Report

28 March 2025

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From	Charlie Rolfe	**Project No.**	12662246
Project Name	Kimberley Supply Chain Cluster EIA - Final Approvals Documentation		
Subject	Results of preliminary contaminant survey of reclamation fill		

1. Introduction

GHD Pty Ltd (GHD) was engaged by Crestlink Pty Ltd (Crestlink) to prepare a factual report which summarises the findings of the preliminary contaminant survey of the proposed reclamation fill material, undertaken on Cockatoo Island, Western Australia on 24 February 2025 (herein referred to as 'the site').

Crestlink proposes to construct and operate the Kimberley Supply Chain Cluster (the 'Project'). The purpose of this supply base is to establish a multi-user supply chain and logistics hub comprising of an upgraded airfield, a wharf and an aftermarket subsea workshop as well as other related support infrastructure.

GHD understands that the development of a wharf to its full extent will involve a reclamation area of approximately 5.8 Hectares (Ha) of land and will require approximately 700,000 cubic metres (m^3) of fill to raise the level of the platform to approximately 3 m above high tide.

It is understood that Crestlink propose to resource fill material from the island, to reclaim the intertidal area and create the wharf which is noted to be 'largely mine waste' fill. The geochemical properties of the fill material and source of the fill material with regards to original excavation is currently unknown.

Based on public comment of the Environmental Review Document (ERD) of the proposed project, Crestlink engaged GHD to undertake preliminary sampling of the proposed reclamation fill material from the island.

1.1 Objectives

The objective of the sampling was to undertake a preliminary contaminant survey of near surface samples of the proposed reclamation fill material.

As full characterisation of this material was not possible under this scope, the scope and methodology provided in Section 3 can only provide a preliminary understanding of the soil quality (from a contamination stand point) of the proposed reclamation fill material.

1.2 Scope of work

The scope of work undertaken to address the objectives includes the following:

– Preparation of a Job Safety and Environmental Assessment (JSEA)
– Collection of 16 samples by a geotechnical engineer contracted by Crestlink from the seven preliminary geotechnical assessment sites on Cockatoo Island for the potential reclamation fill material.
– Submission of samples to the primary laboratory ALS and secondary laboratory Eurofins.

– Analysis of all samples for the following Contaminants of Potential Concern (CoPC): Metals, Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN), Polycyclic Aromatic Hydrocarbons (PAH), Total Nitrogen (N) and Total Phosphorous (P), Ammonia as N, Nitrate as N and Nitrite as N, Fluoride, Chloride and Sulfate.
– Scheduling and analysis of five samples for Australia Standard Leaching Procedure (ASLP) leachate testing for lead and nickel.
– Preparation of this factual report.

1.3 Limitations

This factual report has been prepared by GHD for Crestlink. It is not prepared as, and is not represented to be, a deliverable suitable for reliance by any person for any purpose. It is not intended for circulation or incorporation into other documents. The matters discussed in this factual report are limited to those specifically detailed in the factual report and are subject to any limitations or assumptions specially set out.

The undertaken scope of services is preliminary in nature and definitive outcomes are not possible.

The scope of work was completed by others, therefore GHD is not able to comment on the suitability of personnel who completed the work.

Accessibility of documents

If this factual report is required to be accessible in any other format this can be provided by GHD upon request and at an additional cost if necessary.

2. Guidelines

The stockpiled proposed reclamation fill material was sampled with reference to the following guidelines:

– Department of Water and Environmental Regulation, Assessment and management of contaminated sites, (DWER 2021).
– National Environmental Protection Council (NEPC), *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended in 2013 (ASC NEPM 2013).

In accordance with the ASC NEPM 2013, field personnel are required to be suitably qualified to undertake appropriate sampling.

3. Methodology

The following sections prescribe the methodology undertaken for the preliminary sampling work.

3.1 Health, safety and the environment

A site-specific JSEA was prepared prior to the commencement of fieldworks. The JSEA documented health and safety systems and procedures that applied during the term of the contract, site organisation and coordination, hazard evaluation and management, communication procedures, personal protective equipment required and emergency procedures including route to the nearest hospital.

The JSEA included daily pre-work risk assessment which were completed at the commencement of fieldworks.

3.2 Soil sampling

3.2.1 Sample placement and coordinates

All soil samples were collected by a geotechnical engineer, contracted by Crestlink.

GHD understand that there are seven preliminary geotechnical assessment sites on Cockatoo Island for the proposed reclamation fill material (See Figure 1, Attachment 1). Three samples were collected in relative proximity

to each of the geotechnical sites in effort that the preliminary contamination assessment can be linked to the geotechnical properties of potential fill material. A total of 16 samples were collected.

GHD were informed that three samples were unable to be collected from two of the preliminary geotechnical assessment sites as part of the preliminary contaminant survey due to time constraints.

The coordinates of the sample locations were recorded on Google Earth. The sample locations and coordinates are provided in Table 1 and displayed on Figure 1 (Attachment 1).

Table 1 Sample location coordinates

Location ID	X Coordinate	Y Coordinate
1A	565972	8220111
3A	566097	8220136
3B	566091	8220131
3C	566085	8220127
4A	566104	8220210
4B	566106	8220208
4C	566110	8220206
5A	566034	8220294
5B	566039	8220287
5C	566046	8220280
6A	565945	8220369
6B	565952	8220360
6C	565963	8220356
7A	565854	8220315
7B	565866	8220312
7C	565866	8220294

3.2.2 Sample collection

– Using a decontaminated trowel samples were collected from at least 300 mm below the stockpile surface into the laboratory supplied sample jar.
– The soil jar was filled to the top with no headspace remaining and the lid firmly secured.

3.3 Sample preservation

– Samples were placed immediately into chilled laboratory supplied eskies following collection.
– Ice and/or ice bricks were regularly changed to ensure that samples were kept chilled, before being transported to the laboratory.

3.4 Decontamination procedures

3.4.1 Trowel decontamination

The trowel was decontaminated between each sample location using the following procedure:

– Any bulk residual material was removed from the trowel (if present).
– The trowel was washed in a bucket filled with tap water and decontamination solution (Liquinox®).
– The trowel was rinsed in a second bucket filled with tap water.

3.4.2 Sample handling

– All samples were handled using disposable nitrile gloves, which were replaced between each sampling location.

3.5 QA/QC samples

One set of duplicate and triplicate samples were collected as part of the preliminary contaminant survey. The material collected was first put into a large ziplock bag and homogenised and then distributed between the primary, duplicate and triplicate sample.

One rinsate sample was collected at the end of the sampling from the trowel.

3.6 Analytical schedule

Analysis of the collected samples was in accordance with the Cockatoo Island Multi Use Supply Base Construction Environmental Management Plan (CEMP), which comprise the CoPC documented in Table 2.

The analytes within Table 2 were considered to be suitable for an initial survey, and further material characterisation (including but not limited to Acid Sulfate Soils, Acid Mine Drainage which will incorporate metalliferous drainage and dispersive potential) may be required prior to re-use.

All primary soil samples were analysed for all CoPC as documented in Table 2 and ASLP testing was undertaken on 5 of the 16 primary samples. Duplicate and triplicate quality control samples were analysed for all CoPC as per Table 2 however, ASLP testing was not undertaken on these.

Rinsate samples were analysed for all analytes as per Table 2.

Table 2 Fill analytical suite

Analyte	Limit of Reporting (LOR)
WA Waste Classification (Metals Suite)** *Leachate (ASLP) – lead and nickel (discretionary – approximately 10% of samples)*	0.1 – 50 mg/kg, 1%, 0.1 pH unit
TRH, BTEXN	0.2 – 100 mg/kg
PAH	0.5 – 5 mg/kg
Total N and Total P	1 %, 0.1 – 20 mg/kg
Ammonia as N	20 mg/kg
Nitrate as N and Nitrite as N	0.1 mg/kg
Fluoride	40 mg/kg
Chloride	10 mg/kg
Sulfate	100 mg/kg
**As, B, Ba, Be, Cd, Cr, Co, Cu, Mn, Mo, Ni, Pb, Se, V, Zn, Hg. Leachate (ASLP) – lead and nickel **Standard level (12 analytes)	

4. Assessment criteria

Soil analytical results were compared to the following adopted assessment criteria:

– National Environment Protection Measure (NEPM) 2013 Ecological Screening Levels:
  - Areas of Ecological Significance
  - Commercial/Industrial
– NEPM 2013 Ecological Investigation Levels:
  - Areas of Ecological Significance, coarse soil

    - Commercial/Industrial, coarse soil
- Australian and New Zealand Environment and Conservation Council (ANZECC) 2000 Interim sediment quality guideline (ISQG):
    - High
    - Low
- National Assessment Guidelines for Dredging 2009 (Commonwealth of Australia 2009)

5. Results

5.1 Analytical results

Results have been tabulated and are provided in Attachment 2 and laboratory documentation is provided in Attachment 3.

All soil and leachate analytical results were reported below the adopted assessment criteria, except for those in Table 3.

Table 3 Soil exceedances of the adopted assessment criteria

Analyte	Laboratory Report number	Concentration	Guideline(s) exceeded
Chromium (III + VI)	1193218	97 mg/kg	National Assessment Guidelines for Dredging 2009 Screening Level and ANZECC 2000 ISQG -Low of 80 mg/kg
Nickel		6.0 mg/kg	NEPM 2013 EIL Areas of Ecological Significance of 5 mg/kg

5.2 QA/QC

A Quality Assurance/Quality Control (QA/QC) assessment has been included as Attachment 4.

Based on the results of the evaluation of the QA/QC data, the reported QA/QC non-compliances are not considered to significantly influence the reliability of the analytical data. It is further considered that:

- The field and laboratory quality assurance measures implemented are considered to provide a reasonable level of confidence that the data collected and reported is appropriately complete, comparable and representative.
- The field and laboratory quality control measures implemented are considered to provide a reasonable level of confidence that the data collected and reported is appropriately accurate and precise.

Systematic errors have not been identified. Whilst there are QA/QC outliers when considering the dataset as a whole the outliers do not impact the outcome of the assessment.

The overall review of the QA/QC results indicates that the data collected for the investigation is considered to be of acceptable quality upon which to provide an adequate and reliable assessment of the property.

6. Conclusions

The preliminary and indicative survey of potential reclamation material for the wharf development of the Project found that only chromium and nickel were reported above the adopted assessment criteria.

This preliminary and indicative survey does not provide definitive outcomes because of the limited nature of the scope of works and uncertainty regarding the reclamation fill material source site.

A Sampling Analysis and Quality Plan (SAQP) will be developed and implemented as committed to in the CEMP to ensure that the reclamation material and management complies with regulatory requirements.

Project name		Kimberley Supply Chain Cluster EIA - Final Approvals Documentation					
Document title		Report | Results of preliminary contaminant survey of reclamation fill					
Project number		12662246					
File name		12662246-SREP-2025-Cockatoo Island Stockpile Sampling.docx					
Status Code	**Revision**	**Author**	**Reviewer**		**Approved for issue**		
			Name	**Signature**	**Name**	**Signature**	**Date**
S4	1	C Rolfe	Peter Zafiropoulos		J. Romero		28-03-25

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Attachments

Attachment 1

Figures

DRAFT

Paper Size ISO A4

0 0.1 0.2 0.3 0.4

Kilometers

N

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 51

GHD

Crestlink Pty Ltd
Kimberley Supply Chain Cluster
EIA - Final Approvals Documentation

Project No. **12662246**
Revision No. **A**
Date **17/03/2025**

Fill Sampling Locations

FIGURE 1

\\ghdnet.internal\ghd\AU\Perth\Projects\61\12662246\GIS\Maps\Working\CockatoolslandMarineStudies.aprx - 12662246_001_FillLocations_RevA
Print date: 17 Mar 2025 - 11:26

Data source: Landgate_Subscription_Imagery\WANow: World Imagery: Maxar. Created by: kmacaspac

Attachment 2

Results tables

	Unit	EQL	ANZECC 2000 ISQG -High	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										1A	3A	3B	3C
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										1A	3A	3B	3C
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
Leach Preparation													
pH of Leaching Fluid	pH units	0.1								-	5.0	-	-
pH (Initial)	pH units	0.1								-	5.6	-	-
pH (after HCL)	pH units	0.1								-	1.1	-	-
pH (Final)	pH units	0.1								-	5.1	-	-
Inorganics													
Moisture (%)	%	1								5.4	17.8	14.8	14.8
pH (Lab)	pH units	0.1								9.2	5.5	4.5	5.7
Major Ions													
Chloride	mg/kg	10								<10	<10	<10	<10
Sulfate (filtered)	mg/kg	10								20	20	10	10
Fluoride	mg/kg	40								110	380	90	270
Nutrients													
Ammonia as N	mg/kg	20								<20	<20	<20	<20
Nitrate (as N)	mg/kg	0.1								0.1	0.1	0.4	0.2
Nitrite (as N)	mg/kg	0.1								<0.1	<0.1	<0.1	<0.1
Nitrogen (Total Oxidised) (as N)	mg/kg	0.1								0.1	0.1	0.4	0.2
Nitrogen (Total)	mg/kg	20								<20	90	50	120
Kjeldahl Nitrogen Total	mg/kg	20								<20	90	50	120
Phosphorus (Total)	mg/kg	2								78	74	59	97
Metals													
Aluminium	mg/kg	50								630	6,410	3,550	9,780
Arsenic	mg/kg	5	**70**	20	20	40	*160*			<5	<5	<5	<5
Barium	mg/kg	10								<10	<10	<10	<10
Beryllium	mg/kg	1								<1	<1	<1	<1
Boron	mg/kg	50								<50	<50	<50	<50
Cadmium	mg/kg	0.1	**10**	1.5	1.5					<0.1	<0.1	<0.1	<0.1
Chromium (hexavalent)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Cobalt	mg/kg	2								<2	<2	<2	<2
Copper	mg/kg	5	**270**	65	65	20	*85*			<5	<5	<5	<5
Lead	mg/kg	0.1	**220**	50	50	470	*1,800*			1.3	9.7	5.0	8.3
Lead (filtered)	mg/L	0.1								-	<0.1	-	-
Manganese	mg/kg	5								24	14	7	23
Mercury	mg/kg	0.1	**1**	0.15	0.15					<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2								<2	<2	<2	<2
Nickel	mg/kg	2	**52**	21	21	5	*55*			<2	<2	<2	<2
Nickel (filtered)	mg/L	0.1								-	<0.1	-	-
Selenium	mg/kg	1								<1	<1	<1	<1
Silver	mg/kg	2	**3.7**	1	1					<2	<2	<2	<2
Vanadium	mg/kg	5								<5	79	38	71
Zinc	mg/kg	5	**410**	200	200	15	*110*			<5	<5	<5	<5

Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
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Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										1A	3A	3B	3C
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
BTEXN													
Naphthalene (value used in F2 calc)	mg/kg	1								<1	<1	<1	<1
Benzene	mg/kg	0.2						10	75	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.5						10	135	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5						1.5	165	<0.5	<0.5	<0.5	<0.5
Xylene (o)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5						10	180	<0.5	<0.5	<0.5	<0.5
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2								<0.2	<0.2	<0.2	<0.2
TRH - NEPM 2013													
F1 (C6-C10 minus BTEX)	mg/kg	10						125	215	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10								<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50						25		<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50						25	170	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100							1,700	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100							3,300	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50								<50	<50	<50	<50
TRH - NEPM 1999													
C6-C9 Fraction	mg/kg	10			550					<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50			550					<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100			550					<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100			550					<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50			550					<50	<50	<50	<50
PAHs - standard 16													
Acenaphthene	mg/kg	0.5	**0.5**	0.016						<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5	**0.64**	0.044						<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5	**1.1**	0.085						<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	**1.6**	0.261						<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	mg/kg	0.5	**1.6**	0.43				0.7	1.4	<0.5	<0.5	<0.5	<0.5
Benzo[b+j]fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5	**2.8**	0.384						<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5	**0.26**	0.063						**<0.5**	**<0.5**	**<0.5**	**<0.5**
Fluoranthene	mg/kg	0.5	**5.1**	0.6						<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5	**0.54**	0.019						<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5	**2.1**	0.16		10	*370*			<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5	**1.5**	0.24						<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5	**2.6**	0.665						<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	**45**	4	10					<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ) (half LOR) - Lab Calc	mg/kg	0.5								0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Calc	mg/kg	0.5								1.2	1.2	1.2	1.2

Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										4A	4B	4C	5A
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										4A	4B	4C	5A
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
Leach Preparation													
pH of Leaching Fluid	pH units	0.1								5.0	-	5.0	5.0
pH (Initial)	pH units	0.1								5.6	-	6.3	5.4
pH (after HCL)	pH units	0.1								1.1	-	1.1	1.2
pH (Final)	pH units	0.1								5.1	-	5.1	5.1
Inorganics													
Moisture (%)	%	1								15.3	11.0	10.0	11.7
pH (Lab)	pH units	0.1								5.6	6.3	6.3	5.2
Major Ions													
Chloride	mg/kg	10								<10	<10	<10	<10
Sulfate (filtered)	mg/kg	10								40	<10	<10	10
Fluoride	mg/kg	40								170	70	80	80
Nutrients													
Ammonia as N	mg/kg	20								<20	<20	<20	<20
Nitrate (as N)	mg/kg	0.1								0.1	0.2	0.3	0.1
Nitrite (as N)	mg/kg	0.1								<0.1	<0.1	<0.1	<0.1
Nitrogen (Total Oxidised) (as N)	mg/kg	0.1								0.1	0.2	0.3	0.1
Nitrogen (Total)	mg/kg	20								100	100	140	<20
Kjeldahl Nitrogen Total	mg/kg	20								100	100	140	<20
Phosphorus (Total)	mg/kg	2								95	88	85	239
Metals													
Aluminium	mg/kg	50								6,240	5,430	4,810	1,180
Arsenic	mg/kg	5	**70**	20	20	40	*160*			<5	<5	<5	<5
Barium	mg/kg	10								<10	<10	<10	<10
Beryllium	mg/kg	1								<1	<1	<1	<1
Boron	mg/kg	50								<50	<50	<50	<50
Cadmium	mg/kg	0.1	**10**	1.5	1.5					<0.1	<0.1	<0.1	<0.1
Chromium (hexavalent)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Cobalt	mg/kg	2								<2	<2	<2	<2
Copper	mg/kg	5	**270**	65	65	20	*85*			<5	<5	<5	<5
Lead	mg/kg	0.1	**220**	50	50	470	*1,800*			8.0	6.6	5.5	4.6
Lead (filtered)	mg/L	0.1								<0.1	-	<0.1	<0.1
Manganese	mg/kg	5								21	17	17	54
Mercury	mg/kg	0.1	**1**	0.15	0.15					<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2								<2	<2	<2	<2
Nickel	mg/kg	2	**52**	21	21	5	*55*			<2	<2	<2	<2
Nickel (filtered)	mg/L	0.1								<0.1	-	<0.1	<0.1
Selenium	mg/kg	1								<1	<1	<1	<1
Silver	mg/kg	2	**3.7**	1	1					<2	<2	<2	<2
Vanadium	mg/kg	5								59	55	39	18
Zinc	mg/kg	5	**410**	200	200	15	*110*			<5	<5	<5	<5

Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										4A	4B	4C	5A
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										4A	4B	4C	5A
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
BTEXN													
Naphthalene (value used in F2 calc)	mg/kg	1								<1	<1	<1	<1
Benzene	mg/kg	0.2						10	75	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.5						10	135	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5						1.5	165	<0.5	<0.5	<0.5	<0.5
Xylene (o)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5						10	180	<0.5	<0.5	<0.5	<0.5
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2								<0.2	<0.2	<0.2	<0.2
TRH - NEPM 2013													
F1 (C6-C10 minus BTEX)	mg/kg	10						125	215	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10								<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50						25		<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50						25	170	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100							1,700	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100							3,300	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50								<50	<50	<50	<50
TRH - NEPM 1999													
C6-C9 Fraction	mg/kg	10			550					<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50			550					<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100			550					<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100			550					<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50			550					<50	<50	<50	<50
PAHs - standard 16													
Acenaphthene	mg/kg	0.5	**0.5**	0.016						<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5	**0.64**	0.044						<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5	**1.1**	0.085						<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	**1.6**	0.261						<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	mg/kg	0.5	**1.6**	0.43				0.7	1.4	<0.5	<0.5	<0.5	<0.5
Benzo[b+j]fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5	**2.8**	0.384						<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5	**0.26**	0.063						**<0.5**	**<0.5**	**<0.5**	**<0.5**
Fluoranthene	mg/kg	0.5	**5.1**	0.6						<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5	**0.54**	0.019						<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5	**2.1**	0.16		10	*370*			<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5	**1.5**	0.24						<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5	**2.6**	0.665						<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	**45**	4	10					<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ) (half LOR) - Lab Calc	mg/kg	0.5								0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Calc	mg/kg	0.5								1.2	1.2	1.2	1.2

	Unit	EQL	ANZECC 2000 ISQG -High	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										5B	5C	6A	6B
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										5B	5C	6A	6B
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
Leach Preparation													
pH of Leaching Fluid	pH units	0.1								-	-	-	-
pH (Initial)	pH units	0.1								-	-	-	-
pH (after HCL)	pH units	0.1								-	-	-	-
pH (Final)	pH units	0.1								-	-	-	-
Inorganics													
Moisture (%)	%	1								16.9	13.8	9.2	9.9
pH (Lab)	pH units	0.1								5.2	5.2	7.9	6.8
Major Ions													
Chloride	mg/kg	10								<10	<10	<10	<10
Sulfate (filtered)	mg/kg	10								20	<10	<10	10
Fluoride	mg/kg	40								120	740	200	80
Nutrients													
Ammonia as N	mg/kg	20								<20	<20	<20	<20
Nitrate (as N)	mg/kg	0.1								<0.1	0.1	<0.1	0.1
Nitrite (as N)	mg/kg	0.1								<0.1	<0.1	<0.1	<0.1
Nitrogen (Total Oxidised) (as N)	mg/kg	0.1								<0.1	0.1	<0.1	0.1
Nitrogen (Total)	mg/kg	20								<20	<20	20	40
Kjeldahl Nitrogen Total	mg/kg	20								<20	<20	20	40
Phosphorus (Total)	mg/kg	2								227	226	138	125
Metals													
Aluminium	mg/kg	50								2,020	1,120	1,610	2,120
Arsenic	mg/kg	5	**70**	20	20	40	*160*			<5	<5	<5	<5
Barium	mg/kg	10								<10	<10	<10	<10
Beryllium	mg/kg	1								<1	<1	<1	<1
Boron	mg/kg	50								<50	<50	<50	<50
Cadmium	mg/kg	0.1	**10**	1.5	1.5					<0.1	<0.1	<0.1	<0.1
Chromium (hexavalent)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Cobalt	mg/kg	2								<2	<2	<2	<2
Copper	mg/kg	5	**270**	65	65	20	*85*			<5	<5	<5	<5
Lead	mg/kg	0.1	**220**	50	50	470	*1,800*			2.1	1.1	12.2	10.6
Lead (filtered)	mg/L	0.1								-	-	-	-
Manganese	mg/kg	5								23	28	46	27
Mercury	mg/kg	0.1	**1**	0.15	0.15					<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2								<2	<2	<2	<2
Nickel	mg/kg	2	**52**	21	21	5	*55*			<2	<2	<2	<2
Nickel (filtered)	mg/L	0.1								-	-	-	-
Selenium	mg/kg	1								<1	<1	<1	<1
Silver	mg/kg	2	**3.7**	1	1					<2	<2	<2	<2
Vanadium	mg/kg	5								37	22	22	27
Zinc	mg/kg	5	**410**	200	200	15	*110*			<5	<5	<5	<5

									Site ID	Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
									Location Code	5B	5C	6A	6B
									Date	24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
									Field ID	5B	5C	6A	6B
									Sample Type	Normal	Normal	Normal	Normal
									Lab Report Number	EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
BTEXN													
Naphthalene (value used in F2 calc)	mg/kg	1								<1	<1	<1	<1
Benzene	mg/kg	0.2						10	75	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.5						10	135	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5						1.5	165	<0.5	<0.5	<0.5	<0.5
Xylene (o)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5						10	180	<0.5	<0.5	<0.5	<0.5
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2								<0.2	<0.2	<0.2	<0.2
TRH - NEPM 2013													
F1 (C6-C10 minus BTEX)	mg/kg	10						125	215	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10								<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50						25		<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50						25	170	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100							1,700	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100							3,300	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50								<50	<50	<50	<50
TRH - NEPM 1999													
C6-C9 Fraction	mg/kg	10			550					<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50			550					<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100			550					<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100			550					<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50			550					<50	<50	<50	<50
PAHs - standard 16													
Acenaphthene	mg/kg	0.5	**0.5**	0.016						<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5	**0.64**	0.044						<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5	**1.1**	0.085						<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	**1.6**	0.261						<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	mg/kg	0.5	**1.6**	0.43				0.7	1.4	<0.5	<0.5	<0.5	<0.5
Benzo[b+j]fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5	**2.8**	0.384						<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5	**0.26**	0.063						**<0.5**	**<0.5**	**<0.5**	**<0.5**
Fluoranthene	mg/kg	0.5	**5.1**	0.6						<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5	**0.54**	0.019						<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5	**2.1**	0.16		10	*370*			<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5	**1.5**	0.24						<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5	**2.6**	0.665						<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	**45**	4	10					<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ) (half LOR) - Lab Calc	mg/kg	0.5								0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Calc	mg/kg	0.5								1.2	1.2	1.2	1.2

Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										6C	7A	7B	7C
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										6C	7A	7B	7C
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
Leach Preparation													
pH of Leaching Fluid	pH units	0.1								5.0	-	-	-
pH (Initial)	pH units	0.1								6.1	-	-	-
pH (after HCL)	pH units	0.1								1.1	-	-	-
pH (Final)	pH units	0.1								5.1	-	-	-
Inorganics													
Moisture (%)	%	1								10.5	7.8	8.2	9.2
pH (Lab)	pH units	0.1								5.8	9.4	9.5	9.2
Major Ions													
Chloride	mg/kg	10								<10	410	40	<10
Sulfate (filtered)	mg/kg	10								10	30	10	90
Fluoride	mg/kg	40								120	120	90	610
Nutrients													
Ammonia as N	mg/kg	20								<20	<20	<20	<20
Nitrate (as N)	mg/kg	0.1								0.1	1.4	0.2	0.1
Nitrite (as N)	mg/kg	0.1								<0.1	<0.1	<0.1	<0.1
Nitrogen (Total Oxidised) (as N)	mg/kg	0.1								0.1	1.4	0.2	0.1
Nitrogen (Total)	mg/kg	20								40	<20	<20	80
Kjeldahl Nitrogen Total	mg/kg	20								40	<20	<20	80
Phosphorus (Total)	mg/kg	2								311	105	87	178
Metals													
Aluminium	mg/kg	50								2,050	1,040	920	3,670
Arsenic	mg/kg	5	**70**	20	20	40	*160*			<5	<5	<5	5
Barium	mg/kg	10								<10	<10	<10	<10
Beryllium	mg/kg	1								<1	<1	<1	<1
Boron	mg/kg	50								<50	<50	<50	<50
Cadmium	mg/kg	0.1	**10**	1.5	1.5					<0.1	<0.1	<0.1	<0.1
Chromium (hexavalent)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Cobalt	mg/kg	2								<2	<2	<2	2
Copper	mg/kg	5	**270**	65	65	20	*85*			<5	<5	<5	<5
Lead	mg/kg	0.1	**220**	50	50	470	*1,800*			13.9	1.1	1.2	3.8
Lead (filtered)	mg/L	0.1								<0.1	-	-	-
Manganese	mg/kg	5								36	42	27	64
Mercury	mg/kg	0.1	**1**	0.15	0.15					<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2								<2	<2	<2	<2
Nickel	mg/kg	2	**52**	21	21	5	*55*			<2	<2	<2	3
Nickel (filtered)	mg/L	0.1								<0.1	-	-	-
Selenium	mg/kg	1								<1	<1	<1	<1
Silver	mg/kg	2	**3.7**	1	1					<2	<2	<2	<2
Vanadium	mg/kg	5								30	5	5	10
Zinc	mg/kg	5	**410**	200	200	15	*110*			<5	<5	<5	5

