

TECHNICAL MEMORANDUM



WAE250276-01 003 TM Rev0

18 August 2025

To: Garrett Meyn

e-mail: Garrett.meyn@leic.com.au

From: Brad Palmer

Sender's email: brad.palmer@galtenv.com.au

FACTUAL REPORT ON ENVIRONMENTAL TESTING OF MATERIALS LAKE MACLEOD

Dear Garrett,

1. INTRODUCTION

This factual report presents the findings of Galt Environmental's (Galt's) environmental testing of materials from the proposed crystalliser ponds and stormwater levee development at Lake Macleod ('the site').

An overview of the site and sampling locations is shown on Figure 1 and Figure 2.

2. OBJECTIVES

The objectives of this study were to:

- Assess the material for a range of contaminants of potential concern (COPC) and other analytes.

3. FIELDWORK

General

Fieldwork was carried out on 15 to 20 July 2025 by a Galt representative and comprised:

- A site walkover, including taking photographs
- Drilling of boreholes at 18 locations across the site and;
- Collection of representative samples for field testing and laboratory analysis.

Soil Sampling

Soil samples were collected from the boreholes for environmental testing in accordance with the following guidelines and Australian Standards (AS):

- Department of Environment Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes*;
- Department of Agriculture and Water Resources (DAWR) (2018) *National Acid Sulfate Soils Guidance*;
- AS 4482.1 (2005) *Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil Part 1 Non-Volatile and Semi Volatile Compounds*; and
- AS 4482.2 (1999) *Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil Part 2 Volatile Compounds*

Galt Environmental Pty Ltd

Samples collected for acid sulfate soils testing were collected at 0.25 m intervals using dedicated nitrile gloves and placed in laboratory-supplied sample bags.

Samples collected for laboratory analysis of contaminants of potential concern (COPC) were collected at 0.5m using dedicated nitrile gloves and placed in a laboratory-supplied glass jars.

All the samples were placed in an ice chilled cooler in the field, and then transferred to a freezer until field testing was undertaken. All samples scheduled for analysis were transported to the laboratory with sufficient packaging and ice to ensure preservation of sample integrity.

Acid sulfate soil field testing

Soil samples were field tested in accordance with the Department of Environmental Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes* guideline document. Soil samples were tested for pH before (pH_F) and after (pH_{FOX}) rapid oxidation with hydrogen peroxide (H₂O₂). The field tests were undertaken to provide an indication of soil types likely to have the potential to generate acidity as a result of oxidation during earthworks.

Selected soil samples were couriered to the laboratory with adequate packing and ice to ensure that they arrived intact and at the appropriate temperature to ensure sample preservation. Laboratory analysis was undertaken on selected soil samples for the range of analyses outlined below in Section 4. All laboratory analysis was undertaken using NATA-accredited methods of analysis.

Acid sulfate field testing results are presented in Attachment A.

4. LABORATORY ANALYSIS

Selected soil samples were analysed by NATA accredited laboratories to assess the following as specified by the Client:

- Heavy metals (Al, As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Si, Tl, Zn);
- pH;
- Chromium reducible sulfur (CRS);
- Acid Base Accounting (ABA):
 - Actual acidity;
 - Retained acidity;
 - Potential acidity;
 - Acid neutralising capacity and;
 - Calculated NAPP

All samples were stored with adequate packing and ice and transported to the laboratory to ensure that they arrived intact and at the appropriate temperature to ensure preservation of sample integrity.

The chain of custody documentation is presented in Attachment B and the laboratory certificates of analysis are presented in Attachment C.

5. REGULATORY ASSESSMENT CRITERIA

Regulatory assessment criteria for heavy metals analysis were selected taking into account the following:

- the previous and current land use;
- the proposed re-use of materials,

Regulatory assessment criteria were selected taking into account the consistency with relevant published guidelines including the following:

- Department of Environmental Regulation (DER) (2015) *Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes*;
- National Environment Protection (2013) *National Environmental Protection (Assessment of Site Contamination) Measure (ASC NEPM)*;

The soil samples were assessed against the following:

- HILs D - Health investigation levels for commercial/industrial 1A(1);
- EILs D – Generic ecological significance for commercial/industrial 1B(5) and;
- EILs – Areas of ecological significance (1B(5))

6. RESULTS

A summary of the soil laboratory analytical results is shown in Table 1 below. The tabulated analytical results, including the relevant assessment criteria is provided in Attachment D.

