72	71	90	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)* ^{N01}	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
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP27-V1	TP27-V2	TP27-V3	TP27-V4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005234	L25-JI0005235	L25-JI0005236	L25-JI0005237
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	0.06	0.13
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	0.06	0.13
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.13
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	68	112	107	108
Tetrachloro-m-xylene (surr.)	1	%	103	128	93	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Metals M8						
Arsenic	2	mg/kg	3.0	15	3.8	14
Cadmium	0.1	mg/kg	0.6	0.1	< 0.1	0.2
Chromium	1	mg/kg	8.5	20	9.0	21
Copper	1	mg/kg	4.4	18	5.5	15
Lead	1	mg/kg	18	13	12	31
Mercury	0.02	mg/kg	0.03	0.03	0.03	0.05
Nickel	1	mg/kg	< 1	2.5	1.3	1.9
Zinc	5	mg/kg	90	55	120	120
% Moisture	1	%	5.3	7.9	5.4	5.0

Client Sample ID			TP27-SP1	TP27-SP2	TP27-SP3	TP27-SP4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005238	L25-JI0005239	L25-JI0005240	L25-JI0005241
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	69	51
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	69	51
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	%	55	52	58	101
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)* ^{N01}	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
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	0.11	0.36	0.18	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.11	0.36	0.18	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.11	0.36	0.18	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	94	100	107	75
Tetrachloro-m-xylene (surr.)	1	%	89	105	102	84

Client Sample ID			TP27-SP1	TP27-SP2	TP27-SP3	TP27-SP4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25-JI0005238	L25-JI0005239	L25-JI0005240	L25-JI0005241
Date Sampled			Jun 30, 2025	Jun 30, 2025	Jun 30, 2025	Jun 30, 2025
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Metals M8						
Arsenic	2	mg/kg	2.4	< 2	3.5	4.7
Cadmium	0.1	mg/kg	0.1	< 0.1	0.1	0.1
Chromium	1	mg/kg	6.1	6.2	8.5	9.9
Copper	1	mg/kg	7.6	6.9	8.6	11
Lead	1	mg/kg	27	17	44	22
Mercury	0.02	mg/kg	0.04	0.03	0.05	0.05
Nickel	1	mg/kg	1.3	1.1	1.6	3.4
Zinc	5	mg/kg	120	95	210	110
% Moisture	1	%	2.1	1.6	7.1	2.6
A/A Split TPH Soil Waste Class						
Aliphatic >C16-C35	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Aromatic >C16-C35	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4

Client Sample ID			TP34 6.9-7.0
Sample Matrix			Soil
Eurofins Sample No.			L25-JI0005255
Date Sampled			Jun 30, 2025
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	57
TRH C10-C36 (Total)	50	mg/kg	57
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
TRH >C10-C16 less Naphthalene (F2)* ^{N01}	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20

Client Sample ID			TP34 6.9-7.0
Sample Matrix			Soil
Eurofins Sample No.			L25-JI0005255
Date Sampled			Jun 30, 2025
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05
a-HCH	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-HCH	0.05	mg/kg	< 0.05
d-HCH	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	0.11
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.11
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.11
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1
Dibutylchloredate (surr.)	1	%	132
Tetrachloro-m-xylene (surr.)	1	%	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C10-C16	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100
Metals M8			
Arsenic	2	mg/kg	4.3
Cadmium	0.1	mg/kg	< 0.1
Chromium	1	mg/kg	7.0
Copper	1	mg/kg	7.7
Lead	1	mg/kg	36
Mercury	0.02	mg/kg	0.03
Nickel	1	mg/kg	1.8
Zinc	5	mg/kg	74
% Moisture	1	%	11

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 - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 03, 2025	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 03, 2025	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 03, 2025	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Welshpool	Jul 03, 2025	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Welshpool	Jul 03, 2025	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Jul 03, 2025	28 Days
A/A Split TPH Soil Waste Class - Method: ARL111 - Aliphatic/Aromatic Split of TPH in Soil/Sediment	Welshpool	Jul 03, 2025	14 Days
% Moisture - Method: ARL135 Moisture in Solids	Welshpool	Jul 02, 2025	14 Days



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Company Name: Aurora Environmental (Perth) P/L
Address: Dilhorn House 2 Bulwer St
Perth
WA 6000