Site ID										Cockatoo Island	Cockatoo Island	Cockatoo Island	Cockatoo Island
Location Code										6C	7A	7B	7C
Date										24 Feb 2025	24 Feb 2025	24 Feb 2025	24 Feb 2025
Field ID										6C	7A	7B	7C
Sample Type										Normal	Normal	Normal	Normal
Lab Report Number										EP2503279	EP2503279	EP2503279	EP2503279
	Unit	EQL	**ANZECC 2000 ISQG -High**	ANZECC 2000 ISQG -Low	National Assessment Guidelines for Dredging 2009	NEPM 2013 EIL-Areas of Ecological Significance >=0m, <2m	*NEPM 2013 EIL-Commercial/Industrial >=0m, <2m*	NEPM 2013 Table 1B(6) ESLs for Areas of Ecological Significance, Coarse Soil >=0m,	NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil				
BTEXN													
Naphthalene (value used in F2 calc)	mg/kg	1								<1	<1	<1	<1
Benzene	mg/kg	0.2						10	75	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.5						10	135	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5						1.5	165	<0.5	<0.5	<0.5	<0.5
Xylene (o)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5						10	180	<0.5	<0.5	<0.5	<0.5
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2								<0.2	<0.2	<0.2	<0.2
TRH - NEPM 2013													
F1 (C6-C10 minus BTEX)	mg/kg	10						125	215	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10								<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50						25		<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50						25	170	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100							1,700	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100							3,300	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50								<50	<50	<50	<50
TRH - NEPM 1999													
C6-C9 Fraction	mg/kg	10			550					<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50			550					<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100			550					<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100			550					<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50			550					<50	<50	<50	<50
PAHs - standard 16													
Acenaphthene	mg/kg	0.5	**0.5**	0.016						<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5	**0.64**	0.044						<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5	**1.1**	0.085						<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	**1.6**	0.261						<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	mg/kg	0.5	**1.6**	0.43				0.7	1.4	<0.5	<0.5	<0.5	<0.5
Benzo[b+j]fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5	**2.8**	0.384						<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5	**0.26**	0.063						**<0.5**	**<0.5**	**<0.5**	**<0.5**
Fluoranthene	mg/kg	0.5	**5.1**	0.6						<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5	**0.54**	0.019						<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5	**2.1**	0.16		10	*370*			<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5	**1.5**	0.24						<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5	**2.6**	0.665						<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	**45**	4	10					<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	mg/kg	0.5								<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ) (half LOR) - Lab Calc	mg/kg	0.5								0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Calc	mg/kg	0.5								1.2	1.2	1.2	1.2

Attachment 3

Laboratory documentation

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

GHD
Level 10, 999 Hay Street
Perth WA 6000

PO Box 3106
Perth WA 6832

Reception Ph: 08 6222 8222

Page 1 of 1

Project ID 12662246	**PO Number** (to be invoiced) 12662246
Laboratory Quote No. EP25GHDSER0009	**Turnaround Time** Standard
Project Manager (Invoice) & GHD accounts Invoice to : AccountsPayableAU@ghd.com	**Email Address (Results)** GHD.LabReports@ghd.com; Charlie.Rolfe@ghd.com; Jose.Romero@ghd.com; Tristan.Sleigh@ghd.com

Laboratory: ALS Environmental
Address: 26 Rigali Way, Wangara WA 6065
Laboratory Contact:

GHD Sample ID	Lab Sample ID	Date	Time	Sample Matrix S-Soil/ SL-Sludge/ W-Water/ A-Air	Container: Type B-Bottle/J-Jar/V-Vial/Bag/G-Glass/P-Plastic	Container: Preservative Unpreserved/ HCl/ H2SO4/HNO3/Other	Container: No	Sulfate as SO4 2- (ED040S)	Chloride (ED045G (solids))	Fluoride (EK040T-P)	1:5 Leach (EN34)	NH3, NO2, NO3, NOX, TKN, TN, TP (NT-8S)	WA Waste Classification (P-19/2)	TRH/BTEXN/PAH (S-07)	Loachable Metals by ICPAES: Ni, Pb (EG005C)	ASLP Leachate Procedure - Glass Leaching Vessel (EN60a-G)	TRH(C6-C9)/BTEXN (S-18)	Sulfate (ED041G Sulfate as S)	Chloride (ED045G)	Fluoride (EK040-P)	Total Nitrogen + NO2 + NO3 + NH3 + Total P (NT-08)	15 Metals (Total) (NEPM) (W-03T)	Al, Ag, Mo (EG020T)	Total Hexavalent Chromium (EG050G-T)	TRH/BTEXN/PAH (W-07)	HOLD	Remarks
7A	1	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
7B	2	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
7C	3	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
6A	4	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
6B	5	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
6C	6	24/02/25		Soil	Jar	No		X	X	X	X	X	X	X	X	X											
5A	7	24/02/25		Soil	Jar	No		X	X	X	X	X	X	X	X	X											
5B	8	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
5C	9	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
4A	10	24/02/25		Soil	Jar	No		X	X	X		X	X	X	X	X											
4B	11	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
4C	12	24/02/25		Soil	Jar	No		X	X	X	X	X	X	X	X	X											
3A	13	24/02/25		Soil	Jar	No		X	X	X	X	X	X	X	X	X											
3B	14	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
3C	15	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
1A	16	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
QC01	17	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
QC03	18	24/02/25		Soil	Jar	No		X	X	X		X	X	X													
RB01	19	24/02/25		Soil	Jar	No												X	X	X	X	X	X	X	X	X	

Environmental Division
Perth
Work Order Reference
EP2503279

Telephone : -- 61-8-9406 1301

Sampled by: RM	Date/Time: 24/02/2025	Relinquished by: Charlie Rolfe	Date/Time: 27 /02/2025 15:00
Received by: 21	Date/Time: 5/3 11am	Relinquished by:	Date/Time:

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EP2503279**

Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: Charlie Rolfe	Contact	: Angel Tam
Address	: 999 HAY STREET PERTH WA, AUSTRALIA 6000	Address	: 26 Rigali Way Wangara WA Australia 6065
E-mail	: charlie.rolfe@ghd.com	E-mail	: angel.tam@alsglobal.com
Telephone	: ----	Telephone	: +61-8-9406 1301
Facsimile	: ----	Facsimile	: +61-8-9406 1399
Project	: 12662246	Page	: 1 of 5
Order number	: 12662246	Quote number	: EP2025GHDSER0009 (EP25GHDSER0009)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: RM		

Dates

Date Samples Received	: 05-Mar-2025 11:00	Issue Date	: 06-Mar-2025
Client Requested Due Date	: 14-Mar-2025	Scheduled Reporting Date	: **14-Mar-2025**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 19.8 - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 19 / 19

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (Samples.Perth@alsglobal.com)
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Perth, NATA accreditation no. 825, site no. 15847.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **pH analysis should be conducted within 6 hours of sampling.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Sample ID	Sample Container Received	Preferred Sample Container for Analysis
Hexavalent Chromium by Discrete Analyser - Total : EG050G-T		
RB01	- Black Opaque Plastic Bottle - NaOH	- Clear Plastic Bottle - NaOH

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - ED040S Soluble Major Anions	SOIL - ED045G (solids) Chloride Soluble by Discrete Analyser	SOIL - EK040T-P Total Fluoride by Auto Analyzer	SOIL - NT-8S NH3, NO2, NO3, NOX, TKN, TN, TP	SOIL - P-19/2 WA Waste Classification (Metals Suite)	SOIL - S-07 TRH/BTEXN/PAH (SIM)
EP2503279-001	24-Feb-2025 00:00	7A	✓	✓	✓	✓	✓	✓	✓
EP2503279-002	24-Feb-2025 00:00	7B	✓	✓	✓	✓	✓	✓	✓
EP2503279-003	24-Feb-2025 00:00	7C	✓	✓	✓	✓	✓	✓	✓
EP2503279-004	24-Feb-2025 00:00	6A	✓	✓	✓	✓	✓	✓	✓
EP2503279-005	24-Feb-2025 00:00	6B	✓	✓	✓	✓	✓	✓	✓
EP2503279-006	24-Feb-2025 00:00	6C	✓	✓	✓	✓	✓	✓	✓
EP2503279-007	24-Feb-2025 00:00	5A	✓	✓	✓	✓	✓	✓	✓
EP2503279-008	24-Feb-2025 00:00	5B	✓	✓	✓	✓	✓	✓	✓
EP2503279-009	24-Feb-2025 00:00	5C	✓	✓	✓	✓	✓	✓	✓
EP2503279-010	24-Feb-2025 00:00	4A	✓	✓	✓	✓	✓	✓	✓
EP2503279-011	24-Feb-2025 00:00	4B	✓	✓	✓	✓	✓	✓	✓
EP2503279-012	24-Feb-2025 00:00	4C	✓	✓	✓	✓	✓	✓	✓
EP2503279-013	24-Feb-2025 00:00	3A	✓	✓	✓	✓	✓	✓	✓
EP2503279-014	24-Feb-2025 00:00	3B	✓	✓	✓	✓	✓	✓	✓
EP2503279-015	24-Feb-2025 00:00	3C	✓	✓	✓	✓	✓	✓	✓
EP2503279-016	24-Feb-2025 00:00	1A	✓	✓	✓	✓	✓	✓	✓
EP2503279-017	24-Feb-2025 00:00	QC01	✓	✓	✓	✓	✓	✓	✓
EP2503279-018	24-Feb-2025 00:00	QC03	✓	✓	✓	✓	✓	✓	✓

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EG005C Leachable Metals by ICPAES	SOIL - EN60a-G ASLP Leachate Procedure - Glass Leaching
EP2503279-006	24-Feb-2025 00:00	6C	✓	✓
EP2503279-007	24-Feb-2025 00:00	5A	✓	✓
EP2503279-010	24-Feb-2025 00:00	4A	✓	✓
EP2503279-012	24-Feb-2025 00:00	4C	✓	✓
EP2503279-013	24-Feb-2025 00:00	3A	✓	✓

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - ED045G Chloride by Discrete Analyser	WATER - EG020T Total Metals by ICP/MS (including digestion)	WATER - EK040-P Fluoride (Auto Titrator)	WATER - W-03T 15 Metals (Total) (NEPM)	WATER - W-07 TRH/BTEXN/PAH
EP2503279-019	24-Feb-2025 00:00	RB01	✓	✓	✓	✓	✓

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - ED041G Sulfate as S Sulfate (Turbidimetric) by Discrete Analyser	WATER - EG050G-T Total Hexavalent Chromium	WATER - NT-08 Total Nitrogen + NO2 + NO3 + NH3 + Total P
EP2503279-019	24-Feb-2025 00:00	RB01	✓	✓	✓

Proactive Holding Time Report

The following table summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received Date	Samples Received Evaluation	Instructions Received Date	Instructions Received Evaluation
EA002: pH (1:5)							
1A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
3A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
3B	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
3C	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
4A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
4B	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
4C	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
5A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
5B	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
5C	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
6A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
6B	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
6C	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
7A	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
7B	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
7C	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
QC01	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
QC03	Soil Glass Jar - Unpreserved	03-Mar-2025	03-Mar-2025	05-Mar-2025	✘	----	----
EK057G: Nitrite as N - Soluble by Discrete Analyser							
1A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
3A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
3B	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
3C	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
4A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
4B	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
4C	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
5A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
5B	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
5C	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
6A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
6B	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
6C	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
7A	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
7B	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
7C	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
QC01	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----
QC03	Soil Glass Jar - Unpreserved	03-Mar-2025	05-Mar-2025	05-Mar-2025	✘	----	----

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Client Sample ID(s)	Container	Due for extraction	Due for analysis	Samples Received Date	Samples Received Evaluation	Instructions Received Date	Instructions Received Evaluation
EG050G-T: Hexavalent Chromium by Discrete Analyser - Total							
RB01	Black Opaque Plastic Bottle - Na	----	25-Feb-2025	05-Mar-2025	✘	----	----
EK057G: Nitrite as N by Discrete Analyser							
RB01	Clear Plastic Bottle - Natural	----	26-Feb-2025	05-Mar-2025	✘	----	----
EP071: TRH - Semivolatile Fraction							
RB01	Amber Glass Bottle - Unpreserve	03-Mar-2025	12-Apr-2025	05-Mar-2025	✘	----	----
EP075(SIM): PAH/Phenols (GC/MS - SIM)							
RB01	Amber Glass Bottle - Unpreserve	03-Mar-2025	12-Apr-2025	05-Mar-2025	✘	----	----

Requested Deliverables

Accounts Payable Australia

- A4 - AU Tax Invoice (INV)	Email	accountspayableAU@ghd.com

Charlie Rolfe

- *AU Certificate of Analysis - NATA (COA)	Email	charlie.rolfe@ghd.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	charlie.rolfe@ghd.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	charlie.rolfe@ghd.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	charlie.rolfe@ghd.com
- A4 - AU Tax Invoice (INV)	Email	charlie.rolfe@ghd.com
- AU Guideline Comparison Report (COA_GL_CR)	Email	charlie.rolfe@ghd.com
- Chain of Custody (CoC) (COC)	Email	charlie.rolfe@ghd.com
- EDI Format - ESDAT (ESDAT)	Email	charlie.rolfe@ghd.com
- Electronic SRN for ESdat (ESRN_ESDAT)	Email	charlie.rolfe@ghd.com

JOSE ROMERO

- *AU Certificate of Analysis - NATA (COA)	Email	jose.romero@ghd.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	jose.romero@ghd.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	jose.romero@ghd.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	jose.romero@ghd.com
- AU Guideline Comparison Report (COA_GL_CR)	Email	jose.romero@ghd.com
- Chain of Custody (CoC) (COC)	Email	jose.romero@ghd.com
- EDI Format - ESDAT (ESDAT)	Email	jose.romero@ghd.com
- Electronic SRN for ESdat (ESRN_ESDAT)	Email	jose.romero@ghd.com

LAB REPORTS

- *AU Certificate of Analysis - NATA (COA)	Email	GHD.LabReports@ghd.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	GHD.LabReports@ghd.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	GHD.LabReports@ghd.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	GHD.LabReports@ghd.com
- AU Guideline Comparison Report (COA_GL_CR)	Email	GHD.LabReports@ghd.com
- Chain of Custody (CoC) (COC)	Email	GHD.LabReports@ghd.com
- EDI Format - ESDAT (ESDAT)	Email	GHD.LabReports@ghd.com
- Electronic SRN for ESdat (ESRN_ESDAT)	Email	GHD.LabReports@ghd.com

TRISTAN SLEIGH

- *AU Certificate of Analysis - NATA (COA)	Email	Tristan.Sleigh@ghd.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Tristan.Sleigh@ghd.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Tristan.Sleigh@ghd.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Tristan.Sleigh@ghd.com
- AU Guideline Comparison Report (COA_GL_CR)	Email	Tristan.Sleigh@ghd.com
- Chain of Custody (CoC) (COC)	Email	Tristan.Sleigh@ghd.com
- EDI Format - ESDAT (ESDAT)	Email	Tristan.Sleigh@ghd.com
- Electronic SRN for ESdat (ESRN_ESDAT)	Email	Tristan.Sleigh@ghd.com

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EK040T-P: Total Fluoride by Auto Analyser

CERTIFICATE OF ANALYSIS

Work Order	: **EP2503279**	Page	: 1 of 24
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: Charlie Rolfe	Contact	: Angel Tam
Address	: 999 HAY STREET PERTH WA, AUSTRALIA 6000	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 12662246	Date Samples Received	: 05-Mar-2025 11:00
Order number	: 12662246	Date Analysis Commenced	: 06-Mar-2025
C-O-C number	: ----	Issue Date	: 14-Mar-2025 17:33
Sampler	: RM		
Site	: ----		
Quote number	: EP25GHDSER0009		
No. of samples received	: 19		
No. of samples analysed	: 19		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Chris Lemaitre	Laboratory Manager (Perth)	Perth Inorganics, Wangara, WA
Daniel Fisher	Inorganics Analyst	Perth Inorganics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Fluoride conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG035: Poor matrix spike recovery obtained for Mercury on sample EP2503148-002 due to possible matrix interference. Results have been confirmed by re-preparation and re-analysis.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Analytical Results

Sub-Matrix: ACETIC ACID LEACHATE (Matrix: WATER)				Sample ID	6C	5A	4A	4C	3A
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-006	EP2503279-007	EP2503279-010	EP2503279-012	EP2503279-013
					Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES									
Lead	7439-92-1	0.1	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	7A	7B	7C	6A	6B
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-001	EP2503279-002	EP2503279-003	EP2503279-004	EP2503279-005
					Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)									
pH Value	----	0.1	pH Unit		**9.4**	**9.5**	**9.2**	**7.9**	**6.8**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**7.8**	**8.2**	**9.2**	**9.2**	**9.9**
ED040S: Soluble Major Anions									
Sulfate as SO4 2-	14808-79-8	10	mg/kg		**30**	**10**	**90**	<10	**10**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	10	mg/kg		**410**	**40**	<10	<10	<10
EG005(ED093)T: Total Metals by ICP-AES									
Aluminium	7429-90-5	50	mg/kg		**1040**	**920**	**3670**	**1610**	**2120**
Arsenic	7440-38-2	5	mg/kg		<5	<5	**5**	<5	<5
Barium	7440-39-3	10	mg/kg		<10	<10	<10	<10	<10
Beryllium	7440-41-7	1	mg/kg		<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg		<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg		<2	<2	**2**	<2	<2
Copper	7440-50-8	5	mg/kg		<5	<5	<5	<5	<5
Manganese	7439-96-5	5	mg/kg		**42**	**27**	**64**	**46**	**27**
Molybdenum	7439-98-7	2	mg/kg		<2	<2	<2	<2	<2
Nickel	7440-02-0	2	mg/kg		<2	<2	**3**	<2	<2
Silver	7440-22-4	2	mg/kg		<2	<2	<2	<2	<2
Vanadium	7440-62-2	5	mg/kg		**5**	**5**	**10**	**22**	**27**
Zinc	7440-66-6	5	mg/kg		<5	<5	**5**	<5	<5
EG020T: Total Metals by ICP-MS									
Cadmium	7440-43-9	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/kg		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	7782-49-2	1	mg/kg		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	7A	7B	7C	6A	6B
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-001	EP2503279-002	EP2503279-003	EP2503279-004	EP2503279-005
					Result	Result	Result	Result	Result
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser									
Fluoride	16984-48-8	40	mg/kg		**120**	**90**	**610**	**200**	**80**
EK055: Ammonia as N									
Ammonia as N	7664-41-7	20	mg/kg		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N (Sol.)	14797-55-8	0.1	mg/kg		**1.4**	**0.2**	**0.1**	<0.1	**0.1**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg		**1.4**	**0.2**	**0.1**	<0.1	**0.1**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	20	mg/kg		<20	<20	**80**	**20**	**40**
EK062: Total Nitrogen as N (TKN + NOx)									
^ Total Nitrogen as N	----	20	mg/kg		<20	<20	**80**	**20**	**40**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	2	mg/kg		**105**	**87**	**178**	**138**	**125**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	7A	7B	7C	6A	6B
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-001	EP2503279-002	EP2503279-003	EP2503279-004	EP2503279-005
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	7A	7B	7C	6A	6B
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-001	EP2503279-002	EP2503279-003	EP2503279-004	EP2503279-005
					Result	Result	Result	Result	Result
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**79.3**	**75.7**	**78.2**	**77.2**	**75.4**
2-Chlorophenol-D4	93951-73-6	0.5	%		**79.2**	**75.8**	**77.8**	**76.9**	**75.3**
2.4.6-Tribromophenol	118-79-6	0.5	%		**59.6**	**73.2**	**57.0**	**51.4**	**63.0**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**78.1**	**74.7**	**76.3**	**73.9**	**73.6**
Anthracene-d10	1719-06-8	0.5	%		**106**	**100**	**110**	**115**	**119**
4-Terphenyl-d14	1718-51-0	0.5	%		**118**	**114**	**123**	**130**	**109**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**87.8**	**72.6**	**78.1**	**75.6**	**76.7**
Toluene-D8	2037-26-5	0.2	%		**72.4**	**67.4**	**73.5**	**70.6**	**72.6**
4-Bromofluorobenzene	460-00-4	0.2	%		**88.0**	**84.0**	**83.6**	**84.5**	**83.0**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	6C	5A	5B	5C	4A
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-006	EP2503279-007	EP2503279-008	EP2503279-009	EP2503279-010
					Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)									
pH Value	----	0.1	pH Unit		**5.8**	**5.2**	**5.2**	**5.2**	**5.6**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**10.5**	**11.7**	**16.9**	**13.8**	**15.3**
ED040S: Soluble Major Anions									
Sulfate as SO4 2-	14808-79-8	10	mg/kg		**10**	**10**	**20**	<10	**40**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	10	mg/kg		<10	<10	<10	<10	<10
EG005(ED093)T: Total Metals by ICP-AES									
Aluminium	7429-90-5	50	mg/kg		**2050**	**1180**	**2020**	**1120**	**6240**
Arsenic	7440-38-2	5	mg/kg		<5	<5	<5	<5	<5
Barium	7440-39-3	10	mg/kg		<10	<10	<10	<10	<10
Beryllium	7440-41-7	1	mg/kg		<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg		<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg		<2	<2	<2	<2	<2
Copper	7440-50-8	5	mg/kg		<5	<5	<5	<5	<5
Manganese	7439-96-5	5	mg/kg		**36**	**54**	**23**	**28**	**21**
Molybdenum	7439-98-7	2	mg/kg		<2	<2	<2	<2	<2
Nickel	7440-02-0	2	mg/kg		<2	<2	<2	<2	<2
Silver	7440-22-4	2	mg/kg		<2	<2	<2	<2	<2
Vanadium	7440-62-2	5	mg/kg		**30**	**18**	**37**	**22**	**59**
Zinc	7440-66-6	5	mg/kg		<5	<5	<5	<5	<5
EG020T: Total Metals by ICP-MS									
Cadmium	7440-43-9	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/kg		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	7782-49-2	1	mg/kg		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	6C	5A	5B	5C	4A
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-006	EP2503279-007	EP2503279-008	EP2503279-009	EP2503279-010
					Result	Result	Result	Result	Result
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser									
Fluoride	16984-48-8	40	mg/kg		**120**	**80**	**120**	**740**	**170**
EK055: Ammonia as N									
Ammonia as N	7664-41-7	20	mg/kg		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N (Sol.)	14797-55-8	0.1	mg/kg		**0.1**	**0.1**	<0.1	**0.1**	**0.1**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg		**0.1**	**0.1**	<0.1	**0.1**	**0.1**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	20	mg/kg		**40**	<20	<20	<20	**100**
EK062: Total Nitrogen as N (TKN + NOx)									
^ Total Nitrogen as N	----	20	mg/kg		**40**	<20	<20	<20	**100**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	2	mg/kg		**311**	**239**	**227**	**226**	**95**
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		**6.1**	**5.4**	**----**	**----**	**5.6**
After HCl pH	----	0.1	pH Unit		**1.1**	**1.2**	**----**	**----**	**1.1**
Extraction Fluid pH	----	0.1	pH Unit		**5.0**	**5.0**	**----**	**----**	**5.0**
Final pH	----	0.1	pH Unit		**5.1**	**5.1**	**----**	**----**	**5.1**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	6C	5A	5B	5C	4A
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-006	EP2503279-007	EP2503279-008	EP2503279-009	EP2503279-010
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	6C	5A	5B	5C	4A
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-006	EP2503279-007	EP2503279-008	EP2503279-009	EP2503279-010
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**78.4**	**77.5**	**78.3**	**77.5**	**80.0**
2-Chlorophenol-D4	93951-73-6	0.5	%		**77.8**	**77.2**	**77.8**	**77.2**	**79.5**
2.4.6-Tribromophenol	118-79-6	0.5	%		**63.9**	**46.5**	**48.9**	**77.2**	**48.7**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**72.0**	**73.0**	**76.6**	**70.4**	**74.0**
Anthracene-d10	1719-06-8	0.5	%		**107**	**103**	**103**	**105**	**105**
4-Terphenyl-d14	1718-51-0	0.5	%		**119**	**113**	**116**	**112**	**113**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**95.4**	**74.1**	**78.5**	**83.6**	**75.8**
Toluene-D8	2037-26-5	0.2	%		**88.5**	**69.5**	**72.1**	**76.8**	**70.4**
4-Bromofluorobenzene	460-00-4	0.2	%		**94.2**	**81.0**	**86.6**	**89.9**	**86.7**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	4B	4C	3A	3B	3C
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-011	EP2503279-012	EP2503279-013	EP2503279-014	EP2503279-015
					Result	Result	Result	Result	Result
EA002: pH 1:5 (Soils)									
pH Value	----	0.1	pH Unit		**6.3**	**6.3**	**5.5**	**4.5**	**5.7**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**11.0**	**10.0**	**17.8**	**14.8**	**14.8**
ED040S: Soluble Major Anions									
Sulfate as SO4 2-	14808-79-8	10	mg/kg		<10	<10	**20**	**10**	**10**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	10	mg/kg		<10	<10	<10	<10	<10
EG005(ED093)T: Total Metals by ICP-AES									
Aluminium	7429-90-5	50	mg/kg		**5430**	**4810**	**6410**	**3550**	**9780**
Arsenic	7440-38-2	5	mg/kg		<5	<5	<5	<5	<5
Barium	7440-39-3	10	mg/kg		<10	<10	<10	<10	<10
Beryllium	7440-41-7	1	mg/kg		<1	<1	<1	<1	<1
Boron	7440-42-8	50	mg/kg		<50	<50	<50	<50	<50
Cobalt	7440-48-4	2	mg/kg		<2	<2	<2	<2	<2
Copper	7440-50-8	5	mg/kg		<5	<5	<5	<5	<5
Manganese	7439-96-5	5	mg/kg		**17**	**17**	**14**	**7**	**23**
Molybdenum	7439-98-7	2	mg/kg		<2	<2	<2	<2	<2
Nickel	7440-02-0	2	mg/kg		<2	<2	<2	<2	<2
Silver	7440-22-4	2	mg/kg		<2	<2	<2	<2	<2
Vanadium	7440-62-2	5	mg/kg		**55**	**39**	**79**	**38**	**71**
Zinc	7440-66-6	5	mg/kg		<5	<5	<5	<5	<5
EG020T: Total Metals by ICP-MS									
Cadmium	7440-43-9	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/kg		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	7782-49-2	1	mg/kg		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	4B	4C	3A	3B	3C
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-011	EP2503279-012	EP2503279-013	EP2503279-014	EP2503279-015
					Result	Result	Result	Result	Result
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser									
Fluoride	16984-48-8	40	mg/kg		**70**	**80**	**380**	**90**	**270**
EK055: Ammonia as N									
Ammonia as N	7664-41-7	20	mg/kg		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N (Sol.)	14797-55-8	0.1	mg/kg		**0.2**	**0.3**	**0.1**	**0.4**	**0.2**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg		**0.2**	**0.3**	**0.1**	**0.4**	**0.2**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	20	mg/kg		**100**	**140**	**90**	**50**	**120**
EK062: Total Nitrogen as N (TKN + NOx)									
^ Total Nitrogen as N	----	20	mg/kg		**100**	**140**	**90**	**50**	**120**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	2	mg/kg		**88**	**85**	**74**	**59**	**97**
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		**----**	**6.3**	**5.6**	**----**	**----**
After HCl pH	----	0.1	pH Unit		**----**	**1.1**	**1.1**	**----**	**----**
Extraction Fluid pH	----	0.1	pH Unit		**----**	**5.0**	**5.0**	**----**	**----**
Final pH	----	0.1	pH Unit		**----**	**5.1**	**5.1**	**----**	**----**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	4B	4C	3A	3B	3C
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-011	EP2503279-012	EP2503279-013	EP2503279-014	EP2503279-015
					Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	4B	4C	3A	3B	3C
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00
Compound	CAS Number	LOR	Unit		EP2503279-011	EP2503279-012	EP2503279-013	EP2503279-014	EP2503279-015
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**77.5**	**78.7**	**77.3**	**77.5**	**77.5**
2-Chlorophenol-D4	93951-73-6	0.5	%		**76.5**	**77.2**	**76.6**	**76.4**	**76.6**
2.4.6-Tribromophenol	118-79-6	0.5	%		**85.4**	**75.6**	**47.4**	**42.5**	**56.0**
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**70.1**	**73.3**	**73.0**	**72.1**	**70.4**
Anthracene-d10	1719-06-8	0.5	%		**114**	**105**	**118**	**110**	**108**
4-Terphenyl-d14	1718-51-0	0.5	%		**108**	**125**	**124**	**117**	**112**
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**80.3**	**79.2**	**85.4**	**74.3**	**95.2**
Toluene-D8	2037-26-5	0.2	%		**80.2**	**68.5**	**87.6**	**68.5**	**86.4**
4-Bromofluorobenzene	460-00-4	0.2	%		**92.8**	**83.4**	**93.8**	**81.9**	**95.0**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	1A	QC01	QC03	----	----
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2503279-016	EP2503279-017	EP2503279-018	--------	--------
					Result	Result	Result	----	----
EA002: pH 1:5 (Soils)									
pH Value	----	0.1	pH Unit		**9.2**	**9.4**	**8.1**	**----**	**----**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**5.4**	**8.1**	**16.0**	**----**	**----**
ED040S: Soluble Major Anions									
Sulfate as SO4 2-	14808-79-8	10	mg/kg		**20**	**10**	**10**	**----**	**----**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	10	mg/kg		<10	**40**	<10	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES									
Aluminium	7429-90-5	50	mg/kg		**630**	**980**	**9830**	**----**	**----**
Arsenic	7440-38-2	5	mg/kg		<5	<5	<5	**----**	**----**
Barium	7440-39-3	10	mg/kg		<10	<10	<10	**----**	**----**
Beryllium	7440-41-7	1	mg/kg		<1	<1	<1	**----**	**----**
Boron	7440-42-8	50	mg/kg		<50	<50	<50	**----**	**----**
Cobalt	7440-48-4	2	mg/kg		<2	<2	<2	**----**	**----**
Copper	7440-50-8	5	mg/kg		<5	<5	<5	**----**	**----**
Manganese	7439-96-5	5	mg/kg		**24**	**28**	**25**	**----**	**----**
Molybdenum	7439-98-7	2	mg/kg		<2	<2	<2	**----**	**----**
Nickel	7440-02-0	2	mg/kg		<2	<2	<2	**----**	**----**
Silver	7440-22-4	2	mg/kg		<2	<2	<2	**----**	**----**
Vanadium	7440-62-2	5	mg/kg		<5	**5**	**74**	**----**	**----**
Zinc	7440-66-6	5	mg/kg		<5	<5	<5	**----**	**----**
EG020T: Total Metals by ICP-MS									
Cadmium	7440-43-9	0.1	mg/kg		<0.1	<0.1	<0.1	**----**	**----**
Lead	7439-92-1	0.1	mg/kg		**1.3**	**1.0**	**10.6**	**----**	**----**
Selenium	7782-49-2	1	mg/kg		<1	<1	<1	**----**	**----**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	**----**	**----**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	1A	QC01	QC03	----	----
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2503279-016	EP2503279-017	EP2503279-018	--------	--------
					Result	Result	Result	----	----
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser									
Fluoride	16984-48-8	40	mg/kg		**110**	**250**	**80**	----	----
EK055: Ammonia as N									
Ammonia as N	7664-41-7	20	mg/kg		<20	<20	<20	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg		<0.1	<0.1	<0.1	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N (Sol.)	14797-55-8	0.1	mg/kg		**0.1**	**0.2**	**0.2**	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg		**0.1**	**0.2**	**0.2**	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	20	mg/kg		<20	<20	**100**	----	----
EK062: Total Nitrogen as N (TKN + NOx)									
^ Total Nitrogen as N	----	20	mg/kg		<20	<20	**100**	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	2	mg/kg		**78**	**91**	**95**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	1A	QC01	QC03	----	----
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2503279-016	EP2503279-017	EP2503279-018	--------	--------
					Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	----	----
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg		<50	<50	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	1A	QC01	QC03	----	----
				Sampling date / time	24-Feb-2025 00:00	24-Feb-2025 00:00	24-Feb-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EP2503279-016	EP2503279-017	EP2503279-018	--------	--------
					Result	Result	Result	----	----
EP080: BTEXN - Continued									
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of BTEX**	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**77.4**	**78.8**	**80.0**	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**76.4**	**77.4**	**79.2**	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**42.8**	**41.1**	**71.3**	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**73.0**	**72.0**	**73.0**	----	----
Anthracene-d10	1719-06-8	0.5	%		**109**	**115**	**104**	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**128**	**117**	**124**	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**78.6**	**79.8**	**89.3**	----	----
Toluene-D8	2037-26-5	0.2	%		**67.6**	**76.4**	**90.0**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**82.1**	**89.0**	**96.1**	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
				Sampling date / time	24-Feb-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EP2503279-019	--------	--------	--------	--------
					Result	----	----	----	----
ED041G: Sulfate (Turbidimetric) as S by DA									
Sulfate as S - Turbidimetric	----	1	mg/L		<1	----	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		<1	----	----	----	----
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		<1	----	----	----	----
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		<0.01	----	----	----	----
Arsenic	7440-38-2	0.001	mg/L		<0.001	----	----	----	----
Boron	7440-42-8	0.05	mg/L		<0.05	----	----	----	----
Barium	7440-39-3	0.001	mg/L		<0.001	----	----	----	----
Beryllium	7440-41-7	0.001	mg/L		<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L		<0.001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L		<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L		<0.001	----	----	----	----
Manganese	7439-96-5	0.001	mg/L		<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L		<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L		<0.001	----	----	----	----
Selenium	7782-49-2	0.01	mg/L		<0.01	----	----	----	----
Vanadium	7440-62-2	0.01	mg/L		<0.01	----	----	----	----
Zinc	7440-66-6	0.005	mg/L		<0.005	----	----	----	----
Molybdenum	7439-98-7	0.001	mg/L		<0.001	----	----	----	----
Silver	7440-22-4	0.001	mg/L		<0.001	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L		<0.0001	----	----	----	----
EG050T: Total Hexavalent Chromium									
Hexavalent Chromium	18540-29-9	0.01	mg/L		<0.01	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
				Sampling date / time	24-Feb-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EP2503279-019	--------	--------	--------	--------
					Result	----	----	----	----
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		<0.1	----	----	----	----
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		<0.01	----	----	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	----	----	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	----	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	----	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		<0.1	----	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ **Total Nitrogen as N**	----	0.1	mg/L		<0.1	----	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		<0.01	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	1.0	µg/L		<1.0	----	----	----	----
Acenaphthylene	208-96-8	1.0	µg/L		<1.0	----	----	----	----
Acenaphthene	83-32-9	1.0	µg/L		<1.0	----	----	----	----
Fluorene	86-73-7	1.0	µg/L		<1.0	----	----	----	----
Phenanthrene	85-01-8	1.0	µg/L		<1.0	----	----	----	----
Anthracene	120-12-7	1.0	µg/L		<1.0	----	----	----	----
Fluoranthene	206-44-0	1.0	µg/L		<1.0	----	----	----	----
Pyrene	129-00-0	1.0	µg/L		<1.0	----	----	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L		<1.0	----	----	----	----
Chrysene	218-01-9	1.0	µg/L		<1.0	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	1.0	µg/L		<1.0	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
				Sampling date / time	24-Feb-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EP2503279-019	--------	--------	--------	--------
					Result	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(k)fluoranthene	207-08-9	1.0	µg/L		<1.0	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L		<1.0	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L		<1.0	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L		<1.0	----	----	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L		<0.5	----	----	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L		<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L		<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L		<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L		<50	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	µg/L		<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	20	µg/L		<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L		<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L		<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	100	µg/L		<100	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	100	µg/L		<100	----	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	----	----	----	----
Toluene	108-88-3	2	µg/L		<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	RB01	----	----	----	----
				Sampling date / time	24-Feb-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EP2503279-019	--------	--------	--------	--------
					Result	----	----	----	----
EP080: BTEXN - Continued									
ortho-Xylene	95-47-6	2	µg/L		<2	----	----	----	----
^ **Total Xylenes**	----	2	µg/L		<2	----	----	----	----
^ **Sum of BTEX**	----	1	µg/L		<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	1.0	%		**13.2**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	1.0	%		**40.3**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	1.0	%		**34.1**	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	1.0	%		**60.7**	----	----	----	----
Anthracene-d10	1719-06-8	1.0	%		**83.1**	----	----	----	----
4-Terphenyl-d14	1718-51-0	1.0	%		**65.0**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	2	%		**92.2**	----	----	----	----
Toluene-D8	2037-26-5	2	%		**106**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		**103**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	57	119
2-Chlorophenol-D4	93951-73-6	52	130
2.4.6-Tribromophenol	118-79-6	40	132
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	53	139
Anthracene-d10	1719-06-8	68	124
4-Terphenyl-d14	1718-51-0	66	132
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	132
Toluene-D8	2037-26-5	66	125
4-Bromofluorobenzene	460-00-4	60	124