Table 1: Soil Analytical Results

Analyte	Results Range	Exceedances ¹
<i>Field Testing</i>		
pH _f	6.9 – 9.2	N/A
pH _{fox}	6.1 – 8.2	N/A
pH _f - pH _{fox}	0.6 – 2.3	N/A
<i>Laboratory Analysis</i>		
Lab pH	8.2 – 9.6	N/A
Potential Acidity (PA) as kg H ₂ SO ₄ /t	< LOR – 8.5	N/A
Acid Neutralising Capacity (ANC) as CaCO ₃	-2.77 - 85	N/A
Calculated NAPP	< LOR – (-)836.8	N/A
Net Acid Generation (NAG) pH 7 as kg H ₂ SO ₄ /t	< LOR - 11	N/A
Net Acid Generation (NAG) pH 4.5 as kg H ₂ SO ₄ /t	< LOR	
Chromium Reducible Sulfur (CRS) %S	< LOR – 0.28	N/A
<i>Metals (mg/kg)</i>		
Aluminium	210 - 15,000	None
Arsenic	<LOR	None
Cadmium	<LOR - 8.9mg/kg	None
Chromium (III+VI)	0.1 - 0.1mg/kg	None
Copper	<LOR - 45mg/kg	None

Analyte	Results Range	Exceedances ¹
Iron	<LOR - 14mg/kg	None
Lead	340 - 21,000mg/kg	None
Manganese	1 - 8mg/kg	None
Mercury	5.4 - 460mg/kg	None
Nickel	0.02mg/kg	None
Selenium	1 - 16mg/kg	None
Silicon	250 - 900mg/kg	None
Thallium	<LOR	None
Zinc	<LOR - 37mg/kg	None

- Notes:**
1. Exceedances of the relevant assessment criteria outlined in section 5.
 2. <LOR denotes below the laboratory limit of reporting.

7. CONCLUSION

We draw your attention to Attachment E of this report, "Understanding Your Report". The information provided within is intended to inform you as to what your realistic expectations of this report should be. This information is provided not to reduce the level of responsibility accepted by Galt, but to ensure that all parties who rely on this report are aware of the responsibilities each assumes in so doing