Project Name:
Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	TP31 5.9-6.0	Jun 30, 2025		Soil	L25-JI0005222	X		X		X	X	
2	TP32 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005223	X		X		X	X	
3	TP32 6.4-6.5	Jun 30, 2025		Soil	L25-JI0005224	X		X		X	X	
4	TP33 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005225	X		X		X	X	
5	TP34 2.9-3.0	Jun 30, 2025		Soil	L25-JI0005226	X		X		X	X	
6	TP35 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005227	X		X		X	X	
7	TP36 4.9-5.0	Jun 30, 2025		Soil	L25-JI0005228	X		X		X	X	
8	TP37 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005229	X		X		X	X	
9	TP37 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005230	X		X		X	X	
10	TP38 3.9-4.0	Jun 30, 2025		Soil	L25-JI0005231	X		X		X	X	
11	TP38 5.5-6.0	Jun 30, 2025		Soil	L25-JI0005232	X		X		X	X	
12	QC1	Jun 30, 2025		Soil	L25-JI0005233	X		X		X	X	
13	TP27-V1	Jun 30, 2025		Soil	L25-JI0005234	X		X		X	X	
14	TP27-V2	Jun 30, 2025		Soil	L25-JI0005235	X		X		X	X	



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Company Name: Aurora Environmental (Perth) P/L
Address: Dilhorn House 2 Bulwer St
Perth
WA 6000

Project Name:
Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
15	TP27-V3	Jun 30, 2025		Soil	L25-JI0005236	X		X		X	X	
16	TP27-V4	Jun 30, 2025		Soil	L25-JI0005237	X		X		X	X	
17	TP27-SP1	Jun 30, 2025		Soil	L25-JI0005238	X		X		X	X	X
18	TP27-SP2	Jun 30, 2025		Soil	L25-JI0005239	X		X		X	X	X
19	TP27-SP3	Jun 30, 2025		Soil	L25-JI0005240	X		X		X	X	X
20	TP27-SP4	Jun 30, 2025		Soil	L25-JI0005241	X		X		X	X	X
21	TP27-SP1	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005242		X	X	X			
22	TP27-SP2	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005243		X	X	X			
23	TP27-SP3	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005244		X	X	X			
24	TP27-SP4	Jun 30, 2025		AUS Leachate - Reagent Water	L25-JI0005245		X	X	X			



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Project Name:
Project ID: MSG-PP03942

Order No.:
Report #: 1239460
Phone: 08 9227 2600
Fax: 08 9227 2699

Received: Jul 1, 2025 2:37 PM
Due: Jul 8, 2025
Priority: 5 Day
Contact Name: [REDACTED]

Eurofins Analytical Services Manager : [REDACTED]

Sample Detail						Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	BTEX	Moisture Set	Eurofins Suite B1	Aro/Ali Split of TPH Water
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X
External Laboratory												
25	TP34 6.9-7.0	Jun 30, 2025		Soil	L25-JI0005255	X		X		X	X	
Test Counts						21	4	25	4	21	21	4