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	67
2-Chlorophenol-D4	93951-73-6	29	120
2.4.6-Tribromophenol	118-79-6	10	131
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	131
Anthracene-d10	1719-06-8	43	126
4-Terphenyl-d14	1718-51-0	41	142
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	61	141
Toluene-D8	2037-26-5	73	126
4-Bromofluorobenzene	460-00-4	60	125

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EK040T-P: Total Fluoride by Auto Analyser

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **EP2503279**	Page	: 1 of 75
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: Charlie Rolfe	Contact	: Angel Tam
Address	: 999 HAY STREET PERTH WA, AUSTRALIA 6000	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 12662246	Date Samples Received	: 05-Mar-2025 11:00
Order number	: 12662246	Date Analysis Commenced	: 06-Mar-2025
C-O-C number	: ----	Issue Date	: 14-Mar-2025 17:33
Sampler	: RM		
Site	: ----		
Quote number	: EP25GHDSER0009		
No. of samples received	: 19		
No. of samples analysed	: 19		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to Assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Chris Lemaitre	Laboratory Manager (Perth)	Perth Inorganics, Wangara, WA
Daniel Fisher	Inorganics Analyst	Perth Inorganics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty **must be** considered. Refer to the ALS Contract Terms and Conditions for details, and EnviroMail 53 for a guide on how to interpret the measurement of uncertainty (MU).

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Fluoride conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EP075 (SIM): Where reported, Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG035: Poor matrix spike recovery obtained for Mercury on sample EP2503148-002 due to possible matrix interference. Results have been confirmed by re-preparation and re-analysis.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Analytical Results

Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate: Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	14		<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	10		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4		<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	2		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	0.2		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	300		**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	0.2		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160		<0.5	<0.5	<0.5	<0.5	<0.5

Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate: Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**7A** 24-Feb-2025 15:00	**7B** 24-Feb-2025 15:00	**7C** 24-Feb-2025 15:00	**6A** 24-Feb-2025 15:00	**6B** 24-Feb-2025 15:00
							EP2503279-001 MU	**EP2503279-002 MU**	**EP2503279-003 MU**	**EP2503279-004 MU**	**EP2503279-005 MU**
EP080: BTEXN - Continued											
Ethylbenzene	EP080	0.5	mg/kg	----	60		<0.5	<0.5	<0.5	<0.5	<0.5

Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate: Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	7A 24-Feb-2025 15:00 EP2503279-001 MU	7B 24-Feb-2025 15:00 EP2503279-002 MU	7C 24-Feb-2025 15:00 EP2503279-003 MU	6A 24-Feb-2025 15:00 EP2503279-004 MU	6B 24-Feb-2025 15:00 EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	14	<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000	**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	10	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4	<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000	**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2	**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	2	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	0.2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	300	**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	60	<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	100000		**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	140		<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	20		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000		<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000		**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	100		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	40		<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	200		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000		**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	100000		<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	4		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	20		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	20		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	2		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	3000		**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	28000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	2		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	1600		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	600		<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**7A** 24-Feb-2025 15:00	**7B** 24-Feb-2025 15:00	**7C** 24-Feb-2025 15:00	**6A** 24-Feb-2025 15:00	**6B** 24-Feb-2025 15:00
							EP2503279-001 MU	**EP2503279-002 MU**	**EP2503279-003 MU**	**EP2503279-004 MU**	**EP2503279-005 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1200		<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 7A: 24-Feb-2025 15:00 EP2503279-001 MU	7B: 24-Feb-2025 15:00 EP2503279-002 MU	7C: 24-Feb-2025 15:00 EP2503279-003 MU	6A: 24-Feb-2025 15:00 EP2503279-004 MU	6B: 24-Feb-2025 15:00 EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	200000	**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	1400	<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	200	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000	<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000	**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	1000	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	400	<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	2000	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000	**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	200000	<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	40	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	200	**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	200	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	20	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	30000	**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	112000	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	20	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	16000	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	6000	<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**7A** 24-Feb-2025 15:00	**7B** 24-Feb-2025 15:00	**7C** 24-Feb-2025 15:00	**6A** 24-Feb-2025 15:00	**6B** 24-Feb-2025 15:00
							EP2503279-001 MU	**EP2503279-002 MU**	**EP2503279-003 MU**	**EP2503279-004 MU**	**EP2503279-005 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	12000		<0.5	<0.5	<0.5	<0.5	<0.5

Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate: Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-006 MU	EP2503279-007 MU	EP2503279-008 MU	EP2503279-009 MU	EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	14		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	10		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	2		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	0.2		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	300		**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	0.2		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	60		<0.5	<0.5	<0.5	<0.5	<0.5

Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate: Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	6C 24-Feb-2025 15:00 EP2503279-006 MU	5A 24-Feb-2025 15:00 EP2503279-007 MU	5B 24-Feb-2025 15:00 EP2503279-008 MU	5C 24-Feb-2025 15:00 EP2503279-009 MU	4A 24-Feb-2025 15:00 EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	14	<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000	**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	10	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4	<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000	**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2	**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	2	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	0.2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	300	**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	60	<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	6C Sample ID: EP2503279-006 MU Sampling date/time: 24-Feb-2025 15:00	5A EP2503279-007 MU 24-Feb-2025 15:00	5B EP2503279-008 MU 24-Feb-2025 15:00	5C EP2503279-009 MU 24-Feb-2025 15:00	4A EP2503279-010 MU 24-Feb-2025 15:00
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	100000	**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	140	<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	20	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000	<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000	**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	100	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	40	<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	200	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000	**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	4	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	20	**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	20	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	3000	**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	28000	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	1600	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	600	<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**6C** 24-Feb-2025 15:00 **EP2503279-006 MU**	**5A** 24-Feb-2025 15:00 **EP2503279-007 MU**	**5B** 24-Feb-2025 15:00 **EP2503279-008 MU**	**5C** 24-Feb-2025 15:00 **EP2503279-009 MU**	**4A** 24-Feb-2025 15:00 **EP2503279-010 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1200		<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-006 MU	**EP2503279-007 MU**	**EP2503279-008 MU**	**EP2503279-009 MU**	**EP2503279-010 MU**
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	200000		**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	1400		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	200		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000		**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	400		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	2000		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000		**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	40		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	200		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	200		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	20		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	30000		**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	112000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	20		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	16000		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	6000		<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	6C 24-Feb-2025 15:00 **EP2503279-006 MU**	5A 24-Feb-2025 15:00 **EP2503279-007 MU**	5B 24-Feb-2025 15:00 **EP2503279-008 MU**	5C 24-Feb-2025 15:00 **EP2503279-009 MU**	4A 24-Feb-2025 15:00 **EP2503279-010 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	12000		<0.5	<0.5	<0.5	<0.5	<0.5

Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate: Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	14	<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000	**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	10	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4	<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000	**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2	**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	2	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	0.2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	300	**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	60	<0.5	<0.5	<0.5	<0.5	<0.5

Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate: Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	4B	4C	3A	3B	3C
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-011 MU	EP2503279-012 MU	EP2503279-013 MU	EP2503279-014 MU	EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	14		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	2		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	10		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	4		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	20		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	2		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	2		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	0.2		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	300		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	0.2		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	160		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	60		<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	100000	**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	140	<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	20	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000	<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000	**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	100	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	40	<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	200	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000	**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	4	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	20	**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	20	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	3000	**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	28000	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	1600	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	600	<0.5	<0.5	<0.5	<0.5	<0.5

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00 **EP2503279-011 MU**	4C 24-Feb-2025 15:00 **EP2503279-012 MU**	3A 24-Feb-2025 15:00 **EP2503279-013 MU**	3B 24-Feb-2025 15:00 **EP2503279-014 MU**	3C 24-Feb-2025 15:00 **EP2503279-015 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1200		<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	200000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	1400		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	200		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	400		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	2000		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	40		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	200		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	200		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	20		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	30000		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	112000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	20		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	16000		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	6000		<0.5	<0.5	<0.5	<0.5	<0.5

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00	4C 24-Feb-2025 15:00	3A 24-Feb-2025 15:00	3B 24-Feb-2025 15:00	3C 24-Feb-2025 15:00
							EP2503279-011 MU	**EP2503279-012 MU**	**EP2503279-013 MU**	**EP2503279-014 MU**	**EP2503279-015 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	12000		<0.5	<0.5	<0.5	<0.5	<0.5

Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate: Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 1A 24-Feb-2025 15:00 EP2503279-016 MU	QC01 24-Feb-2025 15:00 EP2503279-017 MU	QC03 24-Feb-2025 15:00 EP2503279-018 MU	---- ---- -------- MU	---- ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	14	<5 - -	<5 - -	<5 - -	----	----
Barium	EG005T	10	mg/kg	----	50000	<10 - -	<10 - -	<10 - -	----	----
Beryllium	EG005T	1	mg/kg	----	2	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	50000	<50 - -	<50 - -	<50 - -	----	----
Cobalt	EG005T	2	mg/kg	----	50000	<2 - -	<2 - -	<2 - -	----	----
Copper	EG005T	5	mg/kg	----	50000	<5 - -	<5 - -	<5 - -	----	----
Manganese	EG005T	5	mg/kg	----	50000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	10	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	4	<2 - -	<2 - -	<2 - -	----	----
Silver	EG005T	2	mg/kg	----	20	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	50000	<5 - -	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	50000	<5 - -	<5 - -	<5 - -	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	2	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	2	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	0.2	<0.1 - -	<0.1 - -	<0.1 - -	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	300	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	0.2	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	160	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	60	<0.5	<0.5	<0.5	----	----

Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate: Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 1A 24-Feb-2025 15:00 EP2503279-016 MU	QC01 24-Feb-2025 15:00 EP2503279-017 MU	QC03 24-Feb-2025 15:00 EP2503279-018 MU	---- ---- -------- MU	---- ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	14	<5 --	<5 --	<5 --	----	----
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	----	----
Beryllium	EG005T	1	mg/kg	----	2	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	----	----
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	----	----
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
Manganese	EG005T	5	mg/kg	----	50000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	10	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	4	<2 --	<2 --	<2 --	----	----
Silver	EG005T	2	mg/kg	----	20	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	50000	<5 --	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	0.4	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	2	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	2	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	0.2	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	10	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	300	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	0.2	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	160	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	60	<0.5	<0.5	<0.5	----	----

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 1A 24-Feb-2025 15:00 EP2503279-016 MU	QC01 24-Feb-2025 15:00 EP2503279-017 MU	QC03 24-Feb-2025 15:00 EP2503279-018 MU	---- ---- -------- MU	---- ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	100000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	140	<5 - -	<5 - -	<5 - -	----	----
Barium	EG005T	10	mg/kg	----	100000	<10 - -	<10 - -	<10 - -	----	----
Beryllium	EG005T	1	mg/kg	----	20	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	100000	<50 - -	<50 - -	<50 - -	----	----
Cobalt	EG005T	2	mg/kg	----	100000	<2 - -	<2 - -	<2 - -	----	----
Copper	EG005T	5	mg/kg	----	100000	<5 - -	<5 - -	<5 - -	----	----
Manganese	EG005T	5	mg/kg	----	100000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	100	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	40	<2 - -	<2 - -	<2 - -	----	----
Silver	EG005T	2	mg/kg	----	200	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	100000	<5 - -	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	100000	<5 - -	<5 - -	<5 - -	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	4	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	20	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	20	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	2	<0.1 - -	<0.1 - -	<0.1 - -	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	3000	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	28000	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	2	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	1600	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	600	<0.5	<0.5	<0.5	----	----

Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate: Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* **1A**	**QC01**	**QC03**	**----**	**----**
						Sampling date/time 24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	----	----
						EP2503279-016 MU	**EP2503279-017 MU**	**EP2503279-018 MU**	**-------- MU**	**-------- MU**
EP080: BTEXN - Continued										
Total Xylenes	EP080	0.5	mg/kg	----	1200	<0.5	<0.5	<0.5	**----**	**----**

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 1A 24-Feb-2025 15:00 EP2503279-016 MU	QC01 24-Feb-2025 15:00 EP2503279-017 MU	QC03 24-Feb-2025 15:00 EP2503279-018 MU	---- ---- -------- MU	---- ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	200000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	1400	<5 - -	<5 - -	<5 - -	----	----
Barium	EG005T	10	mg/kg	----	200000	<10 - -	<10 - -	<10 - -	----	----
Beryllium	EG005T	1	mg/kg	----	200	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	200000	<50 - -	<50 - -	<50 - -	----	----
Cobalt	EG005T	2	mg/kg	----	200000	<2 - -	<2 - -	<2 - -	----	----
Copper	EG005T	5	mg/kg	----	200000	<5 - -	<5 - -	<5 - -	----	----
Manganese	EG005T	5	mg/kg	----	200000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	1000	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	400	<2 - -	<2 - -	<2 - -	----	----
Silver	EG005T	2	mg/kg	----	2000	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	200000	<5 - -	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	200000	<5 - -	<5 - -	<5 - -	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	40	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	200	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	200	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	20	<0.1 - -	<0.1 - -	<0.1 - -	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	30000	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	112000	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	20	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	16000	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	6000	<0.5	<0.5	<0.5	----	----

Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate: Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* **1A**	**QC01**	**QC03**	**----**	**----**
						Sampling date/time 24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	----	----
						EP2503279-016 MU	**EP2503279-017 MU**	**EP2503279-018 MU**	**-------- MU**	**-------- MU**
EP080: BTEXN - Continued										
Total Xylenes	EP080	0.5	mg/kg	----	12000	<0.5	<0.5	<0.5	**----**	**----**

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	500		<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000		<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	100		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	50		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	75		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	10000		**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	18		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080		<0.5	<0.5	<0.5	<0.5	<0.5

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	7A 24-Feb-2025 15:00 **EP2503279-001 MU**	7B 24-Feb-2025 15:00 **EP2503279-002 MU**	7C 24-Feb-2025 15:00 **EP2503279-003 MU**	6A 24-Feb-2025 15:00 **EP2503279-004 MU**	6B 24-Feb-2025 15:00 **EP2503279-005 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	500		<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000		<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	100		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	50		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	75		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	10000		**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	18		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	7A 24-Feb-2025 15:00 **EP2503279-001 MU**	7B 24-Feb-2025 15:00 **EP2503279-002 MU**	7C 24-Feb-2025 15:00 **EP2503279-003 MU**	6A 24-Feb-2025 15:00 **EP2503279-004 MU**	6B 24-Feb-2025 15:00 **EP2503279-005 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	100000		**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	5000		<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	1000		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000		<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000		**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	10000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	30000		<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	1800		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000		**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	100000		<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	1000		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	15000		**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	500		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	750		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	5000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	100000		**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	28000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	180		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	5180		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	10800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	7A 24-Feb-2025 15:00 **EP2503279-001 MU**	7B 24-Feb-2025 15:00 **EP2503279-002 MU**	7C 24-Feb-2025 15:00 **EP2503279-003 MU**	6A 24-Feb-2025 15:00 **EP2503279-004 MU**	6B 24-Feb-2025 15:00 **EP2503279-005 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	18000		<0.5	<0.5	<0.5	<0.5	<0.5

Class 4 - Table 4 Concentration limit (CL4) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	7A	7B	7C	6A	6B
Sample ID										
Sampling date/time						24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
						EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	200000	**1040** ± 140	**920** ± 130	**3670** ± 500	**1610** ± 220	**2120** ± 290
Arsenic	EG005T	5	mg/kg	----	20000	<5 --	<5 --	**5** ± 0.6	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	4000	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000	<2 --	<2 --	**2** ± 0.2	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000	**42** ± 6	**27** ± 4	**64** ± 10	**46** ± 7	**27** ± 4
Molybdenum	EG005T	2	mg/kg	----	40000	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	120000	<2 --	<2 --	**3** ± 0.3	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	7200	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000	**5** ± 0.5	**5** ± 0.5	**10** ± 0.9	**22** ± 2	**27** ± 2
Zinc	EG005T	5	mg/kg	----	200000	<5 --	<5 --	**5** ± 0.5	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	4000	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	60000	**1.1**	**1.2**	**3.8**	**12.2**	**10.6**
Selenium	EG020Y-T	1	mg/kg	----	2000	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	3000	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	2000	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	400000	**120**	**90**	**610**	**200**	**80**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	112000	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	720	<0.2	<0.2	<0.2	<0.2	<0.2

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time* 6C: 24-Feb-2025 15:00 EP2503279-006 MU	5A: 24-Feb-2025 15:00 EP2503279-007 MU	5B: 24-Feb-2025 15:00 EP2503279-008 MU	5C: 24-Feb-2025 15:00 EP2503279-009 MU	4A: 24-Feb-2025 15:00 EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	500	<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100	<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000	**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000	<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000	<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180	<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000	**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	100	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500	**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	50	<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500	<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	10000	**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	<10	<10
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	18	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080	<0.5	<0.5	<0.5	<0.5	<0.5

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
						Sample ID	**EP2503279-006 MU**	**EP2503279-007 MU**	**EP2503279-008 MU**	**EP2503279-009 MU**	**EP2503279-010 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-006 MU	EP2503279-007 MU	EP2503279-008 MU	EP2503279-009 MU	EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	500		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	100		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	50		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	75		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	10000		**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	18		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**6C** 24-Feb-2025 15:00	**5A** 24-Feb-2025 15:00	**5B** 24-Feb-2025 15:00	**5C** 24-Feb-2025 15:00	**4A** 24-Feb-2025 15:00
							EP2503279-006 MU	**EP2503279-007 MU**	**EP2503279-008 MU**	**EP2503279-009 MU**	**EP2503279-010 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-006 MU	EP2503279-007 MU	EP2503279-008 MU	EP2503279-009 MU	EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	100000		**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	5000		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	1000		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000		**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	10000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	30000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	1800		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000		**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	1000		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	15000		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	500		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	750		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	5000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	100000		**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	28000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	180		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	5180		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	10800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**6C** 24-Feb-2025 15:00	**5A** 24-Feb-2025 15:00	**5B** 24-Feb-2025 15:00	**5C** 24-Feb-2025 15:00	**4A** 24-Feb-2025 15:00
							EP2503279-006 MU	**EP2503279-007 MU**	**EP2503279-008 MU**	**EP2503279-009 MU**	**EP2503279-010 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	18000		<0.5	<0.5	<0.5	<0.5	<0.5

Class 4 - Table 4 Concentration limit (CL4) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	6C 24-Feb-2025 15:00 EP2503279-006 MU	5A 24-Feb-2025 15:00 EP2503279-007 MU	5B 24-Feb-2025 15:00 EP2503279-008 MU	5C 24-Feb-2025 15:00 EP2503279-009 MU	4A 24-Feb-2025 15:00 EP2503279-010 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	200000		**2050** ± 280	**1180** ± 160	**2020** ± 280	**1120** ± 150	**6240** ± 860
Arsenic	EG005T	5	mg/kg	----	20000		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	4000		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000		**36** ± 6	**54** ± 8	**23** ± 4	**28** ± 4	**21** ± 3
Molybdenum	EG005T	2	mg/kg	----	40000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	120000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	7200		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000		**30** ± 2	**18** ± 2	**37** ± 3	**22** ± 2	**59** ± 5
Zinc	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	4000		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	60000		**13.9**	**4.6**	**2.1**	**1.1**	**8.0**
Selenium	EG020Y-T	1	mg/kg	----	2000		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	3000		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	2000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	400000		**120**	**80**	**120**	**740**	**170**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	112000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	720		<0.2	<0.2	<0.2	<0.2	<0.2