GALT ENVIRONMENTAL

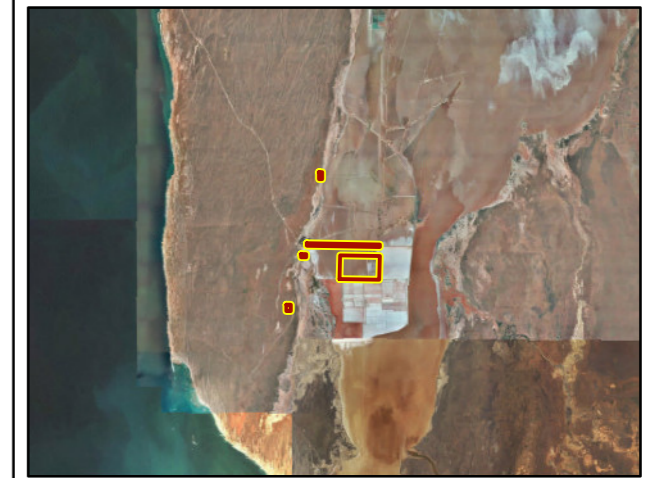
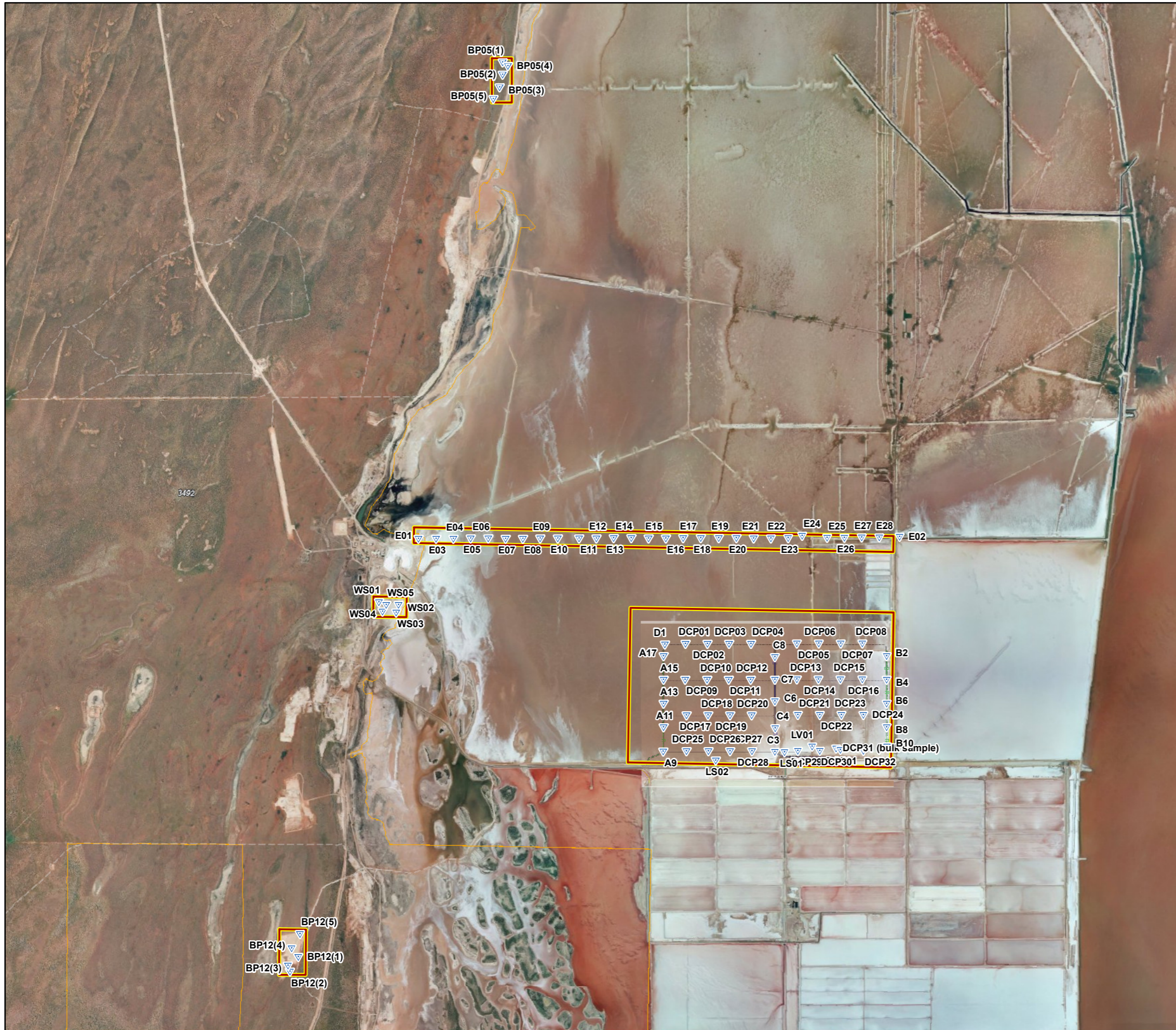


Brad Palmer

Environmental Scientist

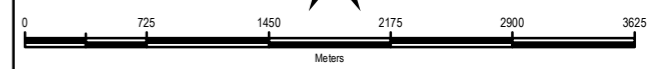
<https://galtgeo.sharepoint.com/sites/WAG250276/Shared Documents/01 Leichhardt SJ/03 Correspondence/WAG250276-01 003 TM Rev0a.docx>