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 (<i>bis</i> -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 - 1999 NEPM Fractions							
TRH C6-C9	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	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Mercury	mg/kg	< 0.02			0.02	Pass	
Nickel	mg/kg	< 1			1	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	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	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Mercury	mg/kg	< 0.02			0.02	Pass	
Nickel	mg/kg	< 1			1	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
A/A Split TPH Soil Waste Class							
Aliphatic >C16-C35	mg/kg	< 0.4			0.4	Pass	
Aromatic >C16-C35	mg/kg	< 0.4			0.4	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	83			70-130	Pass	
m&p-Xylenes	%	82			70-130	Pass	
o-Xylene	%	78			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	79			70-130	Pass	
TRH C6-C10	%	86			70-130	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	94			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	97			80-120	Pass	
Nickel	%	94			80-120	Pass	
Zinc	%	92			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	115			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	101			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	86			70-130	Pass	
TRH C6-C10	%	106			70-130	Pass	
LCS - % Recovery							
Metals M8							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	%	94			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	99			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	103			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	92			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	108			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	110			70-130	Pass	
4.4'-DDD	%	93			70-130	Pass	
4.4'-DDE	%	106			70-130	Pass	
4.4'-DDT	%	116			70-130	Pass	
a-HCH	%	98			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-HCH	%	99			70-130	Pass	
d-HCH	%	102			70-130	Pass	
Dieldrin	%	109			70-130	Pass	
Endosulfan I	%	95			70-130	Pass	
Endosulfan II	%	120			70-130	Pass	
Endosulfan sulphate	%	101			70-130	Pass	
Endrin	%	110			70-130	Pass	
Endrin aldehyde	%	109			70-130	Pass	
Endrin ketone	%	108			70-130	Pass	
g-HCH (Lindane)	%	109			70-130	Pass	
Heptachlor	%	107			70-130	Pass	
Heptachlor epoxide	%	92			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	
Methoxychlor	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	107			70-130	Pass	
LCS - % Recovery							
A/A Split TPH Soil Waste Class							
Aliphatic >C16-C35	%	93			60-120	Pass	
Aromatic >C16-C35	%	94			60-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	114			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	91			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	93			70-130	Pass	
4.4'-DDT	%	106			70-130	Pass	
a-HCH	%	95			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-HCH	%	101			70-130	Pass	
d-HCH	%	101			70-130	Pass	
Dieldrin	%	115			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I				%	114			70-130	Pass	
Endosulfan II				%	91			70-130	Pass	
Endosulfan sulphate				%	91			70-130	Pass	
Endrin				%	95			70-130	Pass	
Endrin ketone				%	106			70-130	Pass	
g-HCH (Lindane)				%	107			70-130	Pass	
Heptachlor				%	96			70-130	Pass	
Heptachlor epoxide				%	93			70-130	Pass	
Hexachlorobenzene				%	94			70-130	Pass	
Methoxychlor				%	88			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
TRH >C10-C16				%	109			70-130	Pass	
CRM - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
TRH >C10-C16				%	93			70-130	Pass	
TRH >C34-C40				%	99			70-130	Pass	
CRM - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions										
TRH >C10-C16				%	87			70-130	Pass	
TRH >C34-C40				%	83			70-130	Pass	
CRM - % Recovery										
Metals M8										
Lead				%	90			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9	L25-JI0016847	NCP	%	81				70-130	Pass	
Spike - % Recovery										
BTEX					Result 1					
Benzene	L25-JI0016847	NCP	%	84				70-130	Pass	
Toluene	L25-JI0016847	NCP	%	101				70-130	Pass	
Ethylbenzene	L25-JI0016847	NCP	%	84				70-130	Pass	
m&p-Xylenes	L25-JI0016847	NCP	%	113				70-130	Pass	
o-Xylene	L25-JI0016847	NCP	%	95				70-130	Pass	
Xylenes - Total*	L25-JI0016847	NCP	%	107				70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1					
Naphthalene	L25-JI0016847	NCP	%	77				70-130	Pass	
TRH C6-C10	L25-JI0016847	NCP	%	76				70-130	Pass	
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
Endrin aldehyde	L25-Jn0083225	NCP	%	101				70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C10-C14	L25-JI0005224	CP	%	109				70-130	Pass	
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
Chlordanes - Total	L25-JI0005224	CP	%	93				70-130	Pass	
4,4'-DDD	L25-JI0005224	CP	%	103				70-130	Pass	
4,4'-DDE	L25-JI0005224	CP	%	105				70-130	Pass	
4,4'-DDT	L25-JI0005224	CP	%	96				70-130	Pass	
a-HCH	L25-JI0005224	CP	%	107				70-130	Pass	
Aldrin	L25-JI0005224	CP	%	105				70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	L25-JI0005224	CP	%	82			70-130	Pass	
d-HCH	L25-JI0005224	CP	%	97			70-130	Pass	
Dieldrin	L25-JI0005224	CP	%	92			70-130	Pass	
Endosulfan I	L25-JI0005224	CP	%	116			70-130	Pass	
Endosulfan II	L25-JI0005224	CP	%	114			70-130	Pass	
Endosulfan sulphate	L25-JI0005224	CP	%	90			70-130	Pass	
Endrin	L25-JI0005224	CP	%	93			70-130	Pass	
Endrin aldehyde	L25-JI0005224	CP	%	111			70-130	Pass	
Endrin ketone	L25-JI0005224	CP	%	95			70-130	Pass	
g-HCH (Lindane)	L25-JI0005224	CP	%	101			70-130	Pass	
Heptachlor	L25-JI0005224	CP	%	94			70-130	Pass	
Heptachlor epoxide	L25-JI0005224	CP	%	98			70-130	Pass	