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	500		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	100		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	50		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	75		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	10000		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	18		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080		<0.5	<0.5	<0.5	<0.5	<0.5

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00 **EP2503279-011 MU**	4C 24-Feb-2025 15:00 **EP2503279-012 MU**	3A 24-Feb-2025 15:00 **EP2503279-013 MU**	3B 24-Feb-2025 15:00 **EP2503279-014 MU**	3C 24-Feb-2025 15:00 **EP2503279-015 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	4B	4C	3A	3B	3C
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-011 MU	EP2503279-012 MU	EP2503279-013 MU	EP2503279-014 MU	EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	50000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	500		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	50000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	100		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	50000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	50000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	50000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	1000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	3000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	180		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	50000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	50000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	100		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	1500		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	50		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	75		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	10000		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	2800		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	18		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	518		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	1080		<0.5	<0.5	<0.5	<0.5	<0.5

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**4B** 24-Feb-2025 15:00	**4C** 24-Feb-2025 15:00	**3A** 24-Feb-2025 15:00	**3B** 24-Feb-2025 15:00	**3C** 24-Feb-2025 15:00
							EP2503279-011 MU	**EP2503279-012 MU**	**EP2503279-013 MU**	**EP2503279-014 MU**	**EP2503279-015 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	4B	4C	3A	3B	3C
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-011 MU	EP2503279-012 MU	EP2503279-013 MU	EP2503279-014 MU	EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	100000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	5000		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	100000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	1000		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	100000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	100000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	100000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	10000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	30000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	1800		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	100000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	100000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	1000		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	15000		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	500		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	750		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	5000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	100000		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	28000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	180		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	EP080	0.5	mg/kg	----	5180		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	EP080	0.5	mg/kg	----	10800		<0.5	<0.5	<0.5	<0.5	<0.5

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	**4B** 24-Feb-2025 15:00	**4C** 24-Feb-2025 15:00	**3A** 24-Feb-2025 15:00	**3B** 24-Feb-2025 15:00	**3C** 24-Feb-2025 15:00
							EP2503279-011 MU	**EP2503279-012 MU**	**EP2503279-013 MU**	**EP2503279-014 MU**	**EP2503279-015 MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	18000		<0.5	<0.5	<0.5	<0.5	<0.5

Class 4 - Table 4 Concentration limit (CL4) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	200000		**5430** ± 750	**4810** ± 660	**6410** ± 880	**3550** ± 490	**9780** ± 1350
Arsenic	EG005T	5	mg/kg	----	20000		<5 --	<5 --	<5 --	<5 --	<5 --
Barium	EG005T	10	mg/kg	----	200000		<10 --	<10 --	<10 --	<10 --	<10 --
Beryllium	EG005T	1	mg/kg	----	4000		<1	<1	<1	<1	<1
Boron	EG005T	50	mg/kg	----	200000		<50 --	<50 --	<50 --	<50 --	<50 --
Cobalt	EG005T	2	mg/kg	----	200000		<2 --	<2 --	<2 --	<2 --	<2 --
Copper	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
Manganese	EG005T	5	mg/kg	----	200000		**17** ± 3	**17** ± 3	**14** ± 2	**7** ± 1	**23** ± 3
Molybdenum	EG005T	2	mg/kg	----	40000		<2	<2	<2	<2	<2
Nickel	EG005T	2	mg/kg	----	120000		<2 --	<2 --	<2 --	<2 --	<2 --
Silver	EG005T	2	mg/kg	----	7200		<2	<2	<2	<2	<2
Vanadium	EG005T	5	mg/kg	----	200000		**55** ± 5	**39** ± 3	**79** ± 7	**38** ± 3	**71** ± 6
Zinc	EG005T	5	mg/kg	----	200000		<5 --	<5 --	<5 --	<5 --	<5 --
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	4000		<0.1	<0.1	<0.1	<0.1	<0.1
Lead	EG020X-T	0.1	mg/kg	----	60000		**6.6**	**5.5**	**9.7**	**5.0**	**8.3**
Selenium	EG020Y-T	1	mg/kg	----	2000		<1	<1	<1	<1	<1
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	3000		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	2000		<0.5	<0.5	<0.5	<0.5	<0.5
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	400000		**70**	**80**	**380**	**90**	**270**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200		<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000		<0.5	<0.5	<0.5	<0.5	<0.5
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	112000		<10	<10	<10	<10	<10
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	720		<0.2	<0.2	<0.2	<0.2	<0.2

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: 1A Sampling date/time: 24-Feb-2025 15:00 EP2503279-016 MU	Sample ID: QC01 Sampling date/time: 24-Feb-2025 15:00 EP2503279-017 MU	Sample ID: QC03 Sampling date/time: 24-Feb-2025 15:00 EP2503279-018 MU	Sample ID: ---- Sampling date/time: ---- -------- MU	Sample ID: ---- Sampling date/time: ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	500	<5 --	<5 --	<5 --	----	----
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	----	----
Beryllium	EG005T	1	mg/kg	----	100	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	----	----
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	----	----
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
Manganese	EG005T	5	mg/kg	----	50000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	1000	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	3000	<2 --	<2 --	<2 --	----	----
Silver	EG005T	2	mg/kg	----	180	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	50000	<5 --	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	100	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	1500	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	50	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	10000	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	18	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	518	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	1080	<0.5	<0.5	<0.5	----	----

Class 1 - Table 4 Concentration limit (CL1) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*				
						1A / 24-Feb-2025 15:00	**QC01** / 24-Feb-2025 15:00	**QC03** / 24-Feb-2025 15:00	**----** / ----	**----** / ----
						EP2503279-016 MU	**EP2503279-017 MU**	**EP2503279-018 MU**	**-------- MU**	**-------- MU**
EP080: BTEXN - Continued										
Total Xylenes	EP080	0.5	mg/kg	----	1800	<0.5	<0.5	<0.5	**----**	**----**

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: 1A Sampling date/time: 24-Feb-2025 15:00 EP2503279-016 MU	Sample ID: QC01 Sampling date/time: 24-Feb-2025 15:00 EP2503279-017 MU	Sample ID: QC03 Sampling date/time: 24-Feb-2025 15:00 EP2503279-018 MU	Sample ID: ---- Sampling date/time: ---- -------- MU	Sample ID: ---- Sampling date/time: ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	50000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	500	<5 --	<5 --	<5 --	----	----
Barium	EG005T	10	mg/kg	----	50000	<10 --	<10 --	<10 --	----	----
Beryllium	EG005T	1	mg/kg	----	100	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	50000	<50 --	<50 --	<50 --	----	----
Cobalt	EG005T	2	mg/kg	----	50000	<2 --	<2 --	<2 --	----	----
Copper	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
Manganese	EG005T	5	mg/kg	----	50000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	1000	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	3000	<2 --	<2 --	<2 --	----	----
Silver	EG005T	2	mg/kg	----	180	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	50000	<5 --	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	50000	<5 --	<5 --	<5 --	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	100	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	1500	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	50	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	500	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	10000	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	5	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	100	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	2800	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	18	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	518	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	1080	<0.5	<0.5	<0.5	----	----

Class 2 - Table 4 Concentration limit (CL2) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID*	**1A**	**QC01**	**QC03**	**----**	**----**
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	----	----
							EP2503279-016 MU	**EP2503279-017 MU**	**EP2503279-018 MU**	**-------- MU**	**-------- MU**
EP080: BTEXN - Continued											
Total Xylenes	EP080	0.5	mg/kg	----	1800		<0.5	<0.5	<0.5	**----**	**----**

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: 1A Sampling date/time: 24-Feb-2025 15:00 EP2503279-016 MU	Sample ID: QC01 Sampling date/time: 24-Feb-2025 15:00 EP2503279-017 MU	Sample ID: QC03 Sampling date/time: 24-Feb-2025 15:00 EP2503279-018 MU	Sample ID: ---- Sampling date/time: ---- -------- MU	Sample ID: ---- Sampling date/time: ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES										
Aluminium	EG005T	50	mg/kg	----	100000	**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	5000	<5 --	<5 --	<5 --	----	----
Barium	EG005T	10	mg/kg	----	100000	<10 --	<10 --	<10 --	----	----
Beryllium	EG005T	1	mg/kg	----	1000	<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	100000	<50 --	<50 --	<50 --	----	----
Cobalt	EG005T	2	mg/kg	----	100000	<2 --	<2 --	<2 --	----	----
Copper	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	----	----
Manganese	EG005T	5	mg/kg	----	100000	**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	10000	<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	30000	<2 --	<2 --	<2 --	----	----
Silver	EG005T	2	mg/kg	----	1800	<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	100000	<5 --	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	100000	<5 --	<5 --	<5 --	----	----
EG020T: Total Metals by ICP-MS										
Cadmium	EG020Y-T	0.1	mg/kg	----	1000	<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	15000	**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	500	<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	750	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	0.5	mg/kg	----	5000	<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser										
Fluoride	EK040T-P	40	mg/kg	----	100000	**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	50	<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	1000	<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	10	mg/kg	----	28000	<10	<10	<10	----	----
EP080: BTEXN										
Benzene	EP080	0.2	mg/kg	----	180	<0.2	<0.2	<0.2	----	----
Toluene	EP080	0.5	mg/kg	----	5180	<0.5	<0.5	<0.5	----	----
Ethylbenzene	EP080	0.5	mg/kg	----	10800	<0.5	<0.5	<0.5	----	----

Class 3 - Table 4 Concentration limit (CL3) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*				
						1A / 24-Feb-2025 15:00	**QC01** / 24-Feb-2025 15:00	**QC03** / 24-Feb-2025 15:00	**----** / ----	**----** / ----
						EP2503279-016 MU	**EP2503279-017 MU**	**EP2503279-018 MU**	**-------- MU**	**-------- MU**
EP080: BTEXN - Continued										
Total Xylenes	EP080	0.5	mg/kg	----	18000	<0.5	<0.5	<0.5	**----**	**----**

Class 4 - Table 4 Concentration limit (CL4) values for waste classification: WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*	1A 24-Feb-2025 15:00 EP2503279-016 MU	QC01 24-Feb-2025 15:00 EP2503279-017 MU	QC03 24-Feb-2025 15:00 EP2503279-018 MU	---- ---- -------- MU	---- ---- -------- MU
EG005(ED093)T: Total Metals by ICP-AES											
Aluminium	EG005T	50	mg/kg	----	200000		**630** ± 90	**980** ± 130	**9830** ± 1360	----	----
Arsenic	EG005T	5	mg/kg	----	20000		<5 - -	<5 - -	<5 - -	----	----
Barium	EG005T	10	mg/kg	----	200000		<10 - -	<10 - -	<10 - -	----	----
Beryllium	EG005T	1	mg/kg	----	4000		<1	<1	<1	----	----
Boron	EG005T	50	mg/kg	----	200000		<50 - -	<50 - -	<50 - -	----	----
Cobalt	EG005T	2	mg/kg	----	200000		<2 - -	<2 - -	<2 - -	----	----
Copper	EG005T	5	mg/kg	----	200000		<5 - -	<5 - -	<5 - -	----	----
Manganese	EG005T	5	mg/kg	----	200000		**24** ± 4	**28** ± 4	**25** ± 4	----	----
Molybdenum	EG005T	2	mg/kg	----	40000		<2	<2	<2	----	----
Nickel	EG005T	2	mg/kg	----	120000		<2 - -	<2 - -	<2 - -	----	----
Silver	EG005T	2	mg/kg	----	7200		<2	<2	<2	----	----
Vanadium	EG005T	5	mg/kg	----	200000		<5 - -	**5** ± 0.4	**74** ± 6	----	----
Zinc	EG005T	5	mg/kg	----	200000		<5 - -	<5 - -	<5 - -	----	----
EG020T: Total Metals by ICP-MS											
Cadmium	EG020Y-T	0.1	mg/kg	----	4000		<0.1	<0.1	<0.1	----	----
Lead	EG020X-T	0.1	mg/kg	----	60000		**1.3**	**1.0**	**10.6**	----	----
Selenium	EG020Y-T	1	mg/kg	----	2000		<1	<1	<1	----	----
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	3000		<0.1 - -	<0.1 - -	<0.1 - -	----	----
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	0.5	mg/kg	----	2000		<0.5	<0.5	<0.5	----	----
EK040T-P: Total Fluoride by Auto Analyser											
Fluoride	EK040T-P	40	mg/kg	----	400000		**110**	**250**	**80**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Benzo(a)pyrene	EP075(SIM)	0.5	mg/kg	----	200		<0.5	<0.5	<0.5	----	----
Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	mg/kg	----	4000		<0.5	<0.5	<0.5	----	----
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP080	10	mg/kg	----	112000		<10	<10	<10	----	----
EP080: BTEXN											
Benzene	EP080	0.2	mg/kg	----	720		<0.2	<0.2	<0.2	----	----

No Guideline Evaluation Required

Sub-Matrix: **ACETIC ACID LEACHATE**

Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	*Sample ID* / *Sampling date/time*									
						6C		**5A**		**4A**		**4C**		**3A**	
						24-Feb-2025 15:00		24-Feb-2025 15:00		24-Feb-2025 15:00		24-Feb-2025 15:00		24-Feb-2025 15:00	
						EP2503279-006 MU		**EP2503279-007 MU**		**EP2503279-010 MU**		**EP2503279-012 MU**		**EP2503279-013 MU**	
EG005(ED093)C: Leachable Metals by ICPAES															
Lead	EG005C	0.1	mg/L	----	----	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--
Nickel	EG005C	0.1	mg/L	----	----	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EA002: pH 1:5 (Soils)											
pH Value	EA002	0.1	pH Unit	----	----		**9.4** ± 0.09	**9.5** ± 0.09	**9.2** ± 0.09	**7.9** ± 0.08	**6.8** ± 0.07
EA055: Moisture Content (Dried @ 105-110°C)											
Moisture Content	EA055	1.0	%	----	----		**7.8** ± 0.7	**8.2** ± 0.8	**9.2** ± 0.9	**9.2** ± 0.9	**9.9** ± 0.9
ED040S: Soluble Major Anions											
Sulfate as SO4 2-	ED040S	10	mg/kg	----	----		**30** ± 3	**10** ± 1	**90** ± 9	<10 --	**10** ± 1
ED045G: Chloride by Discrete Analyser											
Chloride	ED045G	10	mg/kg	----	----		**410** ± 30	**40** ± 3	<10 --	<10 --	<10 --
EK055: Ammonia as N											
Ammonia as N	EK055	20	mg/kg	----	----		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser											
Nitrite as N (Sol.)	EK057G	0.1	mg/kg	----	----		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EK058G: Nitrate as N by Discrete Analyser											
Nitrate as N (Sol.)	EK058G	0.1	mg/kg	----	----		**1.4**	**0.2**	**0.1**	<0.1	**0.1**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser											
Nitrite + Nitrate as N (Sol.)	EK059G	0.1	mg/kg	----	----		**1.4** ± 0.08	**0.2** ± 0.03	**0.1** ± 0.03	<0.1 --	**0.1** ± 0.03
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser											
Total Kjeldahl Nitrogen as N	EK061G	20	mg/kg	----	----		<20	<20	**80**	**20**	**40**
EK062: Total Nitrogen as N (TKN + NOx)											
^ Total Nitrogen as N	EK062G	20	mg/kg	----	----		<20	<20	**80**	**20**	**40**
EK067G: Total Phosphorus as P by Discrete Analyser											
Total Phosphorus as P	EK067G	2	mg/kg	----	----		**105**	**87**	**178**	**138**	**125**
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)											
After HCl pH	EN60a-G	0.1	pH Unit	----	----		**----**	**----**	**----**	**----**	**----**
Extraction Fluid pH	EN60a-G	0.1	pH Unit	----	----		**----**	**----**	**----**	**----**	**----**
Final pH	EN60a-G	0.1	pH Unit	----	----		**----**	**----**	**----**	**----**	**----**
Initial pH	EN60a-G	0.1	pH Unit	----	----		**----**	**----**	**----**	**----**	**----**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Naphthalene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	7A	7B	7C	6A	6B
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-001 MU	EP2503279-002 MU	EP2503279-003 MU	EP2503279-004 MU	EP2503279-005 MU
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued											
Fluoranthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	EP075(SIM)	0.5	mg/kg	----	----		**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	EP075(SIM)	0.5	mg/kg	----	----		**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons											
C10 - C14 Fraction	EP071	50	mg/kg	----	----		<50	<50	<50	<50	<50
C15 - C28 Fraction	EP071	100	mg/kg	----	----		<100	<100	<100	<100	<100
C29 - C36 Fraction	EP071	100	mg/kg	----	----		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	EP071	50	mg/kg	----	----		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions											
C6 - C10 Fraction	EP080	10	mg/kg	----	----		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	EP080	10	mg/kg	----	----		<10	<10	<10	<10	<10
>C10 - C16 Fraction	EP071	50	mg/kg	----	----		<50	<50	<50	<50	<50
>C16 - C34 Fraction	EP071	100	mg/kg	----	----		<100	<100	<100	<100	<100
>C34 - C40 Fraction	EP071	100	mg/kg	----	----		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	EP071	50	mg/kg	----	----		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	EP071	50	mg/kg	----	----		<50	<50	<50	<50	<50
EP080: BTEXN											
meta- & para-Xylene	EP080	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	EP080	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	EP080	0.2	mg/kg	----	----		<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	EP080	1	mg/kg	----	----		<1	<1	<1	<1	<1

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	6C	5A	5B	5C	4A
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-006 MU	EP2503279-007 MU	EP2503279-008 MU	EP2503279-009 MU	EP2503279-010 MU
EA002: pH 1:5 (Soils)											
pH Value	EA002	0.1	pH Unit	----	----		**5.8** ± 0.06	**5.2** ± 0.05	**5.2** ± 0.05	**5.2** ± 0.05	**5.6** ± 0.06
EA055: Moisture Content (Dried @ 105-110°C)											
Moisture Content	EA055	1.0	%	----	----		**10.5** ± 1.0	**11.7** ± 1.1	**16.9** ± 1.6	**13.8** ± 1.3	**15.3** ± 1.4
ED040S: Soluble Major Anions											
Sulfate as SO4 2-	ED040S	10	mg/kg	----	----		**10** ± 1	**10** ± 1	**20** ± 2	<10 --	**40** ± 4
ED045G: Chloride by Discrete Analyser											
Chloride	ED045G	10	mg/kg	----	----		<10 --	<10 --	<10 --	<10 --	<10 --
EK055: Ammonia as N											
Ammonia as N	EK055	20	mg/kg	----	----		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser											
Nitrite as N (Sol.)	EK057G	0.1	mg/kg	----	----		<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EK058G: Nitrate as N by Discrete Analyser											
Nitrate as N (Sol.)	EK058G	0.1	mg/kg	----	----		**0.1**	**0.1**	<0.1	**0.1**	**0.1**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser											
Nitrite + Nitrate as N (Sol.)	EK059G	0.1	mg/kg	----	----		**0.1** ± 0.03	**0.1** ± 0.03	<0.1 --	**0.1** ± 0.03	**0.1** ± 0.03
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser											
Total Kjeldahl Nitrogen as N	EK061G	20	mg/kg	----	----		**40**	<20	<20	<20	**100**
EK062: Total Nitrogen as N (TKN + NOx)											
^ Total Nitrogen as N	EK062G	20	mg/kg	----	----		**40**	<20	<20	<20	**100**
EK067G: Total Phosphorus as P by Discrete Analyser											
Total Phosphorus as P	EK067G	2	mg/kg	----	----		**311**	**239**	**227**	**226**	**95**
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)											
Initial pH	EN60a-G	0.1	pH Unit	----	----		**6.1**	**5.4**	**----**	**----**	**5.6**
After HCl pH	EN60a-G	0.1	pH Unit	----	----		**1.1**	**1.2**	**----**	**----**	**1.1**
Extraction Fluid pH	EN60a-G	0.1	pH Unit	----	----		**5.0**	**5.0**	**----**	**----**	**5.0**
Final pH	EN60a-G	0.1	pH Unit	----	----		**5.1**	**5.1**	**----**	**----**	**5.1**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Naphthalene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	6C 24-Feb-2025 15:00 EP2503279-006 MU	5A 24-Feb-2025 15:00 EP2503279-007 MU	5B 24-Feb-2025 15:00 EP2503279-008 MU	5C 24-Feb-2025 15:00 EP2503279-009 MU	4A 24-Feb-2025 15:00 EP2503279-010 MU
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued										
Fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	EP075(SIM)	0.5	mg/kg	----	----	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	EP075(SIM)	0.5	mg/kg	----	----	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C14 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
C15 - C28 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
C29 - C36 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
C6 - C10 Fraction	EP080	10	mg/kg	----	----	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	EP080	10	mg/kg	----	----	<10	<10	<10	<10	<10
>C10 - C16 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
>C16 - C34 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
>C34 - C40 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
EP080: BTEXN										
meta- & para-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	EP080	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	EP080	1	mg/kg	----	----	<1	<1	<1	<1	<1

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID	4B	4C	3A	3B	3C
						Sampling date/time	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00	24-Feb-2025 15:00
							EP2503279-011 MU	EP2503279-012 MU	EP2503279-013 MU	EP2503279-014 MU	EP2503279-015 MU
EA002: pH 1:5 (Soils)											
pH Value	EA002	0.1	pH Unit	----	----		**6.3** ± 0.06	**6.3** ± 0.06	**5.5** ± 0.06	**4.5** ± 0.04	**5.7** ± 0.06
EA055: Moisture Content (Dried @ 105-110°C)											
Moisture Content	EA055	1.0	%	----	----		**11.0** ± 1.0	**10.0** ± 0.9	**17.8** ± 1.7	**14.8** ± 1.4	**14.8** ± 1.4
ED040S: Soluble Major Anions											
Sulfate as SO4 2-	ED040S	10	mg/kg	----	----		<10 - -	<10 - -	**20** ± 2	**10** ± 1	**10** ± 1
ED045G: Chloride by Discrete Analyser											
Chloride	ED045G	10	mg/kg	----	----		<10 - -	<10 - -	<10 - -	<10 - -	<10 - -
EK055: Ammonia as N											
Ammonia as N	EK055	20	mg/kg	----	----		<20	<20	<20	<20	<20
EK057G: Nitrite as N by Discrete Analyser											
Nitrite as N (Sol.)	EK057G	0.1	mg/kg	----	----		<0.1 - -	<0.1 - -	<0.1 - -	<0.1 - -	<0.1 - -
EK058G: Nitrate as N by Discrete Analyser											
Nitrate as N (Sol.)	EK058G	0.1	mg/kg	----	----		**0.2**	**0.3**	**0.1**	**0.4**	**0.2**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser											
Nitrite + Nitrate as N (Sol.)	EK059G	0.1	mg/kg	----	----		**0.2** ± 0.03	**0.3** ± 0.04	**0.1** ± 0.03	**0.4** ± 0.04	**0.2** ± 0.03
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser											
Total Kjeldahl Nitrogen as N	EK061G	20	mg/kg	----	----		**100**	**140**	**90**	**50**	**120**
EK062: Total Nitrogen as N (TKN + NOx)											
^ Total Nitrogen as N	EK062G	20	mg/kg	----	----		**100**	**140**	**90**	**50**	**120**
EK067G: Total Phosphorus as P by Discrete Analyser											
Total Phosphorus as P	EK067G	2	mg/kg	----	----		**88**	**85**	**74**	**59**	**97**
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)											
Initial pH	EN60a-G	0.1	pH Unit	----	----		**----**	**6.3**	**5.6**	**----**	**----**
After HCl pH	EN60a-G	0.1	pH Unit	----	----		**----**	**1.1**	**1.1**	**----**	**----**
Extraction Fluid pH	EN60a-G	0.1	pH Unit	----	----		**----**	**5.0**	**5.0**	**----**	**----**
Final pH	EN60a-G	0.1	pH Unit	----	----		**----**	**5.1**	**5.1**	**----**	**----**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons											
Naphthalene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	EP075(SIM)	0.5	mg/kg	----	----		<0.5	<0.5	<0.5	<0.5	<0.5

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	4B 24-Feb-2025 15:00 EP2503279-011 MU	4C 24-Feb-2025 15:00 EP2503279-012 MU	3A 24-Feb-2025 15:00 EP2503279-013 MU	3B 24-Feb-2025 15:00 EP2503279-014 MU	3C 24-Feb-2025 15:00 EP2503279-015 MU
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued										
Fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(k)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	EP075(SIM)	0.5	mg/kg	----	----	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
^ Benzo(a)pyrene TEQ (LOR)	EP075(SIM)	0.5	mg/kg	----	----	**1.2**	**1.2**	**1.2**	**1.2**	**1.2**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C14 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
C15 - C28 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
C29 - C36 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
C6 - C10 Fraction	EP080	10	mg/kg	----	----	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	EP080	10	mg/kg	----	----	<10	<10	<10	<10	<10
>C10 - C16 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
>C16 - C34 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
>C34 - C40 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	EP071	50	mg/kg	----	----	<50	<50	<50	<50	<50
EP080: BTEXN										
meta- & para-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	EP080	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	EP080	1	mg/kg	----	----	<1	<1	<1	<1	<1

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: 1A Sampling date/time: 24-Feb-2025 15:00 EP2503279-016 MU	Sample ID: QC01 Sampling date/time: 24-Feb-2025 15:00 EP2503279-017 MU	Sample ID: QC03 Sampling date/time: 24-Feb-2025 15:00 EP2503279-018 MU	Sample ID: ---- Sampling date/time: ---- -------- MU	Sample ID: ---- Sampling date/time: ---- -------- MU
EA002: pH 1:5 (Soils)										
pH Value	EA002	0.1	pH Unit	----	----	**9.2** ± 0.09	**9.4** ± 0.09	**8.1** ± 0.08	----	----
EA055: Moisture Content (Dried @ 105-110°C)										
Moisture Content	EA055	1.0	%	----	----	**5.4** ± 0.5	**8.1** ± 0.8	**16.0** ± 1.5	----	----
ED040S: Soluble Major Anions										
Sulfate as SO4 2-	ED040S	10	mg/kg	----	----	**20** ± 2	**10** ± 1	**10** ± 1	----	----
ED045G: Chloride by Discrete Analyser										
Chloride	ED045G	10	mg/kg	----	----	<10 - -	**40** ± 4	<10 - -	----	----
EK055: Ammonia as N										
Ammonia as N	EK055	20	mg/kg	----	----	<20	<20	<20	----	----
EK057G: Nitrite as N by Discrete Analyser										
Nitrite as N (Sol.)	EK057G	0.1	mg/kg	----	----	<0.1 - -	<0.1 - -	<0.1 - -	----	----
EK058G: Nitrate as N by Discrete Analyser										
Nitrate as N (Sol.)	EK058G	0.1	mg/kg	----	----	**0.1**	**0.2**	**0.2**	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser										
Nitrite + Nitrate as N (Sol.)	EK059G	0.1	mg/kg	----	----	**0.1** ± 0.03	**0.2** ± 0.03	**0.2** ± 0.03	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser										
Total Kjeldahl Nitrogen as N	EK061G	20	mg/kg	----	----	<20	<20	**100**	----	----
EK062: Total Nitrogen as N (TKN + NOx)										
^ Total Nitrogen as N	EK062G	20	mg/kg	----	----	<20	<20	**100**	----	----
EK067G: Total Phosphorus as P by Discrete Analyser										
Total Phosphorus as P	EK067G	2	mg/kg	----	----	**78**	**91**	**95**	----	----
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)										
After HCl pH	EN60a-G	0.1	pH Unit	----	----	----	----	----	----	----
Extraction Fluid pH	EN60a-G	0.1	pH Unit	----	----	----	----	----	----	----
Final pH	EN60a-G	0.1	pH Unit	----	----	----	----	----	----	----
Initial pH	EN60a-G	0.1	pH Unit	----	----	----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Naphthalene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Acenaphthylene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Acenaphthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Fluorene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Phenanthrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----