FIGURES



Legend

- Site Boundary
- Dynamic Cone Penetration Test



NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP

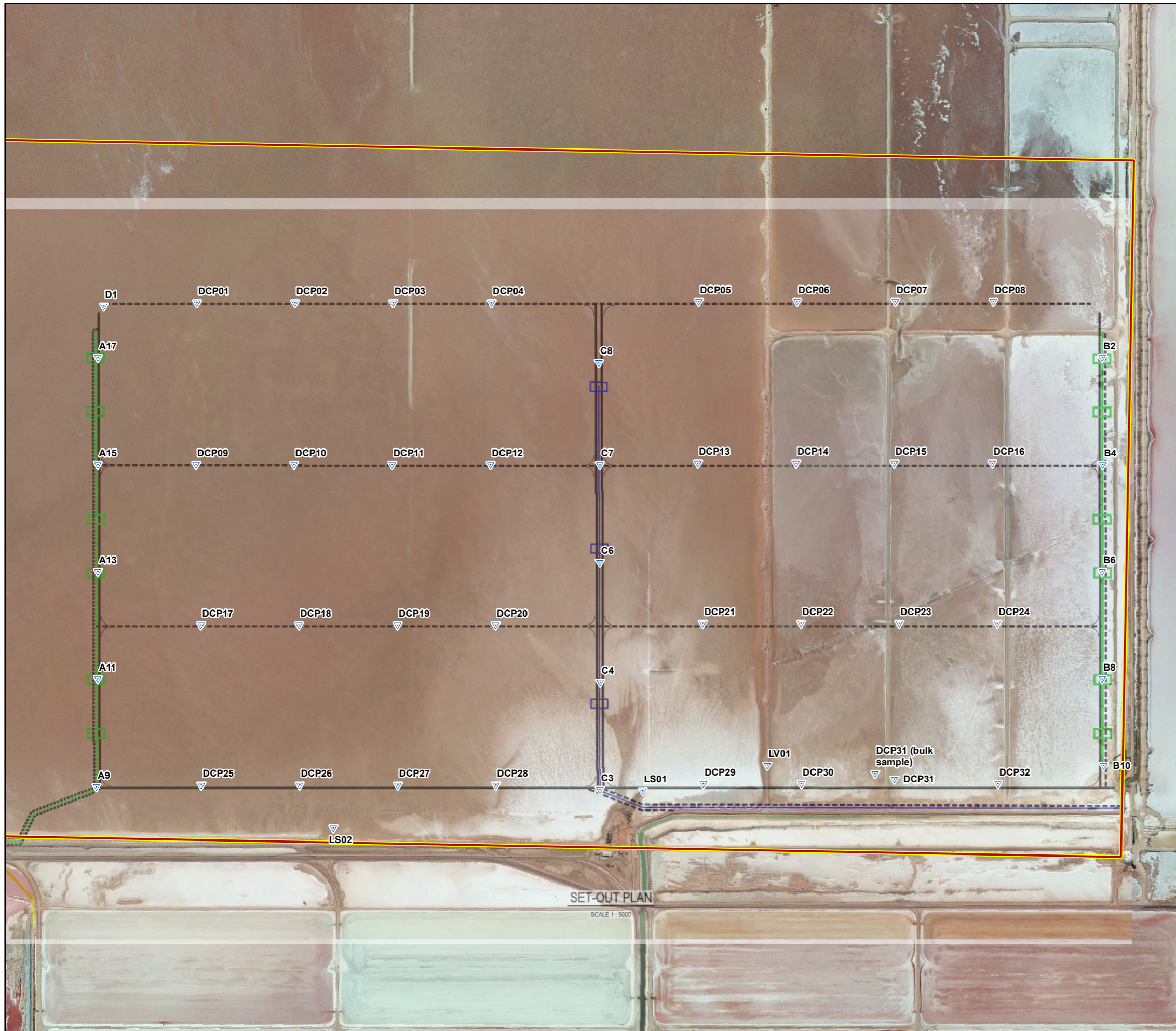


SCALE	1:45,000	(A3)
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DATE DRAWN	29/7/2025	
CHECKED	-	
DATE CHECKED	-	
PROJECTION	GDA 1994 MGA Zone 49	

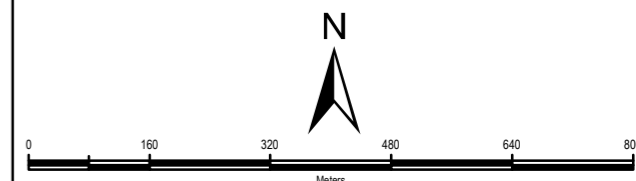
Galt Geotechnics Pty Ltd
 ACN : 138 490 865
 Tel : +61 (0)8 6272-0200
 Address : 50 Edward Street
 Osborne Park WA 6017

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CLIENT	LEICHHARDT		
PROJECT	PROPOSED CRYSTALLISER PONDS AND STORMWATER LEVEE		
LOCATION	LAKE MACLEOD		
TITLE	SITE & LOCATION PLAN		
Job No	WAG250276-01	Fig No	FIGURE 1
Rev	A		