Hexachlorobenzene	L25-JI0005224	CP	%	109			70-130	Pass	
Methoxychlor	L25-JI0005224	CP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	L25-JI0005224	CP	%	103			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	L25-JI0005229	CP	%	94			75-125	Pass	
Cadmium	L25-JI0005229	CP	%	103			75-125	Pass	
Chromium	L25-JI0005229	CP	%	97			75-125	Pass	
Copper	L25-JI0005229	CP	%	89			75-125	Pass	
Mercury	L25-JI0005229	CP	%	101			75-125	Pass	
Nickel	L25-JI0005229	CP	%	94			75-125	Pass	
Zinc	L25-JI0005229	CP	%	113			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	L25-JI0005230	CP	%	80			70-130	Pass	
TRH C10-C14	L25-JI0005230	CP	%	101			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	L25-JI0005230	CP	%	81			70-130	Pass	
Toluene	L25-JI0005230	CP	%	79			70-130	Pass	
Ethylbenzene	L25-JI0005230	CP	%	80			70-130	Pass	
m&p-Xylenes	L25-JI0005230	CP	%	92			70-130	Pass	
o-Xylene	L25-JI0005230	CP	%	91			70-130	Pass	
Xylenes - Total*	L25-JI0005230	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	L25-JI0005230	CP	%	88			70-130	Pass	
TRH C6-C10	L25-JI0005230	CP	%	79			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	L25-JI0005230	CP	%	91			70-130	Pass	
4,4'-DDD	L25-JI0005230	CP	%	83			70-130	Pass	
4,4'-DDE	L25-JI0005230	CP	%	93			70-130	Pass	
4,4'-DDT	L25-JI0005230	CP	%	106			70-130	Pass	
a-HCH	L25-JI0005230	CP	%	95			70-130	Pass	
Aldrin	L25-JI0005230	CP	%	102			70-130	Pass	
b-HCH	L25-JI0005230	CP	%	101			70-130	Pass	
d-HCH	L25-JI0005230	CP	%	101			70-130	Pass	
Dieldrin	L25-JI0005230	CP	%	115			70-130	Pass	
Endosulfan I	L25-JI0005230	CP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	L25-JI0005230	CP	%	91			70-130	Pass	
Endosulfan sulphate	L25-JI0005230	CP	%	91			70-130	Pass	
Endrin	L25-JI0005230	CP	%	95			70-130	Pass	
Endrin ketone	L25-JI0005230	CP	%	106			70-130	Pass	
g-HCH (Lindane)	L25-JI0005230	CP	%	107			70-130	Pass	
Heptachlor	L25-JI0005230	CP	%	96			70-130	Pass	
Heptachlor epoxide	L25-JI0005230	CP	%	93			70-130	Pass	
Hexachlorobenzene	L25-JI0005230	CP	%	94			70-130	Pass	
Methoxychlor	L25-JI0005230	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	L25-JI0005230	CP	%	95			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	L25-JI0005239	CP	%	93			75-125	Pass	
Cadmium	L25-JI0005239	CP	%	102			75-125	Pass	
Chromium	L25-JI0005239	CP	%	99			75-125	Pass	
Copper	L25-JI0005239	CP	%	86			75-125	Pass	
Lead	L25-JI0005239	CP	%	105			75-125	Pass	
Mercury	L25-JI0005239	CP	%	97			75-125	Pass	
Nickel	L25-JI0005239	CP	%	97			75-125	Pass	
Zinc	L25-JI0005239	CP	%	85			75-125	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	L25-JI0005241	CP	%	95			75-125	Pass	
Cadmium	L25-JI0005241	CP	%	101			75-125	Pass	
Chromium	L25-JI0005241	CP	%	97			75-125	Pass	
Copper	L25-JI0005241	CP	%	87			75-125	Pass	
Lead	L25-JI0005241	CP	%	94			75-125	Pass	
Mercury	L25-JI0005241	CP	%	102			75-125	Pass	
Nickel	L25-JI0005241	CP	%	97			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	L25-JI0016849	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	L25-JI0002926	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	L25-JI0002926	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	L25-JI0002926	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	L25-JI0016849	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	L25-JI0016849	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	L25-JI0016849	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	L25-JI0016849	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	L25-JI0016849	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	L25-JI0016849	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	L25-JI0016849	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	L25-JI0016849	NCP	mg/kg	21	24	15	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	L25-JI0002926	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	L25-JI0002926	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	L25-JI0002926	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-JI0004794	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-JI0004794	NCP	mg/kg	0.1	0.1	8.0	30%	Pass
Chromium	L25-JI0004794	NCP	mg/kg	25	26	5.0	30%	Pass
Copper	L25-JI0004794	NCP	mg/kg	360	370	3.0	30%	Pass
Lead	L25-JI0004794	NCP	mg/kg	51	55	6.0	30%	Pass
Mercury	L25-JI0004794	NCP	mg/kg	0.72	0.79	8.0	30%	Pass
Nickel	L25-JI0004794	NCP	mg/kg	6.2	6.5	5.0	30%	Pass
Zinc	L25-JI0004794	NCP	mg/kg	440	450	3.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	L25-JI0002899	NCP	%	28	27	1.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	L25-JI0005226	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	L25-JI0005226	CP	mg/kg	66	75	13	30%	Pass
TRH C29-C36	L25-JI0005226	CP	mg/kg	88	95	8.0	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	L25-JI0005226	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	L25-JI0005226	CP	mg/kg	0.56	0.60	8.0	30%	Pass
Endosulfan I	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	L25-JI0005226	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	L25-JI0005226	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	L25-JI0005226	CP	mg/kg	130	150	10	30%	Pass
TRH >C34-C40	L25-JI0005226	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	L25-JI0005227	CP	%	11	10	4.0	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-JI0005228	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-JI0005228	CP	mg/kg	0.2	0.2	1.0	30%	Pass
Chromium	L25-JI0005228	CP	mg/kg	5.3	5.6	5.0	30%	Pass
Copper	L25-JI0005228	CP	mg/kg	6.1	6.6	7.0	30%	Pass
Lead	L25-JI0005228	CP	mg/kg	16	17	5.0	30%	Pass
Mercury	L25-JI0005228	CP	mg/kg	0.03	0.03	4.0	30%	Pass