No Guideline Evaluation Required

Sub-Matrix: **SOIL**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: 1A Sampling date/time: 24-Feb-2025 15:00 EP2503279-016 MU	Sample ID: QC01 Sampling date/time: 24-Feb-2025 15:00 EP2503279-017 MU	Sample ID: QC03 Sampling date/time: 24-Feb-2025 15:00 EP2503279-018 MU	Sample ID: ---- Sampling date/time: ---- -------- MU	Sample ID: ---- Sampling date/time: ---- -------- MU
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued										
Fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Chrysene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	EP075(SIM)	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	EP075(SIM)	0.5	mg/kg	----	----	**0.6**	**0.6**	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	EP075(SIM)	0.5	mg/kg	----	----	**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons										
C10 - C14 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	----	----
C15 - C28 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	----	----
C29 - C36 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
C6 - C10 Fraction	EP080	10	mg/kg	----	----	<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	EP080	10	mg/kg	----	----	<10	<10	<10	----	----
>C10 - C16 Fraction	EP071	50	mg/kg	----	----	<50	<50	<50	----	----
>C16 - C34 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	----	----
>C34 - C40 Fraction	EP071	100	mg/kg	----	----	<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	EP071	50	mg/kg	----	----	<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	EP071	50	mg/kg	----	----	<50	<50	<50	----	----
EP080: BTEXN										
meta- & para-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
ortho-Xylene	EP080	0.5	mg/kg	----	----	<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	EP080	0.2	mg/kg	----	----	<0.2	<0.2	<0.2	----	----
Naphthalene	EP080	1	mg/kg	----	----	<1	<1	<1	----	----

No Guideline Evaluation Required

Sub-Matrix: **WATER**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: RB01	----	----	----	----
						Sampling date/time: 24-Feb-2025 15:00	----	----	----	----
						EP2503279-019 MU	-------- MU	-------- MU	-------- MU	-------- MU
ED041G: Sulfate (Turbidimetric) as S by DA										
Sulfate as S - Turbidimetric	ED041G	1	mg/L	----	----	<1	----	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA										
Sulfate as SO4 - Turbidimetric	ED041G	1	mg/L	----	----	<1 - -	----	----	----	----
ED045G: Chloride by Discrete Analyser										
Chloride	ED045G	1	mg/L	----	----	<1 - -	----	----	----	----
EG020T: Total Metals by ICP-MS										
Aluminium	EG020A-T	0.01	mg/L	----	----	<0.01 - -	----	----	----	----
Arsenic	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Boron	EG020A-T	0.05	mg/L	----	----	<0.05 - -	----	----	----	----
Barium	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Beryllium	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Cadmium	EG020A-T	0.0001	mg/L	----	----	<0.0001	----	----	----	----
Cobalt	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Chromium	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Copper	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Manganese	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Nickel	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Lead	EG020A-T	0.001	mg/L	----	----	<0.001 - -	----	----	----	----
Selenium	EG020A-T	0.01	mg/L	----	----	<0.01 - -	----	----	----	----
Vanadium	EG020A-T	0.01	mg/L	----	----	<0.01 - -	----	----	----	----
Zinc	EG020A-T	0.005	mg/L	----	----	<0.005 - -	----	----	----	----
Molybdenum	EG020A-T	0.001	mg/L	----	----	<0.001	----	----	----	----
Silver	EG020B-T	0.001	mg/L	----	----	<0.001	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.0001	mg/L	----	----	<0.0001 - -	----	----	----	----
EG050T: Total Hexavalent Chromium										
Hexavalent Chromium	EG050G-T	0.01	mg/L	----	----	<0.01 - -	----	----	----	----
EK040P: Fluoride by PC Titrator										
Fluoride	EK040P	0.1	mg/L	----	----	<0.1	----	----	----	----
EK055G: Ammonia as N by Discrete Analyser										
Ammonia as N	EK055G	0.01	mg/L	----	----	<0.01 - -	----	----	----	----
EK057G: Nitrite as N by Discrete Analyser										
Nitrite as N	EK057G	0.01	mg/L	----	----	<0.01 - -	----	----	----	----

No Guideline Evaluation Required

Sub-Matrix: **WATER**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: RB01	----	----	----	----
						Sampling date/time: 24-Feb-2025 15:00	----	----	----	----
						EP2503279-019 MU	-------- MU	-------- MU	-------- MU	-------- MU
EK058G: Nitrate as N by Discrete Analyser										
Nitrate as N	EK058G	0.01	mg/L	----	----	<0.01	----	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser										
Nitrite + Nitrate as N	EK059G	0.01	mg/L	----	----	<0.01	----	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser										
Total Kjeldahl Nitrogen as N	EK061G	0.1	mg/L	----	----	<0.1	----	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser										
^ Total Nitrogen as N	EK062G	0.1	mg/L	----	----	<0.1	----	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser										
Total Phosphorus as P	EK067G	0.01	mg/L	----	----	<0.01	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons										
Naphthalene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Acenaphthylene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Acenaphthene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Fluorene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Phenanthrene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Anthracene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Fluoranthene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Pyrene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Benz(a)anthracene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Chrysene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Benzo(b+j)fluoranthene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Benzo(k)fluoranthene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Benzo(a)pyrene	EP075(SIM)	0.5	µg/L	----	----	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Dibenz(a.h)anthracene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
Benzo(g.h.i)perylene	EP075(SIM)	1.0	µg/L	----	----	<1.0	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	EP075(SIM)	0.5	µg/L	----	----	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	EP075(SIM)	0.5	µg/L	----	----	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP080	20	µg/L	----	----	<20	----	----	----	----
C10 - C14 Fraction	EP071	50	µg/L	----	----	<50	----	----	----	----
C15 - C28 Fraction	EP071	100	µg/L	----	----	<100	----	----	----	----

No Guideline Evaluation Required

Sub-Matrix: **WATER**

Compound	Method	LOR	Unit	Lower Limit	Upper Limit	Sample ID: RB01	----	----	----	----
						Sampling date/time: 24-Feb-2025 15:00	----	----	----	----
						EP2503279-019 MU	-------- MU	-------- MU	-------- MU	-------- MU
EP080/071: Total Petroleum Hydrocarbons - Continued										
C29 - C36 Fraction	EP071	50	µg/L	----	----	<50	----	----	----	----
^ C10 - C36 Fraction (sum)	EP071	50	µg/L	----	----	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions										
C6 - C10 Fraction	EP080	20	µg/L	----	----	<20	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	EP080	20	µg/L	----	----	<20	----	----	----	----
>C10 - C16 Fraction	EP071	100	µg/L	----	----	<100	----	----	----	----
>C16 - C34 Fraction	EP071	100	µg/L	----	----	<100	----	----	----	----
>C34 - C40 Fraction	EP071	100	µg/L	----	----	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	EP071	100	µg/L	----	----	<100	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	EP071	100	µg/L	----	----	<100	----	----	----	----
EP080: BTEXN										
Benzene	EP080	1	µg/L	----	----	<1	----	----	----	----
Toluene	EP080	2	µg/L	----	----	<2	----	----	----	----
Ethylbenzene	EP080	2	µg/L	----	----	<2	----	----	----	----
meta- & para-Xylene	EP080	2	µg/L	----	----	<2	----	----	----	----
ortho-Xylene	EP080	2	µg/L	----	----	<2	----	----	----	----
^ Total Xylenes	EP080	2	µg/L	----	----	<2	----	----	----	----
^ Sum of BTEX	EP080	1	µg/L	----	----	<1	----	----	----	----
Naphthalene	EP080	5	µg/L	----	----	<5	----	----	----	----

Summary of non-compliances against the WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

				Limits
Sample: EP2503279003 7C				
Fluoride	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	610 mg/kg	< 300 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 300 mg/kg
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	3.8 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279004 6A				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	12.2 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279005 6B				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	10.6 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279006 6C				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	13.9 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279007 5A				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	4.6 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279008 5B				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	2.1 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279009 5C				
Fluoride	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	740 mg/kg	< 300 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 300 mg/kg
Sample: EP2503279010 4A				
Lead	No summary description available for this compound in this guideline.	**Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate**	8.0 mg/kg	< 2 mg/kg

Summary of non-compliances against the WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

				Limits
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279011 4B				
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	6.6 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279012 4C				
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	5.5 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279013 3A				
Fluoride	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	380 mg/kg	< 300 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 300 mg/kg
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	9.7 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279014 3B				
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	5.0 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279015 3C				
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	8.3 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg
Sample: EP2503279018 QC03				
Lead	No summary description available for this compound in this guideline.	Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate	10.6 mg/kg	< 2 mg/kg
		Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		< 2 mg/kg

Guideline values - WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

		Limits
Class I - Table 3 Contaminant threshold (CT1) values for waste not requiring leachate		
Aluminium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Arsenic:	No overview description available for this compound in this guideline.	< 14 mg/kg
Barium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Benzene:	No overview description available for this compound in this guideline.	< 0.2 mg/kg
Benzo(a)pyrene:	No overview description available for this compound in this guideline.	< 5 mg/kg
Beryllium:	No overview description available for this compound in this guideline.	< 2 mg/kg
Boron:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
C6 - C9 Fraction:	No overview description available for this compound in this guideline.	< 2,800 mg/kg
Cadmium:	No overview description available for this compound in this guideline.	< 0.4 mg/kg
Cobalt:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Copper:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Ethylbenzene:	No overview description available for this compound in this guideline.	< 60 mg/kg
Fluoride:	No overview description available for this compound in this guideline.	< 300 mg/kg
Hexavalent Chromium:	No overview description available for this compound in this guideline.	< 10 mg/kg
Lead:	No overview description available for this compound in this guideline.	< 2 mg/kg
Manganese:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Mercury:	No overview description available for this compound in this guideline.	< 0.2 mg/kg
Molybdenum:	No overview description available for this compound in this guideline.	< 10 mg/kg
Nickel:	No overview description available for this compound in this guideline.	< 4 mg/kg
Selenium:	No overview description available for this compound in this guideline.	< 2 mg/kg
Silver:	No overview description available for this compound in this guideline.	< 20 mg/kg
Sum of polycyclic aromatic hydrocarbons:	No overview description available for this compound in this guideline.	< 100 mg/kg
Toluene:	No overview description available for this compound in this guideline.	< 160 mg/kg
Vanadium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Zinc:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		
Aluminium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Arsenic:	No overview description available for this compound in this guideline.	< 14 mg/kg
Barium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Benzene:	No overview description available for this compound in this guideline.	< 0.2 mg/kg
Benzo(a)pyrene:	No overview description available for this compound in this guideline.	< 5 mg/kg

Guideline values - WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

		Limits
Class II - Table 3 Contaminant threshold (CT2) values for waste not requiring leachate		
Beryllium:	No overview description available for this compound in this guideline.	< 2 mg/kg
Boron:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
C6 - C9 Fraction:	No overview description available for this compound in this guideline.	< 2,800 mg/kg
Cadmium:	No overview description available for this compound in this guideline.	< 0.4 mg/kg
Cobalt:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Copper:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Ethylbenzene:	No overview description available for this compound in this guideline.	< 60 mg/kg
Fluoride:	No overview description available for this compound in this guideline.	< 300 mg/kg
Hexavalent Chromium:	No overview description available for this compound in this guideline.	< 10 mg/kg
Lead:	No overview description available for this compound in this guideline.	< 2 mg/kg
Manganese:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Mercury:	No overview description available for this compound in this guideline.	< 0.2 mg/kg
Molybdenum:	No overview description available for this compound in this guideline.	< 10 mg/kg
Nickel:	No overview description available for this compound in this guideline.	< 4 mg/kg
Selenium:	No overview description available for this compound in this guideline.	< 2 mg/kg
Silver:	No overview description available for this compound in this guideline.	< 20 mg/kg
Sum of polycyclic aromatic hydrocarbons:	No overview description available for this compound in this guideline.	< 100 mg/kg
Toluene:	No overview description available for this compound in this guideline.	< 160 mg/kg
Vanadium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Zinc:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate		
Aluminium:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Arsenic:	No overview description available for this compound in this guideline.	< 140 mg/kg
Barium:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Benzene:	No overview description available for this compound in this guideline.	< 2 mg/kg
Benzo(a)pyrene:	No overview description available for this compound in this guideline.	< 50 mg/kg
Beryllium:	No overview description available for this compound in this guideline.	< 20 mg/kg
Boron:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
C6 - C9 Fraction:	No overview description available for this compound in this guideline.	< 28,000 mg/kg
Cadmium:	No overview description available for this compound in this guideline.	< 4 mg/kg
Cobalt:	No overview description available for this compound in this guideline.	< 100,000 mg/kg

Guideline values - WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

		Limits
Class III - Table 3 Contaminant threshold (CT3) values for waste not requiring leachate		
Copper:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Ethylbenzene:	No overview description available for this compound in this guideline.	< 600 mg/kg
Fluoride:	No overview description available for this compound in this guideline.	< 3,000 mg/kg
Hexavalent Chromium:	No overview description available for this compound in this guideline.	< 100 mg/kg
Lead:	No overview description available for this compound in this guideline.	< 20 mg/kg
Manganese:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Mercury:	No overview description available for this compound in this guideline.	< 2 mg/kg
Molybdenum:	No overview description available for this compound in this guideline.	< 100 mg/kg
Nickel:	No overview description available for this compound in this guideline.	< 40 mg/kg
Selenium:	No overview description available for this compound in this guideline.	< 20 mg/kg
Silver:	No overview description available for this compound in this guideline.	< 200 mg/kg
Sum of polycyclic aromatic hydrocarbons:	No overview description available for this compound in this guideline.	< 1,000 mg/kg
Toluene:	No overview description available for this compound in this guideline.	< 1,600 mg/kg
Total Xylenes:	No overview description available for this compound in this guideline.	< 1,200 mg/kg
Vanadium:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Zinc:	No overview description available for this compound in this guideline.	< 100,000 mg/kg
Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate		
Aluminium:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Arsenic:	No overview description available for this compound in this guideline.	< 1,400 mg/kg
Barium:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Benzene:	No overview description available for this compound in this guideline.	< 20 mg/kg
Benzo(a)pyrene:	No overview description available for this compound in this guideline.	< 200 mg/kg
Beryllium:	No overview description available for this compound in this guideline.	< 200 mg/kg
Boron:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
C6 - C9 Fraction:	No overview description available for this compound in this guideline.	< 112,000 mg/kg
Cadmium:	No overview description available for this compound in this guideline.	< 40 mg/kg
Cobalt:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Copper:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Ethylbenzene:	No overview description available for this compound in this guideline.	< 6,000 mg/kg
Fluoride:	No overview description available for this compound in this guideline.	< 30,000 mg/kg
Hexavalent Chromium:	No overview description available for this compound in this guideline.	< 1,000 mg/kg

Guideline values - WA DWER Landfill Waste Classification and Waste Definitions 1996 (As amended December 2019)

		Limits
Class IV - Table 3 Contaminant threshold (CT4) values for waste not requiring leachate		
Lead:	No overview description available for this compound in this guideline.	< 200 mg/kg
Manganese:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Mercury:	No overview description available for this compound in this guideline.	< 20 mg/kg
Molybdenum:	No overview description available for this compound in this guideline.	< 1,000 mg/kg
Nickel:	No overview description available for this compound in this guideline.	< 400 mg/kg
Selenium:	No overview description available for this compound in this guideline.	< 200 mg/kg
Silver:	No overview description available for this compound in this guideline.	< 2,000 mg/kg
Sum of polycyclic aromatic hydrocarbons:	No overview description available for this compound in this guideline.	< 4,000 mg/kg
Toluene:	No overview description available for this compound in this guideline.	< 16,000 mg/kg
Total Xylenes:	No overview description available for this compound in this guideline.	< 12,000 mg/kg
Vanadium:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
Zinc:	No overview description available for this compound in this guideline.	< 200,000 mg/kg
WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)		
Aluminium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Arsenic:	No overview description available for this compound in this guideline.	< 500 mg/kg
Barium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Benzene:	No overview description available for this compound in this guideline.	< 18 mg/kg
Benzo(a)pyrene:	No overview description available for this compound in this guideline.	< 5 mg/kg
Beryllium:	No overview description available for this compound in this guideline.	< 100 mg/kg
Boron:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
C6 - C9 Fraction:	No overview description available for this compound in this guideline.	< 2,800 mg/kg
Cadmium:	No overview description available for this compound in this guideline.	< 100 mg/kg
Cobalt:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Copper:	No overview description available for this compound in this guideline.	< 50,000 mg/kg

Guideline values - WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)

		Limits
WA DWER Landfill Waste Classification and Waste Definitions 1996 (as amended December 2019)		
Ethylbenzene:	No overview description available for this compound in this guideline.	< 1,080 mg/kg
Fluoride:	No overview description available for this compound in this guideline.	< 10,000 mg/kg
Hexavalent Chromium:	No overview description available for this compound in this guideline.	< 500 mg/kg
Lead:	No overview description available for this compound in this guideline.	< 1,500 mg/kg
Manganese:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Mercury:	No overview description available for this compound in this guideline.	< 75 mg/kg
Molybdenum:	No overview description available for this compound in this guideline.	< 1,000 mg/kg
Nickel:	No overview description available for this compound in this guideline.	< 3,000 mg/kg
Selenium:	No overview description available for this compound in this guideline.	< 50 mg/kg
Silver:	No overview description available for this compound in this guideline.	< 180 mg/kg
Sum of polycyclic aromatic hydrocarbons:	No overview description available for this compound in this guideline.	< 100 mg/kg
Toluene:	No overview description available for this compound in this guideline.	< 518 mg/kg
Total Xylenes:	No overview description available for this compound in this guideline.	< 1,800 mg/kg
Vanadium:	No overview description available for this compound in this guideline.	< 50,000 mg/kg
Zinc:	No overview description available for this compound in this guideline.	< 50,000 mg/kg

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	57	119
2-Chlorophenol-D4	93951-73-6	52	130
2.4.6-Tribromophenol	118-79-6	40	132
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	53	139
Anthracene-d10	1719-06-8	68	124
4-Terphenyl-d14	1718-51-0	66	132
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	63	132
Toluene-D8	2037-26-5	66	125
4-Bromofluorobenzene	460-00-4	60	124

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10	67
2-Chlorophenol-D4	93951-73-6	29	120
2.4.6-Tribromophenol	118-79-6	10	131
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	131
Anthracene-d10	1719-06-8	43	126
4-Terphenyl-d14	1718-51-0	41	142
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	61	141
Toluene-D8	2037-26-5	73	126
4-Bromofluorobenzene	460-00-4	60	125

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EP2503279**	Page	: 1 of 19
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: Charlie Rolfe	Telephone	: +61-8-9406 1301
Project	: 12662246	Date Samples Received	: 05-Mar-2025
Site	: ----	Issue Date	: 14-Mar-2025
Sampler	: RM	No. of samples received	: 19
Order number	: 12662246	No. of samples analysed	: 19

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EG035T: Total Recoverable Mercury by FIMS	EP2503148--002	Anonymous	**Mercury**	7439-97-6	58.7 %	70.0-130%	**Recovery less than lower data quality objective**

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method / Container / Client Sample ID(s)		Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EA002: pH 1:5 (Soils)							
Soil Glass Jar - Unpreserved							
7A,	7B,	07-Mar-2025	03-Mar-2025	**4**	----	----	----
7C,	6A,						
6B,	6C,						
5A,	5B,						
5C,	4A,						
4B,	4C,						
3A,	3B,						
3C,	1A,						
QC01,	QC03						
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved							
7A,	7B,	----	----	----	11-Mar-2025	10-Mar-2025	**1**
7C,	6A,						
6B,	6C,						
5A,	5B,						
5C,	4A,						
4B,	4C,						
3A,	3B,						
3C,	1A,						
QC01,	QC03						
EK057G: Nitrite as N by Discrete Analyser							

Matrix: **SOIL**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EK057G: Nitrite as N by Discrete Analyser - Analysis Holding Time Compliance						
Soil Glass Jar - Unpreserved						
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	07-Mar-2025	03-Mar-2025	**4**	----	----	----

Matrix: **WATER**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EG050T: Total Hexavalent Chromium						
Black Opaque Plastic Bottle - NaOH						
RB01	----	----	----	06-Mar-2025	25-Feb-2025	**9**
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
RB01	----	----	----	07-Mar-2025	26-Feb-2025	**9**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons						
Amber Glass Bottle - Unpreserved						
RB01	10-Mar-2025	03-Mar-2025	**7**	----	----	----
EP080/071: Total Petroleum Hydrocarbons						
Amber Glass Bottle - Unpreserved						
RB01	10-Mar-2025	03-Mar-2025	**7**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Amber Glass Bottle - Unpreserved						
RB01	10-Mar-2025	03-Mar-2025	**7**	----	----	----

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type / Analytical Methods	Method	Count		Rate (%)		Quality Control Specification
		QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	13	7.69	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	15	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
TRH - Semivolatile Fraction	EP071	0	15	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: ✗ = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA002: pH 1:5 (Soils)							
Soil Glass Jar - Unpreserved (EA002)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**07-Mar-2025**	03-Mar-2025	✗	**07-Mar-2025**	07-Mar-2025	✓
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**----**	----	----	**11-Mar-2025**	10-Mar-2025	✗
ED040S: Soluble Major Anions							
Soil Glass Jar - Unpreserved (ED040S)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**07-Mar-2025**	24-Mar-2025	✓	**12-Mar-2025**	04-Apr-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED045G: Chloride by Discrete Analyser								
Soil Glass Jar - Unpreserved (ED045G)								
7A,	7B,	**24-Feb-2025**	**07-Mar-2025**	24-Mar-2025	✓	**07-Mar-2025**	04-Apr-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
7A,	7B,	**24-Feb-2025**	**10-Mar-2025**	23-Aug-2025	✓	**14-Mar-2025**	23-Aug-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EG020T: Total Metals by ICP-MS								
Soil Glass Jar - Unpreserved (EG020X-T)								
7A,	7B,	**24-Feb-2025**	**10-Mar-2025**	23-Aug-2025	✓	**11-Mar-2025**	23-Aug-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
7A,	7B,	**24-Feb-2025**	**10-Mar-2025**	24-Mar-2025	✓	**11-Mar-2025**	24-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G)								
7A,	7B,	**24-Feb-2025**	**12-Mar-2025**	24-Mar-2025	✓	**12-Mar-2025**	19-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EK040T-P: Total Fluoride by Auto Analyser								
Soil Glass Jar - Unpreserved (EK040T-P)								
7A,	7B,	**24-Feb-2025**	**11-Mar-2025**	24-Mar-2025	✓	**13-Mar-2025**	24-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK055: Ammonia as N								
Soil Glass Jar - Unpreserved (EK055)								
7A,	7B,	**24-Feb-2025**	**----**	----	**----**	**12-Mar-2025**	24-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EK057G: Nitrite as N by Discrete Analyser								
Soil Glass Jar - Unpreserved (EK057G)								
7A,	7B,	**24-Feb-2025**	**07-Mar-2025**	03-Mar-2025	×	**07-Mar-2025**	09-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Soil Glass Jar - Unpreserved (EK059G)								
7A,	7B,	**24-Feb-2025**	**07-Mar-2025**	24-Mar-2025	✓	**07-Mar-2025**	09-Mar-2025	✓
7C,	6A,							
6B,	6C,							
5A,	5B,							
5C,	4A,							
4B,	4C,							
3A,	3B,							
3C,	1A,							
QC01,	QC03							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Soil Glass Jar - Unpreserved (EK061G)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**10-Mar-2025**	24-Mar-2025	✓	**13-Mar-2025**	07-Apr-2025	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Soil Glass Jar - Unpreserved (EK067G)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**10-Mar-2025**	24-Mar-2025	✓	**13-Mar-2025**	07-Apr-2025	✓
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-G)							
6C, 5A, 4A, 4C, 3A	**24-Feb-2025**	**06-Mar-2025**	23-Aug-2025	✓	**----**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**10-Mar-2025**	10-Mar-2025	✓	**11-Mar-2025**	19-Apr-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**07-Mar-2025**	10-Mar-2025	✓	**10-Mar-2025**	10-Mar-2025	✓
Soil Glass Jar - Unpreserved (EP071)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**10-Mar-2025**	10-Mar-2025	✓	**12-Mar-2025**	19-Apr-2025	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**07-Mar-2025**	10-Mar-2025	✓	**10-Mar-2025**	10-Mar-2025	✓
Soil Glass Jar - Unpreserved (EP071)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**10-Mar-2025**	10-Mar-2025	✓	**12-Mar-2025**	19-Apr-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	**24-Feb-2025**	**07-Mar-2025**	10-Mar-2025	✓	**10-Mar-2025**	10-Mar-2025	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
ED041G: Sulfate (Turbidimetric) as S by DA							
Clear Plastic Bottle - Natural (ED041G)							
RB01	**24-Feb-2025**	**----**	----	----	**07-Mar-2025**	24-Mar-2025	✓
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA							
Clear Plastic Bottle - Natural (ED041G)							
RB01	**24-Feb-2025**	**----**	----	----	**07-Mar-2025**	24-Mar-2025	✓
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural (ED045G)							
RB01	**24-Feb-2025**	**----**	----	----	**07-Mar-2025**	24-Mar-2025	✓
EG005(ED093)C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C)							
6C, 5A, 4A, 4C, 3A	**06-Mar-2025**	**13-Mar-2025**	02-Sep-2025	✓	**14-Mar-2025**	02-Sep-2025	✓
EG020T: Total Metals by ICP-MS							
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG020B-T)							
RB01	**24-Feb-2025**	**11-Mar-2025**	23-Aug-2025	✓	**11-Mar-2025**	23-Aug-2025	✓
EG035T: Total Recoverable Mercury by FIMS							
Clear HDPE (U-T ORC) - Unfiltered; Lab-acidified (EG035T)							
RB01	**24-Feb-2025**	**----**	----	----	**11-Mar-2025**	24-Mar-2025	✓
EG050T: Total Hexavalent Chromium							
Black Opaque Plastic Bottle - NaOH (EG050G-T)							
RB01	**24-Feb-2025**	**----**	----	----	**06-Mar-2025**	25-Feb-2025	×
EK040P: Fluoride by PC Titrator							
Clear Plastic Bottle - Natural (EK040P)							
RB01	**24-Feb-2025**	**----**	----	----	**13-Mar-2025**	24-Mar-2025	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK055G: Ammonia as N by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK055G)							
RB01	24-Feb-2025	----	----	----	10-Mar-2025	24-Mar-2025	✓
EK057G: Nitrite as N by Discrete Analyser							
Clear Plastic Bottle - Natural (EK057G)							
RB01	24-Feb-2025	----	----	----	07-Mar-2025	26-Feb-2025	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)							
RB01	24-Feb-2025	----	----	----	06-Mar-2025	24-Mar-2025	✓
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK061G)							
RB01	24-Feb-2025	13-Mar-2025	24-Mar-2025	✓	13-Mar-2025	24-Mar-2025	✓
EK067G: Total Phosphorus as P by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK067G)							
RB01	24-Feb-2025	13-Mar-2025	24-Mar-2025	✓	13-Mar-2025	24-Mar-2025	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP075(SIM))							
RB01	24-Feb-2025	10-Mar-2025	03-Mar-2025	×	11-Mar-2025	19-Apr-2025	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071)							
RB01	24-Feb-2025	10-Mar-2025	03-Mar-2025	×	11-Mar-2025	19-Apr-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
RB01	24-Feb-2025	07-Mar-2025	10-Mar-2025	✓	08-Mar-2025	10-Mar-2025	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071)							
RB01	24-Feb-2025	10-Mar-2025	03-Mar-2025	×	11-Mar-2025	19-Apr-2025	✓
Amber VOC Vial - Sulfuric Acid (EP080)							
RB01	24-Feb-2025	07-Mar-2025	10-Mar-2025	✓	08-Mar-2025	10-Mar-2025	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
RB01	24-Feb-2025	07-Mar-2025	10-Mar-2025	✓	08-Mar-2025	10-Mar-2025	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Buchi Ammonia	EK055	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride Soluble By Discrete Analyser	ED045G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Anions - Soluble	ED040S	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx)- Soluble by Discrete Analyser	EK059G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N - Soluble by Discrete Analyser	EK057G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TKN as N By Discrete Analyser	EK061G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride by Auto Analyser	EK040T-P	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite X	EG020X-T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite Y	EG020Y-T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus By Discrete Analyser	EK067G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Buchi Ammonia	EK055	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride Soluble By Discrete Analyser	ED045G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Anions - Soluble	ED040S	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx)- Soluble by Discrete Analyser	EK059G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N - Soluble by Discrete Analyser	EK057G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH (1:5)	EA002	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TKN as N By Discrete Analyser	EK061G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride by Auto Analyser	EK040T-P	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite X	EG020X-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite Y	EG020Y-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus By Discrete Analyser	EK067G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Control Samples (LCS) - Continued							
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
ASLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN60a-G	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Buchi Ammonia	EK055	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride Soluble By Discrete Analyser	ED045G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Major Anions - Soluble	ED040S	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx)- Soluble by Discrete Analyser	EK059G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N - Soluble by Discrete Analyser	EK057G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TKN as N By Discrete Analyser	EK061G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride by Auto Analyser	EK040T-P	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite X	EG020X-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite Y	EG020Y-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus By Discrete Analyser	EK067G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Buchi Ammonia	EK055	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride Soluble By Discrete Analyser	ED045G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx)- Soluble by Discrete Analyser	EK059G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N - Soluble by Discrete Analyser	EK057G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TKN as N By Discrete Analyser	EK061G	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride by Auto Analyser	EK040T-P	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite X	EG020X-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite Y	EG020Y-T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus By Discrete Analyser	EK067G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Fluoride by Auto Titrator	EK040P	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Discrete Analyser - Total	EG050G-T	1	1	**100.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	13	**7.69**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	1	2	**50.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	16	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	15	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	15	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Ammonia as N by Discrete analyser	EK055G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	8	**25.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Fluoride by Auto Titrator	EK040P	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Discrete Analyser - Total	EG050G-T	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Fluoride by Auto Titrator	EK040P	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Discrete Analyser - Total	EG050G-T	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Method Blanks (MB) - Continued							
Nitrite as N by Discrete Analyser	EK057G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite B	EG020B-T	1	2	**50.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Fluoride by Auto Titrator	EK040P	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Discrete Analyser - Total	EG050G-T	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Leachable Metals by ICPAES	EG005C	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-MS - Suite A	EG020A-T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	16	**6.25**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	15	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	15	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
pH (1:5)	EA002	SOIL	In house: Referenced to Rayment and Lyons 4A1 and APHA 4500H+. pH is determined on soil samples after a 1:5 soil/water leach. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Major Anions - Soluble	ED040S	SOIL	In house: Soluble Anions are determined off a 1:5 soil / water extract by ICPAES.
Chloride Soluble By Discrete Analyser	ED045G	SOIL	In house: Referenced to APHA 4500 Cl - G. The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm. Analysis is performed on a 1:5 soil / water leachate.
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Metals by ICP-MS - Suite X	EG020X-T	SOIL	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Metals by ICP-MS - Suite Y	EG020Y-T	SOIL	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Fluoride by Auto Analyser	EK040T-P	SOIL	In-house: Total fluoride is determined by an auto analyer ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
Buchi Ammonia	EK055	SOIL	In house: Referenced to APHA 4500-NH3 B&G, H Samples are steam distilled (Buchi) prior to analysis and quantified using titration, FIA or Discrete Analyser.