- Legend**
- Site Boundary
 - ▽ Dynamic Cone Penetration Test



NOTES
Aerial Imagery and Cadastre sourced from Landgate/SLIP



SCALE	1:10,000	(A3)
DRAWN	DAC	
DATE DRAWN	11/08/2025	
CHECKED	-	
DATE CHECKED	-	
PROJECTION	GDA 1994 MGA Zone 49	

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CLIENT	LEICHHARDT		
PROJECT	PROPOSED CRYSTALLISER PONDS AND STORMWATER LEVEE		
LOCATION	LAKE MACLEOD CRYSTALLISER PONDS		
TITLE	SITE & LOCATION PLAN		
Job No	WAG250276-01	Fig No	FIGURE 2
		Rev	A



ATTACHMENT A

Field Testing Results

Field Testing Results



Field Observations				
Sample ID	pH _f	pH _{fox}	pH _f - pH _{fox}	Reaction Rate
Location	pH units	pH units	pH units	LMHXV
	4	4	1	NV
A09	6.9	6.2	0.7	L
A15	7.4	6.2	1.2	L
E01	8.0	6.7	1.3	L
E05	8.3	6.6	1.7	L
E08	8.2	6.6	1.6	L
E12	8.2	6.3	1.9	L
E15	8.1	6.2	1.9	L
E18	8.4	6.3	2.1	L
E21	8.2	6.2	2.0	L
E23	8.4	6.6	1.8	L
E24	8.5	6.4	2.1	L
E27	9.1	6.9	2.2	L
W01	8.4	6.9	1.5	M
W02	8.9	7.8	1.1	M
W03	8.8	8.2	0.6	H
W04	8.8	7.8	1.0	M
W05	8.9	8.2	0.7	M
DCP06	8.7	6.4	2.3	L
DCP08	8.5	6.2	2.3	L
DCP11	8.3	6.1	2.2	L
DCP15	8.4	6.2	2.2	L
DCP16	8.5	6.3	2.2	L
DCP21	8.7	6.4	2.3	L
DCP22	8.7	6.4	2.3	L
DCP27	8.4	6.3	2.1	L
DCP31	8.4	6.2	2.2	M
DCP32	8.7	6.4	2.3	L
LS01	8.9	6.9	2.0	L
LS02	8.6	7.2	1.4	H
BP05(1)	8.7	6.7	2.0	L
BP05(2)	9.2	6.9	2.3	L
BP05(3)	9.1	7.0	2.1	L
BP05(4)	8.7	7.1	1.6	L
BP05(5)	8.6	6.7	1.9	L
BP12(1)	9.1	7.4	1.7	M
BP12(2)	8.4	7.4	1.0	H
BP12(3)	8.8	7.1	1.7	L
BP12(4)	8.7	6.8	1.9	L
BP12(5)	8.4	6.9	1.5	L



ATTACHMENT B

Chain of Custody Documentation

1252673



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521



Sydney Laboratory
Unit F3 BK F 16 Mars Road Lane Cove West NSW 2056
02 9909 3400 EnviroSampleNSW@eurofins.com



Brisbane Laboratory
Unit 1 21 Smallwood Place Muramba QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com



Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com



Melbourne Laboratory
6 Montery Road Dandenong South VIC 3175
03 8544 5000 EnviroSampleVic@eurofins.com