Duplicate								
Metals M8				Result 1	Result 2	RPD		
Nickel	L25-JI0005228	CP	mg/kg	1.5	1.5	4.0	30%	Pass
Zinc	L25-JI0005228	CP	mg/kg	150	160	7.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	L25-JI0007548	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	L25-JI0007548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	L25-JI0007548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	L25-JI0007548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	L25-JI0007548	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	L25-JI0007548	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	L25-JI0007548	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	L25-JI0007548	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	L25-JI0007548	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	L25-JI0005233	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	L25-JI0005233	CP	mg/kg	0.16	0.13	<1	30%	Pass
Endosulfan I	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	L25-JI0005233	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	L25-JI0005237	CP	%	5.0	5.6	10	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-JI0005238	CP	mg/kg	2.4	2.1	11	30%	Pass
Cadmium	L25-JI0005238	CP	mg/kg	0.1	0.1	4.0	30%	Pass
Chromium	L25-JI0005238	CP	mg/kg	6.1	5.5	9.0	30%	Pass
Copper	L25-JI0005238	CP	mg/kg	7.6	6.9	10	30%	Pass
Lead	L25-JI0005238	CP	mg/kg	27	25	8.0	30%	Pass
Mercury	L25-JI0005238	CP	mg/kg	0.04	0.04	2.0	30%	Pass
Nickel	L25-JI0005238	CP	mg/kg	1.3	1.2	12	30%	Pass
Zinc	L25-JI0005238	CP	mg/kg	120	110	10	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	L25-JI0005241	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	L25-JI0005241	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	L25-JI0005241	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	L25-JI0005241	CP	mg/kg	51	66	<1	30%	Pass
Duplicate								
BTX				Result 1	Result 2	RPD		
Benzene	L25-JI0005241	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	L25-JI0005241	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	L25-JI0005241	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	L25-JI0005241	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	L25-JI0005241	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	L25-JI0005241	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	L25-JI0005241	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	L25-JI0005241	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	L25-JI0005241	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	L25-JI0005241	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	L25-JI0005241	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	L25-JI0005241	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	L25-JI0005241	CP	mg/kg	< 100	< 100	<1	30%	Pass

Comments

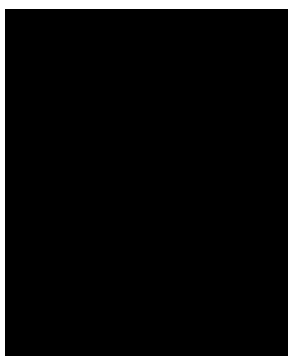
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
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.
Q05	The matrix spike concentration is less than five times the background concentration in the sample - therefore the spike recovery cannot be determined
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:



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

General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request

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ATTACHMENT 2

Test Pit Soil Logs

ATTACHMENT 3

Photograph Log

ATTACHMENT 4

Tables

ATTACHMENT 5

Laboratory Documentation