Analytical Methods	Method	Matrix	Method Descriptions
Nitrite as N - Soluble by Discrete Analyser	EK057G	SOIL	In house: Referenced to APHA 4500-NO3- B. Nitrite in a water extract is determined by direct colourimetry by Discrete Analyser.
Nitrate as N - Soluble by Discrete Analyser	EK058G	SOIL	In house: Referenced to APHA 4500-NO3- F. Nitrate in the 1:5 soil:water extract is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results.
Nitrite and Nitrate as N (NOx)- Soluble by Discrete Analyser	EK059G	SOIL	In house: Thermo Scientific Method D08727 and NEMI (National Environmental Method Index) Method ID: 9171. This method covers the determination of total oxidised nitrogen (NOx-N) and nitrate (NO3-N) by calculation, Combined oxidised Nitrogen (NO2+NO3) in a water extract is determined by direct colourimetry by Discrete Analyser.
TKN as N By Discrete Analyser	EK061G	SOIL	In house: Referenced to APHA 4500-Norg-D Soil samples are digested using Kjeldahl digestion followed by determination by Discrete Analyser.
Total Nitrogen as N (TKN + NOx) By Discrete Analyser	EK062G	SOIL	In house: Referenced to APHA 4500 Norg/NO3- Total Nitrogen is determined as the sum of TKN and Oxidised Nitrogen, each determined separately as N.
Total Phosphorus By Discrete Analyser	EK067G	SOIL	In house: Referenced to APHA 4500 P-B&F This procedure involves sulfuric acid digestion and quantification using Discrete Analyser.
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Sulfate (Turbidimetric) as SO4 2- by Discrete Analyser	ED041G	WATER	In house: Referenced to APHA 4500-SO4. Dissolved sulfate is determined in a 0.45um filtered sample. Sulfate ions are converted to a barium sulfate suspension in an acetic acid medium with barium chloride. Light absorbance of the BaSO4 suspension is measured by a photometer and the SO4-2 concentration is determined by comparison of the reading with a standard curve. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 Cl - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride. In the presence of ferric ions the liberated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Metals by ICP-MS - Suite B	EG020B-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.

Analytical Methods	Method	Matrix	Method Descriptions
Total Mercury by FIMS	EG035T	WATER	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3).
Hexavalent Chromium by Discrete Analyser - Total	EG050G-T	WATER	In house: Referenced to APHA 3500 Cr-A & B. Hexavalent chromium is determined directly on water sample by Descrete Analyser as received by pH adjustment and colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3).
Fluoride by Auto Titrator	EK040P	WATER	In house: Referenced to APHA 4500-F C: CDTA is added to the sample to provide a uniform ionic strength background, adjust pH, and break up complexes. Fluoride concentration is determined by either manual or automatic ISE measurement. This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3-. This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015 The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	In house: Referenced to USEPA SW 846 - 8270 Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260 Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions

Preparation Methods	Method	Matrix	Method Descriptions
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
TKN/TP Digestion	EK061/EK067	SOIL	In house: Referenced to APHA 4500 Norg- D; APHA 4500 P - H. Macro Kjeldahl digestion.
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
1:5 solid / water leach for soluble analytes	EN34	SOIL	10 g of soil is mixed with 50 mL of reagent grade water and tumbled end over end for 1 hour. Water soluble salts are leached from the soil by the continuous suspension. Samples are settled and the water filtered off for analysis.
ASLP for Non & Semivolatile Analytes - Glass Leaching Vessel	EN60a-G	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule B(3)
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for purging.

QUALITY CONTROL REPORT

Work Order	: **EP2503279**	Page	: 1 of 18
Client	: **GHD PTY LTD**	Laboratory	: Environmental Division Perth
Contact	: Charlie Rolfe	Contact	: Angel Tam
Address	: 999 HAY STREET PERTH WA, AUSTRALIA 6000	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 12662246	Date Samples Received	: 05-Mar-2025
Order number	: 12662246	Date Analysis Commenced	: 06-Mar-2025
C-O-C number	: ----	Issue Date	: 14-Mar-2025
Sampler	: RM		
Site	: ----		
Quote number	: EP25GHDSER0009		
No. of samples received	: 19		
No. of samples analysed	: 19		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Chris Lemaitre	Laboratory Manager (Perth)	Perth Inorganics, Wangara, WA
Daniel Fisher	Inorganics Analyst	Perth Inorganics, Wangara, WA
David Viner	SENIOR LAB TECH	Perth Organics, Wangara, WA
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6426032)									
EP2503279-001	7A	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	<10	<10	0.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Manganese	7439-96-5	5	mg/kg	42	40	6.4	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	5	5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Aluminium	7429-90-5	50	mg/kg	1040	1020	2.3	0% - 20%
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
EP2503279-011	4B	EG005T: Beryllium	7440-41-7	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Barium	7440-39-3	10	mg/kg	<10	<10	0.0	No Limit
		EG005T: Cobalt	7440-48-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 6426032) - continued									
EP2503279-011	4B	EG005T: Manganese	7439-96-5	5	mg/kg	17	17	0.0	No Limit
		EG005T: Vanadium	7440-62-2	5	mg/kg	55	43	23.9	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Aluminium	7429-90-5	50	mg/kg	5430	5240	3.6	0% - 20%
		EG005T: Boron	7440-42-8	50	mg/kg	<50	<50	0.0	No Limit
EK040T-P: Total Fluoride by Auto Analyser (QC Lot: 6428132)									
EP2503279-001	7A	EK040T-P: Fluoride	16984-48-8	40	mg/kg	120	100	19.0	No Limit
EP2503279-011	4B	EK040T-P: Fluoride	16984-48-8	40	mg/kg	70	110	40.0	No Limit
EA002: pH 1:5 (Soils) (QC Lot: 6422942)									
EP2503279-009	5C	EA002: pH Value	----	0.1	pH Unit	5.2	4.7	9.1	0% - 20%
EP2503196-002	Anonymous	EA002: pH Value	----	0.1	pH Unit	9.2	9.2	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6428805)									
EP2503279-001	7A	EA055: Moisture Content	----	0.1 (1.0)*	%	7.8	7.9	0.0	No Limit
EP2503279-011	4B	EA055: Moisture Content	----	0.1 (1.0)*	%	11.0	10.9	1.4	0% - 50%
ED040S: Soluble Major Anions (QC Lot: 6422945)									
EP2503279-001	7A	ED040S: Sulfate as SO4 2-	14808-79-8	10	mg/kg	30	30	0.0	No Limit
EP2503279-011	4B	ED040S: Sulfate as SO4 2-	14808-79-8	10	mg/kg	<10	<10	0.0	No Limit
ED045G: Chloride by Discrete Analyser (QC Lot: 6422948)									
EP2503279-001	7A	ED045G: Chloride	16887-00-6	10	mg/kg	410	410	0.0	0% - 20%
EP2503279-011	4B	ED045G: Chloride	16887-00-6	10	mg/kg	<10	<10	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 6426030)									
EP2503279-001	7A	EG020Y-T: Cadmium	7440-43-9	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
		EG020Y-T: Selenium	7782-49-2	1	mg/kg	<1	<1	0.0	No Limit
EP2503279-011	4B	EG020Y-T: Cadmium	7440-43-9	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
		EG020Y-T: Selenium	7782-49-2	1	mg/kg	<1	<1	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 6426031)									
EP2503279-001	7A	EG020X-T: Lead	7439-92-1	0.1	mg/kg	1.1	1.0	0.0	0% - 50%
EP2503279-011	4B	EG020X-T: Lead	7439-92-1	0.1	mg/kg	6.6	5.4	20.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6426029)									
EP2503279-001	7A	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP2503279-011	4B	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 6426273)									
EP2503279-001	7A	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2503279-011	4B	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EK055: Ammonia as N (QC Lot: 6426373)									
EP2503279-001	7A	EK055: Ammonia as N	7664-41-7	20	mg/kg	<20	<20	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EK055: Ammonia as N (QC Lot: 6426373) - continued									
EP2503279-010	4A	EK055: Ammonia as N	7664-41-7	20	mg/kg	<20	<20	0.0	No Limit
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 6422947)									
EP2503279-001	7A	EK057G: Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP2503279-011	4B	EK057G: Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 6422946)									
EP2503279-001	7A	EK059G: Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg	1.4	1.6	0.0	0% - 50%
EP2503279-011	4B	EK059G: Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg	0.2	0.2	0.0	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 6426985)									
EP2503279-001	7A	EK061G: Total Kjeldahl Nitrogen as N	----	20	mg/kg	<20	<20	0.0	No Limit
EP2503279-011	4B	EK061G: Total Kjeldahl Nitrogen as N	----	20	mg/kg	100	100	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 6426986)									
EP2503279-001	7A	EK067G: Total Phosphorus as P	----	2	mg/kg	105	112	6.3	0% - 20%
EP2503279-011	4B	EK067G: Total Phosphorus as P	----	2	mg/kg	88	94	5.7	0% - 20%
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6426469)									
EP2503279-001	7A	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP2503279-011	4B	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6426469) - continued									
EP2503279-011	4B	EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6423078)									
EP2503279-001	7A	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP2503279-011	4B	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6426470)									
EP2503279-001	7A	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2503279-011	4B	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6423078)									
EP2503279-001	7A	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP2503279-011	4B	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6426470)									
EP2503279-001	7A	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP2503279-011	4B	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 6423078)									
EP2503279-001	7A	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080: BTEXN (QC Lot: 6423078) - continued									
EP2503279-001	7A	EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP2503279-011	4B	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)C: Leachable Metals by ICPAES (QC Lot: 6429771)									
EP2503279-006	6C	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.0	No Limit
		EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	0.0	No Limit
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QC Lot: 6422363)									
EP2503328-002	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	67	65	4.0	0% - 20%
EP2503328-003	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	69	69	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 6422365)									
EP2503328-003	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	197	198	0.9	0% - 20%
EG020T: Total Metals by ICP-MS (QC Lot: 6428745)									
EP2503000-001	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
		EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Barium	7440-39-3	0.001	mg/L	0.008	0.009	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	0.245	0.248	1.2	0% - 20%
		EG020A-T: Lead	7439-92-1	0.001	mg/L	0.006	0.007	0.0	No Limit
		EG020A-T: Manganese	7439-96-5	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	0.114	0.119	4.7	0% - 20%
		EG020A-T: Aluminium	7429-90-5	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Boron	7440-42-8	0.05	mg/L	0.27	0.28	5.2	No Limit
EP2503193-035	Anonymous	EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG020T: Total Metals by ICP-MS (QC Lot: 6428745) - continued									
EP2503193-035	Anonymous	EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Barium	7440-39-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Manganese	7439-96-5	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.0	No Limit
		EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.0	No Limit
		EG020A-T: Aluminium	7429-90-5	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Selenium	7782-49-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
		EG020A-T: Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	0.0	No Limit
EG020T: Total Metals by ICP-MS (QC Lot: 6428746)									
EP2503193-035	Anonymous	EG020B-T: Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 6428772)									
EP2503148-001	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EP2503193-036	Anonymous	EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	0.0	No Limit
EG050T: Total Hexavalent Chromium (QC Lot: 6422414)									
EP2503279-019	RB01	EG050G-T: Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK040P: Fluoride by PC Titrator (QC Lot: 6432110)									
EP2503237-003	Anonymous	EK040P: Fluoride	16984-48-8	0.1	mg/L	0.5	0.5	0.0	No Limit
EP2503237-013	Anonymous	EK040P: Fluoride	16984-48-8	0.1	mg/L	0.6	0.6	0.0	No Limit
EK055G: Ammonia as N by Discrete Analyser (QC Lot: 6422409)									
EP2503272-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.02	0.0	No Limit
EP2503316-004	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.01	0.01	0.0	No Limit
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 6422364)									
EP2503328-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP2503328-003	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 6422410)									
EP2503272-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.02	0.0	No Limit
EP2503316-004	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 6429811)									
EP2502829-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1 (0.5)*	mg/L	55.9	49.5	12.2	0% - 20%

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 6429811) - continued									
EP2503340-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1 (0.2)*	mg/L	1.2	1.1	9.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 6429810)									
EP2502829-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01 (0.05)*	mg/L	0.20	0.06	99.8	No Limit
EP2503340-002	Anonymous	EK067G: Total Phosphorus as P	----	0.01 (0.02)*	mg/L	0.05	0.04	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 6426374)									
EP2503181-003	Anonymous	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	<1.0	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	<1.0	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 6423257)									
EP2503247-001	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP2503279-019	RB01	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 6423257)									
EP2503247-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP2503279-019	RB01	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.0	No Limit
EP080: BTEXN (QC Lot: 6423257)									
EP2503247-001	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 6423257) - continued									
EP2503247-001	Anonymous	EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit
EP2503279-019	RB01	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.0	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.0	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6426032)								
EG005T: Aluminium	7429-90-5	50	mg/kg	<50	13480 mg/kg	98.6	70.0	130
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	77.39 mg/kg	98.9	70.0	130
EG005T: Barium	7440-39-3	10	mg/kg	<10	85.98 mg/kg	103	70.0	130
EG005T: Beryllium	7440-41-7	1	mg/kg	<1	----	----	----	----
EG005T: Boron	7440-42-8	50	mg/kg	<50	----	----	----	----
EG005T: Cobalt	7440-48-4	2	mg/kg	<2	10.47 mg/kg	92.6	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	46.13 mg/kg	96.2	70.0	130
EG005T: Manganese	7439-96-5	5	mg/kg	<5	531.08 mg/kg	108	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	1.29 mg/kg	89.1	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	14.48 mg/kg	91.8	70.0	130
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.82 mg/kg	83.3	70.0	130
EG005T: Vanadium	7440-62-2	5	mg/kg	<5	55.58 mg/kg	96.4	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	190.4 mg/kg	90.9	70.0	130
EK040T-P: Total Fluoride by Auto Analyser (QCLot: 6428132)								
EK040T-P: Fluoride	16984-48-8	40	mg/kg	<40	334 mg/kg	102	93.1	107
EN60: ASLP Leaching Procedure - Inorganics/Non-Volatile Organics (Glass Vessel) (QCLot: 6421300)								
EN60a-G: Extraction Fluid pH	----	0.1	pH Unit	5.0	----	----	----	----
EN60a-G: Final pH	----	0.1	pH Unit	5.1	----	----	----	----
EA002: pH 1:5 (Soils) (QCLot: 6422942)								
EA002: pH Value	----	----	pH Unit	---- ----	4 pH Unit 7 pH Unit	101 100	98.6 98.6	102 102
ED040S: Soluble Major Anions (QCLot: 6422945)								
ED040S: Sulfate as SO4 2-	14808-79-8	10	mg/kg	<10	750 mg/kg	110	91.7	116
ED045G: Chloride by Discrete Analyser (QCLot: 6422948)								
ED045G: Chloride	16887-00-6	10	mg/kg	<10 <10	50 mg/kg 5000 mg/kg	93.3 92.7	88.0 88.0	112 112
EG020T: Total Metals by ICP-MS (QCLot: 6426030)								
EG020Y-T: Selenium	7782-49-2	1	mg/kg	<1	----	----	----	----
EG020Y-T: Cadmium	7440-43-9	0.1	mg/kg	<0.1	1.59 mg/kg	99.1	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 6426031)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG020T: Total Metals by ICP-MS (QCLot: 6426031) - continued								
EG020X-T: Lead	7439-92-1	0.1	mg/kg	<0.1	58.42 mg/kg	107	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6426029)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.115 mg/kg	70.0	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 6426273)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	40 mg/kg	81.6	70.0	120
				<0.5	20 mg/kg	103	70.0	120
EK055: Ammonia as N (QCLot: 6426373)								
EK055: Ammonia as N	7664-41-7	20	mg/kg	<20	50 mg/kg	97.6	76.1	110
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6422947)								
EK057G: Nitrite as N (Sol.)	14797-65-0	0.1	mg/kg	<0.1	2.5 mg/kg	101	90.6	108
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6422946)								
EK059G: Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg	<0.1	2.5 mg/kg	98.9	88.5	110
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 6426985)								
EK061G: Total Kjeldahl Nitrogen as N	----	20	mg/kg	<20	1000 mg/kg	82.9	70.0	110
				<20	100 mg/kg	98.8	70.0	128
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 6426986)								
EK067G: Total Phosphorus as P	----	2	mg/kg	<2	440 mg/kg	87.8	70.0	110
				<2	44 mg/kg	89.7	73.9	120
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6426469)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	105	71.0	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	93.4	69.0	129
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	94.5	65.0	125
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	112	71.0	125
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	107	66.0	124
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	108	60.0	112
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	121	67.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	126	65.0	127
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	90.8	57.0	125
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	101	57.0	131
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	94.2	65.0	125
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	117	69.0	127
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	97.3	63.0	121
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	102	61.0	121

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6426469) - continued								
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	96.4	52.0	128
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	114	65.0	125
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6423078)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	35 mg/kg	83.8	66.0	122
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6426470)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	1666 mg/kg	103	70.0	111
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	2937 mg/kg	99.5	71.9	109
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	477 mg/kg	91.2	63.8	118
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6423078)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	78.8	66.0	122
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6426470)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	2315 mg/kg	100	72.8	110
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	2594 mg/kg	99.5	67.8	114
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	157 mg/kg	92.0	50.3	123
EP080: BTEXN (QCLot: 6423078)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	81.4	72.0	122
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	83.7	75.0	119
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	84.9	73.0	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	85.0	74.0	122
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	90.5	75.0	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	108	64.0	126

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 6429771)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	1 mg/L	104	89.5	110
EG005C: Nickel	7440-02-0	0.1	mg/L	<0.1	1 mg/L	104	88.1	108
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 6422363)								
ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	25 mg/L	104	89.9	112
				<1	500 mg/L	104	89.9	112
ED045G: Chloride by Discrete Analyser (QCLot: 6422365)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.6	88.6	113
				<1	1000 mg/L	102	88.6	113

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EG020T: Total Metals by ICP-MS (QCLot: 6428745)								
EG020A-T: Aluminium	7429-90-5	0.01	mg/L	<0.01	0.5 mg/L	109	91.6	114
EG020A-T: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	107	92.6	113
EG020A-T: Beryllium	7440-41-7	0.001	mg/L	<0.001	0.1 mg/L	116	82.2	127
EG020A-T: Barium	7440-39-3	0.001	mg/L	<0.001	0.1 mg/L	108	91.0	112
EG020A-T: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	106	91.8	111
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	109	90.9	109
EG020A-T: Cobalt	7440-48-4	0.001	mg/L	<0.001	0.1 mg/L	108	90.5	110
EG020A-T: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	110	90.8	110
EG020A-T: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	107	92.3	108
EG020A-T: Manganese	7439-96-5	0.001	mg/L	<0.001	0.1 mg/L	104	90.3	109
EG020A-T: Molybdenum	7439-98-7	0.001	mg/L	<0.001	0.1 mg/L	115	98.8	121
EG020A-T: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	110	89.3	110
EG020A-T: Selenium	7782-49-2	0.01	mg/L	<0.01	0.1 mg/L	106	85.7	110
EG020A-T: Vanadium	7440-62-2	0.01	mg/L	<0.01	0.1 mg/L	108	92.0	111
EG020A-T: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	106	90.7	113
EG020A-T: Boron	7440-42-8	0.05	mg/L	<0.05	0.5 mg/L	113	79.6	130
EG020T: Total Metals by ICP-MS (QCLot: 6428746)								
EG020B-T: Silver	7440-22-4	0.001	mg/L	<0.001	0.02 mg/L	107	92.5	124
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6428772)								
EG035T: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.005 mg/L	93.0	83.7	120
EG050T: Total Hexavalent Chromium (QCLot: 6422414)								
EG050G-T: Hexavalent Chromium	18540-29-9	0.01	mg/L	<0.01	0.5 mg/L	105	93.2	108
EK040P: Fluoride by PC Titrator (QCLot: 6432110)								
EK040P: Fluoride	16984-48-8	0.1	mg/L	<0.1	5 mg/L	108	86.0	116
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6422409)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	98.3	86.2	111
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6422364)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	97.9	88.7	113
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6422410)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	108	90.5	110
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 6429811)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	10 mg/L	92.2	80.0	115
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 6429810)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	4.42 mg/L	89.3	70.0	110

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6426374)								
EP075(SIM): Naphthalene	91-20-3	1	µg/L	<1.0	10 µg/L	92.7	41.9	99.1
EP075(SIM): Acenaphthylene	208-96-8	1	µg/L	<1.0	10 µg/L	96.6	36.1	113
EP075(SIM): Acenaphthene	83-32-9	1	µg/L	<1.0	10 µg/L	89.0	35.8	102
EP075(SIM): Fluorene	86-73-7	1	µg/L	<1.0	10 µg/L	94.9	33.5	113
EP075(SIM): Phenanthrene	85-01-8	1	µg/L	<1.0	10 µg/L	94.4	36.5	115
EP075(SIM): Anthracene	120-12-7	1	µg/L	<1.0	10 µg/L	94.3	46.4	109
EP075(SIM): Fluoranthene	206-44-0	1	µg/L	<1.0	10 µg/L	97.8	40.4	124
EP075(SIM): Pyrene	129-00-0	1	µg/L	<1.0	10 µg/L	96.2	40.2	123
EP075(SIM): Benz(a)anthracene	56-55-3	1	µg/L	<1.0	10 µg/L	101	40.2	126
EP075(SIM): Chrysene	218-01-9	1	µg/L	<1.0	10 µg/L	96.3	45.6	121
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	1	µg/L	<1.0	10 µg/L	106	43.2	123
EP075(SIM): Benzo(k)fluoranthene	207-08-9	1	µg/L	<1.0	10 µg/L	93.5	47.3	121
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	µg/L	<0.5	10 µg/L	101	44.8	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	1	µg/L	<1.0	10 µg/L	102	38.8	120
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	1	µg/L	<1.0	10 µg/L	100	39.4	119
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	1	µg/L	<1.0	10 µg/L	102	40.1	123
EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	µg/L	<0.5	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6423257)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	360 µg/L	92.6	73.6	113
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6426375)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	6382 µg/L	75.4	39.3	103
EP071: C15 - C28 Fraction	----	100	µg/L	<100	10210 µg/L	81.8	47.2	122
EP071: C29 - C36 Fraction	----	50	µg/L	<50	1761 µg/L	84.6	42.5	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6423257)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	450 µg/L	90.4	73.9	115
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6426375)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	8358 µg/L	78.9	47.0	100
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	9121 µg/L	78.6	46.2	116
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	567 µg/L	103	24.7	137
EP080: BTEXN (QCLot: 6423257)								
EP080: Benzene	71-43-2	1	µg/L	<1	20 µg/L	91.0	84.1	114
EP080: Toluene	108-88-3	2	µg/L	<2	20 µg/L	102	81.0	115
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	20 µg/L	99.9	84.4	113

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080: BTEXN (QCLot: 6423257) - continued								
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	40 µg/L	95.1	84.3	114
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	20 µg/L	99.0	86.5	111
EP080: Naphthalene	91-20-3	5	µg/L	<5	5 µg/L	98.1	77.0	118