Company		Galt Environment P/L		Project No		WAG250276		Project Manager			Sampler(s)	
Address		50 Edward Street, Osborne Park		Project Name		Lake Macleod		EDD Format	ESDAT	Facility Code	Handed over by	
Contact Name				Analyse <small>(Where metals are measured, please specify 'Cd', or 'Cr', or 'Pb', or 'Sb', or 'Se', or 'Si', or 'Ti', or 'Zn')</small> (SUIE code must be used to access SUIE data)	Total metals (Al, As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Si, Ti, Zn)		Total Silicone - subcontracted		Acid base accounting - S13 and S14		Rhianna Wilcox	
Phone No		(08) 6272 0200			pH						Email for Invoice	
Special Directions		0452 233 943									accounts@galtenv.com.au	
Purchase Order		WAG250276									Email for Results	
Quote ID No		180801GAL									lab.results@galtenv.com.au; galtenv@esdat.com.au	
											Required Turnaround Time (TAT)	
										Containers <small>Change container type & size if necessary</small>		
										Required Turnaround Time (TAT) <small>Default will be 5 days if not ticked</small>		
										*Surcharge will apply Overnight (reporting by 9am)		
										Same day * 1 day * 2 days * 3 days * 5 days (Standard) Other ()		
										Sample Comments Dangerous Goods Hazard Warning		
No	Client Sample ID	Sampled Date/Time	Matrix									
			Soil (S) Water (W)									
1	A09	20/07/25	Soil	X	X	X	X					
2	A15	20/07/25	Soil	X	X	X	X					
3	E01	20/07/25	Soil	X	X	X	X					
4	E05	20/07/25	Soil	X	X	X	X					
5	E08	20/07/25	Soil	X	X	X	X					
6	E12	19/07/25	Soil	X	X	X	X					
7	E15	19/07/25	Soil	X	X	X	X					
8	E18	19/07/25	Soil	X	X	X	X					
9	E21	19/07/25	Soil	X	X	X	X					
10	E23	19/07/25	Soil	X	X	X	X					
11	E24	19/07/25	Soil	X	X	X	X					
12	E27	19/07/25	Soil	X	X	X	X					
13	W01	16/07/25	Soil	X	X	X	X					
14	W02	16/07/25	Soil	X	X	X	X					
15	W03	16/07/25	Soil	X	X	X	X					



ATTACHMENT C

Laboratory Certificates of Analysis

Galt Environment P/L
50 Edward Street
Osborne Park
WA 6017

Attention: - ALL SRA/Results

Report 1252673-S
Project name LAKE MACLEOD
Project ID WAG250276
Received Date Aug 05, 2025

Client Sample ID			A09	A15	E01	E05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013148	L25- Au0013149	L25- Au0013150	L25- Au0013151
Date Sampled			Jul 20, 2025	Jul 20, 2025	Jul 20, 2025	Jul 20, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.6	8.5	8.3	8.5
Aqua Regia Digestible Silicon	1	mg/kg	250	410	390	470
% Moisture	1	%	14	21	19	22
Heavy Metals						
Aluminium	20	mg/kg	360	870	950	3600
Iron	20	mg/kg	620	1500	1600	4800
Manganese	5	mg/kg	5.4	13	55	52
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	< 2	< 2	< 2	5.3
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	< 1	1.9	3.1	9.0
Copper	1	mg/kg	< 1	< 1	< 1	1.8
Lead	1	mg/kg	< 1	< 1	1.1	3.6
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	1.3	2.7
Zinc	5	mg/kg	< 5	< 5	< 5	6.2
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO3)*	0.1	% CaCO3	2.9	3.8	14	15
Acid Neutralising Capacity (as H2SO4/t)*	0.5	kgH2SO4/t	28	37	140	140
Acid Production Potential (by CRS)	0.15	kgH2SO4/t	< 0.15	0.18	0.17	3.6
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	0.006	0.006	0.12
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH2SO4/t	(-)28.13	(-)36.54	(-)135.77	(-)139.48
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	7.0	7.5	10	11

Client Sample ID			E08	E12	E15	E18
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013152	L25- Au0013153	L25- Au0013154	L25- Au0013155
Date Sampled			Jul 20, 2025	Jul 19, 2025	Jul 19, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.4	8.2	8.4	8.4
Aqua Regia Digestible Silicon	1	mg/kg	330	400	360	310
% Moisture	1	%	20	21	23	16
Heavy Metals						
Aluminium	20	mg/kg	1200	820	1000	930
Iron	20	mg/kg	1800	1300	1800	1600
Manganese	5	mg/kg	27	15	14	17
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	3.3	1.6	2.2	2.0
Copper	1	mg/kg	< 1	< 1	< 1	< 1
Lead	1	mg/kg	1.1	< 1	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	1.2	< 1	1.0	< 1
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO3)*	0.1	% CaCO3	4.3	3.7	-1.54	-2.77
Acid Neutralising Capacity (as H2SO4/t)*	0.5	kgH2SO4/t	42	37	< 0.5	< 0.5
Acid Production Potential (by CRS)	0.15	kgH2SO4/t	2.6	< 0.15	1.0	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	0.084	< 0.005	0.033	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH2SO4/t	(-)39.1	(-)36.54	1.0	< 0.1
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	8.5	7.1	7.7	7.0