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 6426032)							
EP2503279-001	7A	EG005T: Arsenic	7440-38-2	50 mg/kg	100	70.0	130
		EG005T: Barium	7440-39-3	50 mg/kg	99.5	70.0	130
		EG005T: Beryllium	7440-41-7	50 mg/kg	106	70.0	130
		EG005T: Cobalt	7440-48-4	50 mg/kg	100	70.0	130
		EG005T: Copper	7440-50-8	50 mg/kg	97.2	70.0	130
		EG005T: Manganese	7439-96-5	50 mg/kg	107	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	100	70.0	130
		EG005T: Vanadium	7440-62-2	50 mg/kg	96.9	70.0	130
		EG005T: Zinc	7440-66-6	50 mg/kg	99.6	70.0	130
EK040T-P: Total Fluoride by Auto Analyser (QCLot: 6428132)							
EP2503279-002	7B	EK040T-P: Fluoride	16984-48-8	400 mg/kg	72.2	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 6422948)							
EP2503279-002	7B	ED045G: Chloride	16887-00-6	1000 mg/kg	107	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 6426030)							
EP2503279-001	7A	EG020Y-T: Cadmium	7440-43-9	12.5 mg/kg	99.5	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 6426031)							
EP2503279-001	7A	EG020X-T: Lead	7439-92-1	50 mg/kg	98.1	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6426029)							
EP2503279-001	7A	EG035T: Mercury	7439-97-6	1 mg/kg	74.9	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 6426273)							
EP2503279-001	7A	EG048G: Hexavalent Chromium	18540-29-9	40 mg/kg	98.9	70.0	130
EP2503279-001	7A	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	111	70.0	130
EK055: Ammonia as N (QCLot: 6426373)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK055: Ammonia as N (QCLot: 6426373) - continued							
EP2503279-002	7B	EK055: Ammonia as N	7664-41-7	50 mg/kg	97.8	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6422947)							
EP2503279-002	7B	EK057G: Nitrite as N (Sol.)	14797-65-0	2.5 mg/kg	100	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6422946)							
EP2503279-002	7B	EK059G: Nitrite + Nitrate as N (Sol.)	----	2.5 mg/kg	114	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 6426985)							
EP2503279-002	7B	EK061G: Total Kjeldahl Nitrogen as N	----	500 mg/kg	101	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 6426986)							
EP2503279-002	7B	EK067G: Total Phosphorus as P	----	100 mg/kg	85.0	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6426469)							
EP2503279-002	7B	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	91.1	73.5	125
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	98.6	70.8	125
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6423078)							
EP2503279-002	7B	EP080: C6 - C9 Fraction	----	24 mg/kg	88.6	69.1	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6426470)							
EP2503279-002	7B	EP071: C10 - C14 Fraction	----	1666 mg/kg	99.8	64.7	126
		EP071: C15 - C28 Fraction	----	2937 mg/kg	96.0	61.7	124
		EP071: C29 - C36 Fraction	----	477 mg/kg	86.9	64.6	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6423078)							
EP2503279-002	7B	EP080: C6 - C10 Fraction	C6_C10	29 mg/kg	87.2	69.1	135
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6426470)							
EP2503279-002	7B	EP071: >C10 - C16 Fraction	----	2315 mg/kg	97.1	64.7	126
		EP071: >C16 - C34 Fraction	----	2594 mg/kg	95.8	61.7	124
		EP071: >C34 - C40 Fraction	----	157 mg/kg	82.1	64.6	131
EP080: BTEXN (QCLot: 6423078)							
EP2503279-002	7B	EP080: Benzene	71-43-2	2 mg/kg	86.4	76.4	118
		EP080: Toluene	108-88-3	2 mg/kg	88.0	67.4	112

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)C: Leachable Metals by ICPAES (QCLot: 6429771)							
EP2503279-007	5A	EG005C: Lead	7439-92-1	1 mg/L	98.9	70.0	130
		EG005C: Nickel	7440-02-0	1 mg/L	96.7	70.0	130
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 6422363)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA (QCLot: 6422363) - continued							
EP2503328-001	Anonymous	ED041G: Sulfate as SO4 - Turbidimetric	14808-79-8	100 mg/L	124	70.4	130
ED045G: Chloride by Discrete Analyser (QCLot: 6422365)							
EP2503328-001	Anonymous	ED045G: Chloride	16887-00-6	200 mg/L	111	70.0	130
EG020T: Total Metals by ICP-MS (QCLot: 6428745)							
EP2503000-002	Anonymous	EG020A-T: Arsenic	7440-38-2	1 mg/L	101	70.0	130
		EG020A-T: Beryllium	7440-41-7	1 mg/L	113	70.0	130
		EG020A-T: Barium	7440-39-3	1 mg/L	104	70.0	130
		EG020A-T: Cadmium	7440-43-9	0.25 mg/L	102	70.0	130
		EG020A-T: Chromium	7440-47-3	1 mg/L	102	70.0	130
		EG020A-T: Cobalt	7440-48-4	1 mg/L	102	70.0	130
		EG020A-T: Copper	7440-50-8	1 mg/L	103	70.0	130
		EG020A-T: Lead	7439-92-1	1 mg/L	101	70.0	130
		EG020A-T: Manganese	7439-96-5	1 mg/L	101	70.0	130
		EG020A-T: Nickel	7440-02-0	1 mg/L	101	70.0	130
		EG020A-T: Vanadium	7440-62-2	1 mg/L	102	70.0	130
		EG020A-T: Zinc	7440-66-6	1 mg/L	100	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 6428772)							
EP2503148-002	Anonymous	EG035T: Mercury	7439-97-6	0.005 mg/L	# 58.7	70.0	130
EG050T: Total Hexavalent Chromium (QCLot: 6422414)							
EP2503279-019	RB01	EG050G-T: Hexavalent Chromium	18540-29-9	0.5 mg/L	110	70.0	130
EK040P: Fluoride by PC Titrator (QCLot: 6432110)							
EP2503237-004	Anonymous	EK040P: Fluoride	16984-48-8	4.9 mg/L	112	70.0	130
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6422409)							
EP2503227-001	Anonymous	EK055G: Ammonia as N	7664-41-7	1 mg/L	111	70.0	130
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6422364)							
EP2503328-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	98.2	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6422410)							
EP2503227-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	112	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 6429811)							
EP2503243-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	25 mg/L	95.3	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 6429810)							
EP2503243-001	Anonymous	EK067G: Total Phosphorus as P	----	5 mg/L	103	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 6426374)							
EP2503181-002	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 µg/L	65.7	44.0	124
		EP075(SIM): Pyrene	129-00-0	10 µg/L	83.3	61.6	121

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080/071: Total Petroleum Hydrocarbons (QCLot: 6423257)							
EP2503247-002	Anonymous	EP080: C6 - C9 Fraction	----	240 µg/L	81.6	77.0	137
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 6423257)							
EP2503247-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	290 µg/L	93.3	77.0	137
EP080: BTEXN (QCLot: 6423257)							
EP2503247-002	Anonymous	EP080: Benzene	71-43-2	20 µg/L	97.9	77.0	122
		EP080: Toluene	108-88-3	20 µg/L	97.4	73.5	126

119218

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

GHD
Level 10, 999 Hay Street
Perth WA 6000

PO Box 3106
Perth WA 6832

Reception Ph: 08 6222 8222

Page 1 of 1

Project ID 12662246	**PO Number** (to be invoiced) 12662246
Laboratory Quote No. WA-25-0213-GHD	**Turnaround Time** Standard
Project Manager (Invoice) & GHD accounts Invoice to : AccountsPayableAU@ghd.com	**Email Address (Results)** GHD.LabReports@ghd.com Charlie.Rolfe@ghd.com Jose.Romero@ghd.com Tristan.Sleigh@ghd.com

Laboratory: Eurofins | ARL
Address: 46-48 Banksia Rd, Welshpool WA 6106
Laboratory Contact:

GHD Sample ID	Lab Sample ID	Date	Time	Sample Matrix S-Soil/ SL-Sludge/ W-Water/ A-Air	Container: Type B-Bottle/J-Jar/V-Vial/Bag/G-Glass/P-Plastic	Container: Preservative Unpreserved/ HCl/ H2SO4/HNO3/Other	Container: No	Analyses: Metals (As, B, Ba, Be, Cd, Cr, Co, Cu, Mn, Mo, Ni, Pb, Se, V, Zn, Hg)	Analyses: B4 TRH, BTEXN, PAH	Analyses: B15D Nutrients #S TN*, TKN, NOX, NO2, NO3, NH3, TP	Analyses: Fluoride (Soluble F) (1:5 Aqueous 12132a code)	Analyses: Chloride (Cl) (1:5 Aqueous Extract)	Analyses: Sulfate (SO4)(as SO4) (1:5 Aqueous Extract)	Analyses: HOLD	Remarks
QC02		24/02/25		Soil	Jar	No	1	x	x	x	x	x	x		
QC04		24/02/25		Soil	Jar	No	1	x	x	x	x	x	x		

f1 to mel

Sampled by: RM	Date/Time: 24/02/2025	Relinquished by: Charlie Rolfe	Date/Time: 27/02/2025
Received by:	Date/Time:	Relinquished by:	Date/Time:

MK
27/2/25
1555
17

www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins ARL Pty Ltd ABN: 91 05 0159 898

Perth	Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
46-48 Banksia Road	6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Welshpool	Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
WA 6106	VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 8 6253 4444	+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 2377	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 2370 & 2554	Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins Environment Testing NZ Ltd NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	GHD Pty Ltd WA
Contact name:	- ALL GHD lab reports
Project name:	Not provided
Project ID:	1266246
Turnaround time:	5 Day
Date/Time received	Feb 27, 2025 3:55 PM
Eurofins reference	1193218

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 17 degrees Celsius.
✓	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:

Natalie Hill on phone : or by email: Natalie.Hill@eurofinsanz.com

Results will be delivered electronically via email to - ALL GHD lab reports - ghdlabreports@ghd.com.

Note: A copy of these results will also be delivered to the general GHD Pty Ltd WA email address.

eurofins

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Company Name: GHD Pty Ltd WA
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Project Name:
Project ID: 1266246

Order No.: 1266246
Report #: 1193218
Phone: 08 6222 8222
Fax: 08 9429 6555

Received: Feb 27, 2025 3:55 PM
Due: Mar 7, 2025
Priority: 5 Day
Contact Name: - ALL GHD lab reports

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Ammonia (as N)	Barium	Beryllium	Boron	Chloride	Cobalt	Fluoride	Manganese	Molybdenum	Nitrate-N	Nitrite-N	Phosphorus	Selenium	Sulfate	Vanadium	Metals M8	Organic Nitrogen Set (as N)	Moisture Set	Eurofins Suite B4	Total Nitrogen
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
Melbourne Laboratory - NATA # 1261 Site # 1254												X										X			
External Laboratory																									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																				
1	QCO2	Feb 24, 2025		Soil	L25-Fe0074019	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	QC04	Feb 24, 2025		Soil	L25-Fe0074020	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Test Counts						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

GHD Pty Ltd WA
999 Hay Street Perth
Perth
WA 6004

Attention: **Charlie Rolfe**

Report **1193218-S**
Project name
Project ID 1266246
Received Date Feb 27, 2025

Client Sample ID			**QC02**	**QC04**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**L25-Fe0074019**	**L25-Fe0074020**
Date Sampled			**Feb 24, 2025**	**Feb 24, 2025**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	130	78
TRH C10-C36 (Total)	50	mg/kg	130	78
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)*[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	110	< 100
TRH >C34-C40	100	mg/kg	190	130
TRH >C10-C40 (total)*	100	mg/kg	300	130
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3
BTEX				
4-Bromofluorobenzene (surr.)	1	%	68	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			QC02	QC04
Sample Matrix			Soil	Soil
Eurofins Sample No.			L25-Fe0074019	L25-Fe0074020
Date Sampled			Feb 24, 2025	Feb 24, 2025
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	144	91
p-Terphenyl-d14 (surr.)	1	%	140	86
Ammonia-N	10	mg/kg	< 10	< 10
Chloride	10	mg/kg	< 10	< 10
Fluoride	0.5	mg/kg	1.6	1.5
Nitrate-N	1	mg/kg	1.6	< 1
Nitrite-N	1	mg/kg	< 1	< 1
NOx-N	1	mg/kg	1.7	< 1
Sulfate	10	mg/kg	11	12
Total Kjeldahl Nitrogen	10	mg/kg	57	180
Total Nitrogen	10	mg/kg	59	180
Phosphorus	1	mg/kg	57	64
Heavy Metals				
Arsenic	2	mg/kg	2.3	13
Barium	10	mg/kg	< 10	< 10
Beryllium	2	mg/kg	< 2	< 2
Boron	10	mg/kg	< 10	< 10
Cadmium	0.1	mg/kg	< 0.1	< 0.1
Chromium	1	mg/kg	15	97
Cobalt	5	mg/kg	< 5	< 5
Copper	1	mg/kg	< 1	3.5
Lead	1	mg/kg	10	11
Manganese	5	mg/kg	40	25
Mercury	0.02	mg/kg	< 0.02	< 0.02
Molybdenum	5	mg/kg	< 5	< 5
Nickel	1	mg/kg	6.0	3.0
Selenium	2	mg/kg	< 2	< 2
Vanadium	10	mg/kg	21	110
Zinc	5	mg/kg	5.5	< 5
Sample Properties				
% Moisture	1	%	10	15

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	Welshpool	Mar 01, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Welshpool	Mar 01, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Welshpool	Mar 01, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Welshpool	Mar 01, 2025	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Welshpool	Mar 01, 2025	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Ammonia-N	Welshpool	Mar 01, 2025	7 Days
- Method: ARL304 - Ammonia in Soil and Sediment by Discrete Analyser			
Chloride	Welshpool	Mar 01, 2025	14 Days
- Method: ARL306 - Chloride in Soil and Sediment by Discrete Analyser			
Fluoride	Welshpool	Mar 24, 2025	28 Days
- Method: ARL No. 321 - Fluoride in Water by Discrete Analyser			
Nitrate-N	Welshpool	Mar 01, 2025	7 Days
- Method: ARL314 - NOx in Soil and Sediment by Discrete Analyser			
Nitrite-N	Welshpool	Mar 01, 2025	7 Days
- Method: ARL312 - Nitrite in Soil and Sediment by Discrete Analyser			
Sulfate	Welshpool	Mar 01, 2025	28 Days
- Method: ARL302 - Sulfate in Soil and Sediment by Discrete Analyser			
Phosphorus	Welshpool	Mar 01, 2025	7 Days
- Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS			
Metals M8	Welshpool	Mar 01, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Heavy Metals	Welshpool	Mar 01, 2025	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
NOx-N	Welshpool	Mar 06, 2025	7 Days
- Method: ARL314 - NOx in Soil and Sediment by Discrete Analyser			
Total Kjeldahl Nitrogen	Welshpool	Mar 06, 2025	7 Days
- Method: ARL118 - Total Phosphorus and TKN in Soil and Biosolids			
Total Nitrogen	Welshpool	Mar 06, 2025	7 Days
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
% Moisture	Welshpool	Feb 28, 2025	14 Days
- Method: ARL135 Moisture in Solids			

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Sample Detail						Ammonia (as N)	Barium	Beryllium	Boron	Chloride	Cobalt	Fluoride	Manganese	Molybdenum	Nitrate-N	Nitrite-N	Phosphorus	Selenium	Sulfate	Vanadium	Metals M8	Organic Nitrogen Set (as N)	Moisture Set	Eurofins Suite B4	Total Nitrogen
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X
Melbourne Laboratory - NATA # 1261 Site # 1254												X										X			
External Laboratory																									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																				
1	QCO2	Feb 24, 2025		Soil	L25-Fe0074019	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	QC04	Feb 24, 2025		Soil	L25-Fe0074020	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Test Counts						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

eurofins | Environment Testing

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Ammonia-N	mg/kg	< 10			10	Pass	
Nitrate-N	mg/kg	< 1			1	Pass	
Nitrite-N	mg/kg	< 1			1	Pass	
NOx-N	mg/kg	< 1			1	Pass	
Sulfate	mg/kg	< 10			10	Pass	
Phosphorus	mg/kg	< 1			1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Barium	mg/kg	< 10			10	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Manganese	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	mg/kg	< 0.02			0.02	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 1			1	Pass	
Selenium	mg/kg	< 2			2	Pass	
Vanadium	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Chloride	mg/kg	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	79			70-130	Pass	
TRH C6-C10	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	76			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	78			70-130	Pass	
o-Xylene	%	78			70-130	Pass	
Xylenes - Total*	%	78			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	82			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	93			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	93			70-130	Pass	
Benzo(a)pyrene	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	%	87			70-130	Pass	
Benzo(g.h.i)perylene	%	103			70-130	Pass	
Benzo(k)fluoranthene	%	96			70-130	Pass	
Chrysene	%	96			70-130	Pass	
Dibenz(a.h)anthracene	%	94			70-130	Pass	
Fluoranthene	%	102			70-130	Pass	
Fluorene	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	91			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	95			70-130	Pass	
Pyrene	%	101			70-130	Pass	
LCS - % Recovery							
Phosphorus	%	83			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	110			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Barium	%	116			80-120	Pass	
Beryllium	%	119			80-120	Pass	
Boron	%	107			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	87			80-120	Pass	
Cobalt	%	86			80-120	Pass	
Copper	%	83			80-120	Pass	
Lead	%	98			80-120	Pass	
Manganese	%	92			80-120	Pass	
Mercury	%	115			80-120	Pass	
Molybdenum	%	99			80-120	Pass	
Nickel	%	93			80-120	Pass	
Selenium	%	108			80-120	Pass	
Vanadium	%	85			80-120	Pass	
Zinc	%	94			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	111			70-130	Pass	
TRH >C10-C16	%	110			70-130	Pass	
CRM - % Recovery							
Sulfate	%	107			80-120	Pass	
Phosphorus	%	92			80-120	Pass	
CRM - % Recovery							
Total Recoverable Hydrocarbons							
TRH >C10-C16	%	109			70-130	Pass	
TRH >C34-C40	%	97			70-130	Pass	
CRM - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			80-120	Pass	
Acenaphthylene	%	109			80-120	Pass	
Anthracene	%	101			80-120	Pass	
Benz(a)anthracene	%	100			70-130	Pass	
Benzo(a)pyrene	%	88			80-120	Pass	
Benzo(b&j)fluoranthene	%	119			80-120	Pass	
Benzo(g.h.i)perylene	%	112			80-120	Pass	
Benzo(k)fluoranthene	%	83			80-120	Pass	
Dibenz(a.h)anthracene	%	103			80-120	Pass	
Fluoranthene	%	112			80-120	Pass	
Fluorene	%	102			80-120	Pass	
Indeno(1.2.3-cd)pyrene	%	92			80-120	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	108			80-120	Pass	
Pyrene	%	114			80-120	Pass	
CRM - % Recovery							
Chloride	%	106			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	L25-Fe0074381	NCP	%	75			70-130	Pass	
TRH C10-C14	L25-Fe0070204	NCP	%	84			70-130	Pass	
TRH C6-C10	L25-Fe0074381	NCP	%	88			70-130	Pass	
TRH >C10-C16	L25-Fe0070204	NCP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene	L25-Fe0074381	NCP	%	80			70-130	Pass	
Toluene	L25-Fe0074381	NCP	%	87			70-130	Pass	
Ethylbenzene	L25-Fe0074381	NCP	%	81			70-130	Pass	
m&p-Xylenes	L25-Fe0074381	NCP	%	83			70-130	Pass	
o-Xylene	L25-Fe0074381	NCP	%	76			70-130	Pass	
Xylenes - Total*	L25-Fe0074381	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	L25-Fe0074381	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	L25-Ma0011097	NCP	%	79			70-130	Pass	
Acenaphthylene	L25-Ma0011097	NCP	%	80			70-130	Pass	
Anthracene	L25-Ma0011097	NCP	%	98			70-130	Pass	
Benz(a)anthracene	L25-Ma0011097	NCP	%	85			70-130	Pass	
Benzo(a)pyrene	L25-Ma0011097	NCP	%	81			70-130	Pass	
Benzo(b&j)fluoranthene	L25-Ma0011097	NCP	%	102			70-130	Pass	
Benzo(g.h.i)perylene	L25-Ma0011097	NCP	%	99			70-130	Pass	
Benzo(k)fluoranthene	L25-Ma0011097	NCP	%	91			70-130	Pass	
Chrysene	L25-Ma0011097	NCP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	L25-Ma0011097	NCP	%	100			70-130	Pass	
Fluoranthene	L25-Ma0011097	NCP	%	100			70-130	Pass	
Fluorene	L25-Ma0011097	NCP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	L25-Ma0011097	NCP	%	88			70-130	Pass	
Naphthalene	L25-Ma0011097	NCP	%	83			70-130	Pass	
Phenanthrene	L25-Ma0011097	NCP	%	101			70-130	Pass	
Pyrene	L25-Ma0011097	NCP	%	106			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	L25-Fe0074020	CP	%	114			75-125	Pass	
Barium	L25-Fe0074020	CP	%	120			75-125	Pass	
Beryllium	L25-Fe0074020	CP	%	116			75-125	Pass	
Boron	L25-Fe0074020	CP	%	120			75-125	Pass	
Cadmium	L25-Fe0074020	CP	%	117			75-125	Pass	
Chromium	L25-Fe0074020	CP	%	102			75-125	Pass	
Cobalt	L25-Fe0074020	CP	%	104			75-125	Pass	
Copper	L25-Fe0074020	CP	%	101			75-125	Pass	
Lead	L25-Fe0074020	CP	%	115			75-125	Pass	
Manganese	L25-Fe0074020	CP	%	111			75-125	Pass	
Molybdenum	L25-Fe0074020	CP	%	114			75-125	Pass	
Nickel	L25-Fe0074020	CP	%	115			75-125	Pass	
Selenium	L25-Fe0074020	CP	%	112			75-125	Pass	
Vanadium	L25-Fe0074020	CP	%	111			75-125	Pass	
Zinc	L25-Fe0074020	CP	%	114			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	L25-Fe0070518	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	L25-Fe0074388	NCP	mg/kg	33	39	16	30%	Pass	
TRH C15-C28	L25-Fe0074388	NCP	mg/kg	7900	7900	1.0	30%	Pass	
TRH C29-C36	L25-Fe0074388	NCP	mg/kg	7300	8100	10	30%	Pass	
TRH C6-C10	L25-Fe0070518	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	L25-Fe0074388	NCP	mg/kg	250	290	12	30%	Pass	
TRH >C16-C34	L25-Fe0074388	NCP	mg/kg	13000	14000	4.0	30%	Pass	
TRH >C34-C40	L25-Fe0074388	NCP	mg/kg	4800	5900	20	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	L25-Fe0070518	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	L25-Fe0070518	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	L25-Fe0070518	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	L25-Fe0070518	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	L25-Fe0070518	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	L25-Fe0070518	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	L25-Fe0070518	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Benzo(b&j)fluoranthene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Benzo(k)fluoranthene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Fluoranthene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Fluorene	L25-Ma0014268	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	L25-Ma0011098	NCP	mg/kg	160	180	12	30%	Pass	
Phenanthrene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Pyrene	L25-Ma0011098	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L25-Ma0028841	NCP	mg/kg	13	12	3.0	30%	Pass	
Barium	L25-Ma0028841	NCP	mg/kg	71	70	2.0	30%	Pass	
Beryllium	L25-Ma0028841	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	L25-Ma0028841	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	L25-Ma0028841	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Chromium	L25-Ma0028841	NCP	mg/kg	58	59	2.0	30%	Pass	
Cobalt	L25-Ma0028841	NCP	mg/kg	14	14	2.0	30%	Pass	
Copper	L25-Ma0028841	NCP	mg/kg	15	15	2.0	30%	Pass	
Lead	L25-Ma0028841	NCP	mg/kg	23	24	2.0	30%	Pass	
Manganese	L25-Ma0028841	NCP	mg/kg	320	330	3.0	30%	Pass	
Mercury	L25-Ma0028841	NCP	mg/kg	< 0.02	< 0.02	<1	30%	Pass	
Molybdenum	L25-Ma0028841	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	L25-Ma0028841	NCP	mg/kg	12	12	2.0	30%	Pass	
Selenium	L25-Ma0028841	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Vanadium	L25-Ma0028841	NCP	mg/kg	110	110	2.0	30%	Pass	
Zinc	L25-Ma0028841	NCP	mg/kg	42	43	2.0	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	L25-Fe0074019	CP	%	10	9.5	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	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.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Sample Properties
Kim Rodgers	Senior Analyst-Metal
Luke Holt	Senior Analyst-Inorganic
Patrick Patfield	Senior Analyst-Organic
Patrick Patfield	Senior Analyst-Volatile
Sam Becker	Senior Analyst-Inorganic

Kim Rodgers
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

Attachment 4

QA/QC assessment

1. QA/QC Evaluation

The quality assurance (QA) and quality control (QC) procedures were undertaken in general accordance with the following guideline documents:

– ASC NEPM (NEPC 2013)

QA involves all the actions, procedures, checks and decisions undertaken to ensure the representativeness and integrity of samples, and the accuracy and reliability of analytical results (NEPC 2013). QC involves protocols to monitor and measure the effectiveness of QA procedures.

1.1 Field work program

Field QA/QC procedures and compliance during the investigation are summarised in Table 1.1, with exceptions detailed in the following subsections.

Table 1.1 Summary of field work QA/QC compliance

QA/QC element	Requirement	Requirement adhered to?	Information/ data acceptable?
Equipment calibration	Where relevant, all field equipment is to be calibrated by the equipment supplier and certification provided.	N/A	N/A
Sampling methods	All sampling methods outlined in Preliminary contaminant survey of reclamation fill technical memo (2024)	Yes	Yes
Record keeping	Detailed records of field activities were maintained with the use of borehole logging electronic-based applications, groundwater sampling sheets, and quality control sample registers.	N/A	N/A
CoC documentation	The CoC documentation was completed for each batch of samples, identifying the names of the samplers, the type of sample, the collection date, the analyses to be performed, sample preservation methods, and time the samples were relinquished to the courier.	Yes	Yes
Sample labelling	Samples were properly labelled, showing reference number, sample ID, date of collection, sampler name and preservation techniques.	Yes	Yes
Sample containers	Samples were collected in appropriate laboratory-supplied containers with suitable preservation methods (where required).	Yes	Yes
Sample storage and transport	Samples were stored in a chilled esky immediately after sampling prior to submission to the laboratory. Samples were kept in a chilled esky during delivery with CoC documentation. Samples were received at the laboratory within recommended temperature range (6 ± 2 °C).	Yes, with exceptions	See Table 1.2
Decontamination	Reusable field equipment (e.g., interface meter) were appropriately decontaminated using Liquinox between each sampling location.	Yes	Yes
Rinsate blanks	Rinsate samples were collected by the sampler on each day following decontamination of reusable sampling equipment. Analysis of rinsate blanks reported concentrations below laboratory LOR indicating equipment was decontaminated appropriately.	Yes	Yes

QA/QC element	Requirement	Requirement adhered to?	Information/ data acceptable?
Transport blanks	Transport blanks were prepared by the laboratory and submitted with each batch of samples (at a frequency of at least one transport blank per esky) to estimate potential cross-contamination between samples and contamination introduced during transport of samples to the laboratory. Analysis of transport blanks reported concentrations below laboratory LOR indicating no cross-contamination occurred within the eskies.	N/A	N/A
Field blanks	Field blanks were collected by the sampler on each day to estimate potential contamination of a sample during the collection procedure. Analysis of field blanks reported concentrations below laboratory LOR indicating no cross-contamination occurred during sampling.	N/A	N/A
Duplicate samples	Blind and split duplicate samples were collected for analysis by the primary and secondary laboratories, respectively (at a frequency of at least one pair per 20 primary sample). RPDs calculated for the duplicate samples were at or below 30%.	Yes, with exceptions	See Table 1.6

1.1.1 Sample containers, storage, and transport

All samples were collected in appropriate laboratory-supplied containers with suitable preservation methods (where applicable).

To aid sample integrity, all samples were promptly placed into a chilled esky (with double-bagged ice or ice bricks) following the completion of sampling. Eskies were delivered to the primary laboratory (ALS Environmental) and secondary laboratory (Eurofins | ARL) as soon as practicable via direct sample drop off.

Sample receipts noted the samples were higher than the recommended temperature (6 °C ± 2 °C). However, the receipts noted the presence of ice bricks or an attempt to chill samples. It is considered that every effort was made to keep samples chilled, on-site and during transport.

The temperatures of the samples upon receipt are summarised in Table 1.2.

Table 1.2 Summary of sample receipt temperatures

Lab Report Number	Sample Type	Temperature (°C)	Earliest Sample Date	Lab Received Date	Comments
EP2503279	Soil/water	19.8	24/02/2025	5/03/2025	-
1193218	Soil	17.0	24/02/2025	27/02/2025	-

1.1.2 Quality assurance – blank samples

The QA samples collected during the investigation were:

– **Rinsate blanks**: Rinsate blank samples are water samples collected from decontaminated, re-used field equipment and were used primarily to assess whether the decontamination procedure was effective and if cross-contamination has led to positive results in subsequent samples. Rinsate samples were collected by pouring laboratory supplied rinsate water over reusable sampling equipment (e.g., interface probe) and collecting it in laboratory supplied containers. Rinsate samples were then transferred to a chilled cooler for sample preservation prior to and during transport to the testing laboratory.

QA sampling frequency is summarised in Table 1.3.

Table 1.3 Summary of QA sample frequency

Field program	Sample Type	Required rate	No. collected/No. expected
Soil / Groundwater	Rinsate Blank	1 per day of sampling from one piece of reusable equipment	1/1

The blanks collected and analysed as part of the investigation are summarised in Table 1.4. All analyte concentrations for the rinsate blank are provided in Attachment 1 and were below the laboratory LOR.

Table 1.4 Summary of blank samples collected

Sample Type	Lab Report	Sample ID	Below LOR?
Rinsate	EP2407893	RIN040624	No (See Table 1.8)

The field blank results indicate that the primary samples were not influenced by any atmospheric contamination.

1.1.3 Quality control – duplicate samples

The groundwater and soil QC samples collected during the investigation were:

– **Blind duplicates**: Blind duplicate samples were used to identify the variation in the analyte concentration between samples from the same sampling point and the repeatability of the laboratory's analysis.
– **Split duplicates**: Split duplicate samples were used to provide an indication of the repeatability of the results between laboratories.

Field duplicate samples (blind and split) were collected in replicate bottles and jars during sampling. The required analyses were performed by ALS Laboratory group (primary laboratory) and Eurofins | ARL (secondary laboratory), both of whom are NATA accredited.

1.1.3.1 Sample collection frequency

Based on the scope of works, one pair of duplicates (blind and split) was required to be collected and analysed per 20 primary samples. The frequency of duplicates collected for this assessment is summarised in Table 1.5.

Table 1.5 Duplicate sampling frequency summary

Matrix	Rate	Number of duplicate samples/ expected number
Soil	1 duplicate pair per 20 primary samples	2/1

1.1.3.2 Relative percentage difference calculations

RPD calculations are used to assess how closely primary, blind duplicate and split duplicate sample results match. RPDs are a quantitative measure of the accuracy of the analytical results and are calculated in accordance with the procedure described in AS 4482.1 – 2005 (Standards Australia 2005). According to AS 4482.1 – 2005, typical RPDs are expected to range between 30% and 50%; however, this may be higher for organics and for low concentrations of analytes.

In accordance with the ASC NEPM (NEPC 2013), GHD has adopted a conservative RPD criteria of 30% for RPD assessments where the primary and/or duplicate sample concentrations were greater than or equal to the laboratory LOR, which is considered sufficient for this assessment.

Soil investigation

RPDs were calculated for two duplicate (blind & split) and primary pairs (Attachment 2). 33 of these exceeded the adopted 30% RPD acceptable limit where the primary and/or duplicate sample concentrations were greater than ten times the laboratory LOR. These exceedances are detailed in Table 1.6.

Table 1.6 Summary of soil RPD exceedances

Primary sample ID	QA/QC Field ID (Type)	Analyte	RPD	Primary Concentration	Duplicate Concentration	Split Concentration
3C	QC03 (Duplicate)	pH (Lab)	35	5.7	8.1	-
		Fluoride	109	270	80	-
	QC04 (Split)		198	270	-	1.5
		Nitrogen (Total)	40	120	-	180
		Kjeldahl Nitrogen Total	40	120	-	180
		Phosphorus (Total)	41	97	-	64
		Arsenic	89	<5	-	13
		Nickel	40	<2	-	3.0
		Vanadium	43	71	-	110
		>C10-C40 (Sum of Total)	89	<50	-	130
		C10-C36 (Sum of Total)	44	<50	-	78
6B	QC01 (Duplicate)	pH (Lab)	32	6.8	9.4	-
		Chloride	120	<10	40	-
		Fluoride	103	80	250	-
		Nitrate (as N)	67	0.1	0.2	-
		Nitrogen (Total Oxidised) (as N)	67	0.1	0.2	-
		Nitrogen (Total)	67	40	<20	-
		Kjeldahl Nitrogen Total	67	40	<20	-
		Phosphorus (Total)	31	125	91	-
		Aluminium	74	2,120	980	-
		Lead	166	10.6	1.0	-
		Vanadium	138	27	5	-
	QC02 (Split)	Fluoride	192	80	-	1.6
		Nitrate (as N)	176	0.1	-	1.6
		Nitrogen (Total Oxidised) (as N)	178	0.1	-	1.7
		Nitrogen (Total)	38	40	-	59
		Kjeldahl Nitrogen Total	35	40	-	57
		Phosphorus (Total)	75	125	-	57
		Manganese	39	27	-	40
		Nickel	100	<2	-	6.0
		F4 (>C34-C40 Fraction)	62	<100	-	190
		>C10-C40 (Sum of Total)	143	<50	-	300

Primary sample ID	QA/QC Field ID (Type)	Analyte	RPD	Primary Concentration	Duplicate Concentration	Split Concentration
		C10-C36 (Sum of Total)	89	<50	-	130

The soil exceedances of the RPD threshold of 30% were observed for hydrocarbons, metals, nutrients, chloride, fluoride and pH. It is noted that 20 of the 33 RPD non-compliances are from split duplicate samples, indicating the high RPD may be attributed to variability between sample preparation methods between the primary and secondary laboratories. Additionally, the differences observed in concentrations can also result from sample heterogeneity.

1.2 Laboratory program

Laboratory QA/QC procedures and compliance during the investigation are summarised in Table 1.7, with exceptions detailed in the following subsections.

Table 1.7 Summary of laboratory QA/QC compliance

QA/QC element	Requirement	Requirement adhered to?	Information/data acceptable?
NATA accreditation	Analysis of CoPC performed under NATA accreditation or equivalent government-endorsed provider of accreditation.	Yes	Yes, ALS and Eurofins are NATA accredited laboratories.
Holding times	Laboratory to complete sample extraction and analysis of CoPC within method specifications.	Yes, with exceptions	See Table 1.9
Analytical methods	Sample analyses are to use appropriate methods for each CoPC with regard to Schedule B(3) of the *ASC NEPM* and in accordance with the laboratory's NATA accreditation.	Yes	Yes
Laboratory LORs	Laboratory LORs are below adopted assessment criteria.	Yes, with exceptions	See Table 1.8.
Laboratory QC results	No method blank, laboratory duplicates, laboratory controls, matrix spike or surrogate spike recovery outliers were identified. Sufficient quantities of laboratory QC analysis were undertaken.	Yes, with exceptions	See Table 1.11.

1.2.1 Laboratory LORs

All laboratory LOR were below the adopted assessment criteria with the following exceptions detailed in Table 1.8. As a result of the exceedances listed in Table 1.8, where concentrations of these analytes are detected below the LOR, it cannot be concluded whether any concentrations were above these guidelines. Attempts were made to ensure that the requested laboratory LOR were sufficiently low to enable comparison with the adopted assessment criteria during the planning phase of the investigation. As such, the lowest LOR practicable were generally achieved. It is considered that, in general, due to the lack of detections of other analytes within similar chemical groupings and most other contaminants of concern, it is unlikely that there were exceedances of the assessment criteria or potential for false negative reporting.

Table 1.8 Laboratory LOR guideline exceedances

Matrix	Chemical Group	Analyte	Guideline exceeded	Guideline value	LOR
Soil	Metals	Silver	National Assessment Guidelines for Dredging 2009	1 mg/kg	<2 mg/kg
			ANZECC 2000 ISQG - Low		
	TRH - NEPM 2013	TRH F2 (>C10-C16 minus Naphthalene)	NEPM 2013 Table 1B(6) ESLs for Areas	25 mg/kg	<50 mg/kg

Matrix	Chemical Group	Analyte	Guideline exceeded	Guideline value	LOR
		TRH >C10-C16 Fraction	of Ecological Significance, Coarse Soil >=0m, <2m		
	PAHs	Acenaphthene	ANZECC 2000 ISQG - Low	0.016 mg/kg	<0.5 mg/kg
		Acenaphthylene		0.044 mg/kg	
		Anthracene		0.085 mg/kg	
		Benz(a)anthracene		0.261 mg/kg	
		Benzo(a)pyrene		0.43 mg/kg	
		Chrysene		0.384 mg/kg	
		Dibenz(a,h)anthracene	ANZECC 2000 ISQG - Low	0.063 mg/kg	
			ANZECC 2000 ISQG - High	0.063 mg/kg	
		Fluorene	ANZECC 2000 ISQG - Low	0.019 mg/kg	
		Naphthalene		0.16 mg/kg	
		Phenanthrene		0.24 mg/kg	

1.2.2 Holding time – outliers

All primary and secondary samples were analysed within laboratory holding times, with the exception of the exceedances summarised in Table 1.9.

Moisture and pH do not relate to specific CoPC for the site. GHD is satisfied that every effort was made for samples to be received at the laboratory to meet holding times.

Table 1.9 Holding time – outliers

Lab Report	Sample ID	Analytes	Sample date	Date extracted	Due for extraction	Date analysed	Due for analysis
EP2503279	7A, 7B, 7C, 6A, 6B, 6C, 5A, 5B, 5C, 4A, 4B, 4C, 3A, 3B, 3C, 1A, QC01, QC03	pH (1:5)	24/02/25	03/03/2025	07/03/2025	-	-
		Moisture Content		-	-	10/03/2025	11/03/2025
		Nitrite as N		07/03/2025	03/03/2025	-	-
	RB01	Total Hexavalent Chromium		-	-	06/03/2025	25/03/2025
		Nitrite		-	-	07/03/2025	26/03/2025
		Polynuclear Aromatic Hydrocarbons		10/03/2025	03/03/2025	-	-
		TPH		10/03/2025	03/03/2025	-	-
		TRH		10/03/2025	03/03/2025	-	-

1.2.3 Laboratory quality control procedures

Laboratory QC samples incorporated in the analytical process included:

- **Laboratory blind duplicates**: A laboratory blind duplicate provides data on the analytical precision and reproducibility of the analytical result. The laboratory blind duplicate is created by sub-sampling from one of the primary samples submitted for analysis. Laboratory blind duplicates are analysed at a rate equivalent to one in ten per analytical batch, or one sample per batch if less than 10 samples are analysed in a batch.
- **LCS:** The LCS analysis of either a reference material or a control matrix fortified with analytes representative of the analyte class. The purpose of LCS is to monitor method precision and accuracy independent of the sample matrix. Typically, the percentage recovery of the LCS is compared to the dynamic recovery limit based on the statistical analysis of the processed LCS analysis.
- **Matrix spikes**: Matrix spike sample analysis is the analysis of one or more replicate portions of samples from the batch, after fortifying the additional portion(s) with known quantities of the analyte(s) of interest. The percentage recovery of target analyte(s) from matrix spike samples is used to determine the bias of the method in the specific sample matrix.
- **Surrogate spikes**: Surrogate spikes provide a means of checking that no gross errors have occurred during any stage of the analytical method leading to significant analyte loss. Surrogate recoveries are similar to the analyte of interest in terms of chemical composition, extractability, and chromatographic conditions (retention time), but which are not normally found in environmental samples. Surrogate compounds are spiked into blanks, standards and samples submitted for organic analyses by gas-chromatographic techniques prior to sample extraction.
- **Method blanks**: Method or analysis blank sample analysis is the analysis of a sample that is as free as possible of the analytes of interest but has been prepared the same as the samples under investigation. The analysis is to ascertain if laboratory reagents, glassware and other laboratory consumables contribute to the observed concentration of analytes in the process batch. If below the maximum acceptable method blank (20% of the practical quantisation limit), the contribution is subtracted from the gross analytical signal for each analysis before calculating the sample analyte concentration. The method blank should return analyte concentrations as ‘not detected’.

1.2.4 Laboratory quality control results

Laboratory quality control results were compared against criteria set by ALS Environmental and Eurofins | ARL, which are largely based on the *ASC NEPM* (NEPC 2013) and US EPA (2006) methods. The individual testing laboratories conducted an assessment of the laboratory QC program internally; however, the results were also independently reviewed and assessed by GHD. All laboratory quality control measures were within the adopted acceptance criteria with the exception of those described in the subsection below.

The exceptions were limited and comprised a very small proportion of the large number of quality control measures completed for the investigation. Based on this, the exceptions described in the subsection below are not considered to significantly influence data quality.

1.2.4.1 QC sample frequency – outliers

All laboratory QC samples were tested with the expected frequency, with the exception of those summarised in Table 1.10. These outliers only represent a small portion of the internal lab QC program conducted. Therefore, these minor non-compliances are not considered to have materially affected the conclusions of this report.

Table 1.10 QC sample frequency – outliers

Lab Report	QC sample type	Method	Actual rate/ expected rate (%)
EP2503279	Laboratory Duplicates (DUP)	PAH/Phenols (GC/MS – SIM)	7.69/10
		TRH - Semivolatile Fraction	0/10
	Matrix Spikes (MS)	TRH - Semivolatile Fraction	0/5

1.2.4.2 Laboratory control – outliers

All laboratory control samples were of an acceptable recovery.

1.2.4.3 Duplicate – outliers

Duplicate samples were analysed and reported acceptable RPDs.

1.2.4.4 Matrix spike – outliers

All matrix spikes were of an acceptable recovery excepting those summarised in Table 1.11. One matrix spike outlier occurred which was recorded as 'anonymous' and not collected at the property and is likely not representative of the conditions encountered at the property.

In general, the outliers reported reflect a small proportion of the wider, substantial laboratory QC program conducted. As such, they are not considered to have adversely impacted the interpretability of the results.

Table 1.11 Matrix spike – outliers

Matrix	Lab Report	Sample ID	Analyte	Comment
Water	EP2503279	EP2503148--002	Mercury	Recovery less than lower data quality objective

1.2.4.5 Surrogate recovery – outliers

All laboratory surrogates were of an acceptable recovery.

1.3 Data quality indicator evaluation

An evaluation of the DQIs set for this assessment was undertaken subsequent to field works and laboratory analysis, this evaluation is presented in Table 1.12.

Table 1.12 Data quality indicator evaluation

DQI	Evaluation Criteria	Acceptable?
Completeness	All locations that were proposed to be sampled were sampled where possible.	Yes, with exceptions.
	All field documentation is complete and correct, including chain of custody documentation for samples.	Yes
	Field forms and documentation capture all relevant important information.	Yes
	Samples were analysed within appropriate holding times.	Yes, with exceptions.
	Appropriate laboratory limits of reporting for comparison to relevant assessment criteria.	Yes, with exceptions.
Comparability	Standardised operating procedure for soil and groundwater sampling were adhered to and is in line with relevant guidelines.	Yes, technical memo provided with sampling guidance.
	Field staff were experienced in the sampling of soil and groundwater were appropriately trained.	Yes.
	Consistent laboratory use with consistent analytical methods used.	Yes.
	Climatic conditions consistent and considered representative of region.	Yes.
Representativeness	Samples were collected in a uniform and consistent manner, therefore representative of the media in the field.	Yes.
Precision	Sufficient quantities of field blind and split duplicates were collected to enable comparison within and between laboratories.	Yes.

DQI	Evaluation Criteria	Acceptable?
	Sufficient quantities of internal laboratory duplicates were analysed to enable comparison within laboratories.	Yes.
	Relative percentage difference calculations show that a large majority of duplicate sample concentrations are within defined difference limits.	Yes.
	Field equipment was calibrated by equipment supplier	N/A.
Accuracy	Sufficient quantities of field blanks, and transport blanks were collected and analysed, with no results indicating cross-contamination.	Yes.
	Sufficient quantities of internal laboratory method blanks, surrogate spikes and laboratory control samples were analysed to determine laboratory accuracy, with the large majority of samples within defined limits.	Yes, with exceptions.

1.4 Conclusion

Based on the results of the evaluation of the QA/QC data described in the previous sections, the reported QA/QC non-compliances are not considered to significantly influence the reliability of the analytical data. It is further considered that:

- The field and laboratory quality assurance measures implemented are considered to provide a reasonable level of confidence that the data collected and reported is appropriately complete, comparable and representative.
- The field and laboratory quality control measures implemented are considered to provide a reasonable level of confidence that the data collected and reported is appropriately accurate and precise.

Systematic errors have not been identified. Whilst there are QA/QC outliers when considering the dataset as a whole the outliers do not impact the outcome of the assessment.

The overall review of the QA/QC results indicates that the data collected for the investigation is considered to be of acceptable quality upon which to provide an adequate and reliable assessment of the property.

Attachments

Attachment 1

Blanks – Analytical Results Summary

		Date	24 Feb 2025
		Field ID	RB01
		Sample Type	Rinsate
		Lab Report Number	EP2503279
		Matrix Type	Water
	Unit	LOR	
NA			
Sulfate as S - Turbidimetric (filtered)	mg/L	1	<1
Major Ions			
Chloride	mg/L	1	<1
Sulfate (filtered)	mg/L	1	<1
Fluoride	mg/L	0.1	<0.1
Nutrients			
Ammonia as N	mg/L	0.01	<0.01
Nitrate (as N)	mg/L	0.01	<0.01
Nitrite (as N)	mg/L	0.01	<0.01
Nitrogen (Total Oxidised) (as N)	mg/L	0.01	<0.01
Nitrogen (Total)	mg/L	0.1	<0.1
Kjeldahl Nitrogen Total	mg/L	0.1	<0.1
Phosphorus (Total)	mg/L	0.01	<0.01
Metals			
Aluminium	mg/L	0.01	<0.01
Arsenic	mg/L	0.001	<0.001
Barium	mg/L	0.001	<0.001
Beryllium	mg/L	0.001	<0.001
Boron	mg/L	0.05	<0.05
Cadmium	mg/L	0.0001	<0.0001
Chromium (III+VI)	mg/L	0.001	<0.001
Chromium (hexavalent)	mg/L	0.01	<0.01
Cobalt	mg/L	0.001	<0.001
Copper	mg/L	0.001	<0.001
Lead	mg/L	0.001	<0.001
Manganese	mg/L	0.001	<0.001
Mercury	mg/L	0.0001	<0.0001
Molybdenum	mg/L	0.001	<0.001
Nickel	mg/L	0.001	<0.001
Selenium	mg/L	0.01	<0.01
Silver	mg/L	0.001	<0.001
Vanadium	mg/L	0.01	<0.01
Zinc	mg/L	0.005	<0.005
BTEXN			
Naphthalene (value used in F2 calc)	µg/L	5	<5
Benzene	µg/L	1	<1
Toluene	µg/L	2	<2
Ethylbenzene	µg/L	2	<2
Xylene (o)	µg/L	2	<2
Xylene (m & p)	µg/L	2	<2
Xylene Total	µg/L	2	<2
BTEX (Sum of Total) - Lab Calc	µg/L	1	<1
TRH - NEPM 2013			
F1 (C6-C10 minus BTEX)	µg/L	20	<20
C6-C10 Fraction	µg/L	20	<20
F2 (>C10-C16 minus Naphthalene)	µg/L	100	<100
>C10-C16 Fraction	µg/L	100	<100
F3 (>C16-C34 Fraction)	µg/L	100	<100
F4 (>C34-C40 Fraction)	µg/L	100	<100
>C10-C40 (Sum of Total)	µg/L	100	<100
TRH - NEPM 1999			
C6-C9 Fraction	µg/L	20	<20
C10-C14 Fraction	µg/L	50	<50
C15-C28 Fraction	µg/L	100	<100
C29-C36 Fraction	µg/L	50	<50
C10-C36 (Sum of Total)	µg/L	50	<50
PAHs - standard 16			
Acenaphthene	µg/L	1	<1.0
Acenaphthylene	µg/L	1	<1.0
Anthracene	µg/L	1	<1.0
Benz(a)anthracene	µg/L	1	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5
Benzo[b+j]fluoranthene	µg/L	1	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0
Benzo(g,h,i)perylene	µg/L	1	<1.0
Chrysene	µg/L	1	<1.0
Dibenz(a,h)anthracene	µg/L	1	<1.0
Fluoranthene	µg/L	1	<1.0
Fluorene	µg/L	1	<1.0
Indeno(1,2,3-c,d)pyrene	µg/L	1	<1.0
Naphthalene	µg/L	1	<1.0
Phenanthrene	µg/L	1	<1.0
Pyrene	µg/L	1	<1.0
PAHs (Sum of total) - Lab calc	µg/L	0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	µg/L	0.5	<0.5

Attachment 2

RPD Calculations

		Location Code	3C	3C		3C	3C		6B	6B		6B	6B	
		Date	24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025	
		Field ID	3C	QC03		3C	QC04		6B	QC01		6B	QC02	
		Sample Type	Normal	Field_D		Normal	Interlab_D		Normal	Field_D		Normal	Interlab_D	
		Lab Report Number	EP2503279	EP2503279		EP2503279	1193218		EP2503279	EP2503279		EP2503279	1193218	
		Matrix Type	Soil	Soil	RPD	Soil	Soil	RPD	Soil	Soil	RPD	Soil	Soil	RPD
	Unit	EQL												
Inorganics														
% Moisture_	%	1	-	-	-	-	15	-	-	-	-	-	10	-
Moisture (%)	%	1	14.8	16.0	8	14.8	-	-	9.9	8.1	20	9.9	-	-
pH (Lab)	pH units	0.1	5.7	8.1	**35**	5.7	-	-	6.8	9.4	**32**	6.8	-	-
Major Ions														
Chloride	mg/kg	10	<10	<10	0	<10	<10	0	<10	40	**120**	<10	<10	0
Sulfate	mg/kg	10	-	-	-	-	12	-	-	-	-	-	11	-
Sulfate (filtered)	mg/kg	10	10	10	0	10	-	-	10	10	0	10	-	-
Fluoride	mg/kg	0.5	270	80	**109**	270	1.5	**198**	80	250	**103**	80	1.6	**192**
Nutrients														
Ammonia as N	mg/kg	10	<20	<20	0	<20	<10	0	<20	<20	0	<20	<10	0
Nitrate (as N)	mg/kg	0.1	0.2	0.2	0	0.2	<1	0	0.1	0.2	**67**	0.1	1.6	**176**
Nitrite (as N)	mg/kg	0.1	<0.1	<0.1	0	<0.1	<1	0	<0.1	<0.1	0	<0.1	<1	0
Nitrogen (Total Oxidised) (as N)	mg/kg	0.1	0.2	0.2	0	0.2	<1	0	0.1	0.2	**67**	0.1	1.7	**178**
Nitrogen (Total)	mg/kg	10	120	100	18	120	180	**40**	40	<20	**67**	40	59	**38**
Kjeldahl Nitrogen Total	mg/kg	10	120	100	18	120	180	**40**	40	<20	**67**	40	57	**35**
Phosphorus (Total)	mg/kg	1	97	95	2	97	64	**41**	125	91	**31**	125	57	**75**
Metals														
Aluminium	mg/kg	50	9,780	9,830	1	9,780	-	-	2,120	980	**74**	2,120	-	-
Arsenic	mg/kg	2	<5	<5	0	<5	13	**89**	<5	<5	0	<5	2.3	0
Barium	mg/kg	10	<10	<10	0	<10	<10	0	<10	<10	0	<10	<10	0
Beryllium	mg/kg	1	<1	<1	0	<1	<2	0	<1	<1	0	<1	<2	0
Boron	mg/kg	10	<50	<50	0	<50	<10	0	<50	<50	0	<50	<10	0
Cadmium	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
Chromium (III+VI)	mg/kg	1	-	-	-	-	97	-	-	-	-	-	15	-
Chromium (hexavalent)	mg/kg	0.5	<0.5	<0.5	0	<0.5	-	-	<0.5	<0.5	0	<0.5	-	-
Cobalt	mg/kg	2	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0
Copper	mg/kg	1	<5	<5	0	<5	3.5	0	<5	<5	0	<5	<1	0
Lead	mg/kg	0.1	8.3	10.6	24	8.3	11	28	10.6	1.0	**166**	10.6	10	6
Manganese	mg/kg	5	23	25	8	23	25	8	27	28	4	27	40	**39**
Mercury	mg/kg	0.02	<0.1	<0.1	0	<0.1	<0.02	0	<0.1	<0.1	0	<0.1	<0.02	0
Molybdenum	mg/kg	2	<2	<2	0	<2	<5	0	<2	<2	0	<2	<5	0
Nickel	mg/kg	1	<2	<2	0	<2	3.0	**40**	<2	<2	0	<2	6.0	**100**
Selenium	mg/kg	1	<1	<1	0	<1	<2	0	<1	<1	0	<1	<2	0
Silver	mg/kg	2	<2	<2	0	<2	-	-	<2	<2	0	<2	-	-
Vanadium	mg/kg	5	71	74	4	71	110	**43**	27	5	**138**	27	21	25
Zinc	mg/kg	5	<5	<5	0	<5	<5	0	<5	<5	0	<5	5.5	10
BTEXN														
Naphthalene (value used in F2 calc)	mg/kg	0.5	<1	<1	0	<1	<0.5	0	<1	<1	0	<1	<0.5	0
Benzene	mg/kg	0.1	<0.2	<0.2	0	<0.2	<0.1	0	<0.2	<0.2	0	<0.2	<0.1	0
Toluene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
Ethylbenzene	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
Xylene (o)	mg/kg	0.1	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.5	0	<0.5	<0.1	0
Xylene (m & p)	mg/kg	0.2	<0.5	<0.5	0	<0.5	<0.2	0	<0.5	<0.5	0	<0.5	<0.2	0
Xylene Total	mg/kg	0.3	<0.5	<0.5	0	<0.5	<0.3	0	<0.5	<0.5	0	<0.5	<0.3	0
BTEX (Sum of Total) - Lab Calc	mg/kg	0.2	<0.2	<0.2	0	<0.2	-	-	<0.2	<0.2	0	<0.2	-	-
TRH - NEPM 2013														
F1 (C6-C10 minus BTEX)	mg/kg	10	<10	<10	0	<10	<20	0	<10	<10	0	<10	<20	0
C6-C10 Fraction	mg/kg	10	<10	<10	0	<10	<20	0	<10	<10	0	<10	<20	0
F2 (>C10-C16 minus Naphthalene)	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
>C10-C16 Fraction	mg/kg	50	<50	<50	0	<50	<50	0	<50	<50	0	<50	<50	0
F3 (>C16-C34 Fraction)	mg/kg	100	<100	<100	0	<100	<100	0	<100	<100	0	<100	110	10
F4 (>C34-C40 Fraction)	mg/kg	100	<100	<100	0	<100	130	26	<100	<100	0	<100	190	**62**
>C10-C40 (Sum of Total)	mg/kg	50	<50	<50	0	<50	130	**89**	<50	<50	0	<50	300	**143**
TRH - NEPM 1999														
C6-C9 Fraction	mg/kg	10	<10	<10	0	<10	<20	0	<10	<10	0	<10	<20	0
C10-C14 Fraction	mg/kg	20	<50	<50	0	<50	<20	0	<50	<50	0	<50	<20	0
C15-C28 Fraction	mg/kg	50	<100	<100	0	<100	<50	0	<100	<100	0	<100	<50	0
C29-C36 Fraction	mg/kg	50	<100	<100	0	<100	78	0	<100	<100	0	<100	130	26
C10-C36 (Sum of Total)	mg/kg	50	<50	<50	0	<50	78	**44**	<50	<50	0	<50	130	**89**
PAHs - standard 16														

Location Code			3C	3C		3C	3C		6B	6B		6B	6B	
Date			24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025		24 Feb 2025	24 Feb 2025	
Field ID			3C	QC03		3C	QC04		6B	QC01		6B	QC02	
Sample Type			Normal	Field_D		Normal	Interlab_D		Normal	Field_D		Normal	Interlab_D	
Lab Report Number			EP2503279	EP2503279		EP2503279	1193218		EP2503279	EP2503279		EP2503279	1193218	
Matrix Type			Soil	Soil	RPD	Soil	Soil	RPD	Soil	Soil	RPD	Soil	Soil	RPD
	Unit	EQL												
Acenaphthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Acenaphthylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benz(a)anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo[b+j]fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Chrysene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Fluoranthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Fluorene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Naphthalene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Phenanthrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Pyrene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
PAHs (Sum of total) - Lab calc	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
Total 8 PAHs (as BaP TEQ) (half LOR) - Lab Calc	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0	0.6	0.6	0	0.6	0.6	0
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Calc	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0	1.2	1.2	0	1.2	1.2	0

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