Client Sample ID			E21	E23	E24	E27
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013156	L25- Au0013157	L25- Au0013158	L25- Au0013159
Date Sampled			Jul 19, 2025	Jul 19, 2025	Jul 19, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.2	8.6	8.6	8.6
Aqua Regia Digestible Silicon	1	mg/kg	330	360	430	610
% Moisture	1	%	23	24	24	13
Heavy Metals						
Aluminium	20	mg/kg	1500	1000	2100	750
Iron	20	mg/kg	3200	1800	3800	1000
Manganese	5	mg/kg	21	20	39	18
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10

Client Sample ID			E21	E23	E24	E27
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013156	L25- Au0013157	L25- Au0013158	L25- Au0013159
Date Sampled			Jul 19, 2025	Jul 19, 2025	Jul 19, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
Metals M8						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	3.5	2.0	5.0	3.3
Copper	1	mg/kg	1.4	< 1	2.2	< 1
Lead	1	mg/kg	< 1	< 1	1.5	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	1.6	1.1	2.3	< 1
Zinc	5	mg/kg	< 5	< 5	6.1	< 5
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	-2.51	1.4	2.9	33
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	< 0.5	14	28	330
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	0.60	< 0.15	1.2	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	0.020	< 0.005	0.038	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	0.6	(-)-13.92	(-)-26.76	(-)-325.57
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	7.2	7.3	8.3	9.1

Client Sample ID			W01	W02	W03	W04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013160	L25- Au0013161	L25- Au0013162	L25- Au0013163
Date Sampled			Jul 16, 2025	Jul 16, 2025	Jul 16, 2025	Jul 16, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	9.4	9.2	9.5	9.5
Aqua Regia Digestible Silicon	1	mg/kg	410	900	560	300
% Moisture	1	%	19	21	24	16
Heavy Metals						
Aluminium	20	mg/kg	260	450	690	210
Iron	20	mg/kg	460	740	1000	340
Manganese	5	mg/kg	80	110	130	62
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	1.1	1.6	2.9	< 1
Copper	1	mg/kg	< 1	< 1	< 1	< 1
Lead	1	mg/kg	< 1	< 1	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	1.1	< 1
Zinc	5	mg/kg	6.1	< 5	< 5	< 5

Client Sample ID			W01	W02	W03	W04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013160	L25- Au0013161	L25- Au0013162	L25- Au0013163
Date Sampled			Jul 16, 2025	Jul 16, 2025	Jul 16, 2025	Jul 16, 2025
Test/Reference	LOR	Unit				
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	4.4	3.4	5.5	2.6
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	43	33	54	25
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	< 0.15	< 0.15	0.29	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	< 0.005	0.009	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)43.15	(-)32.9	(-)53.69	(-)25.36
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	11	11	10	9.4

Client Sample ID			W05	DCP06	DCP08	DCP11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013164	L25- Au0013165	L25- Au0013166	L25- Au0013167
Date Sampled			Jul 16, 2025	Jul 19, 2025	Jul 19, 2025	Jul 20, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	9.3	8.5	8.4	8.3
Aqua Regia Digestible Silicon	1	mg/kg	560	480	300	420
% Moisture	1	%	20	24	21	22
Heavy Metals						
Aluminium	20	mg/kg	500	1100	710	1100
Iron	20	mg/kg	830	2000	1200	1800
Manganese	5	mg/kg	93	16	8.8	13
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	1.8	2.3	1.5	2.3
Copper	1	mg/kg	< 1	< 1	< 1	< 1
Lead	1	mg/kg	< 1	< 1	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	1.0	< 1	1.0
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	6.4	1.8	1.8	1.5
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	62	17	18	15
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	0.31	< 0.15	0.21	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	0.010	< 0.005	0.007	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)62.07	(-)17.36	(-)17.82	(-)14.99
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	1.7	< 0.1	11
pH After Oxidation (pH NAG)*	0.1	pH Units	11	6.9	7.1	6.4

Client Sample ID			DCP15	DCP16	DCP21	DCP22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013168	L25- Au0013169	L25- Au0013170	L25- Au0013171
Date Sampled			Jul 19, 2025	Jul 20, 2025	Jul 19, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.6	8.6	8.9	8.7
Aqua Regia Digestible Silicon	1	mg/kg	370	390	290	400
% Moisture	1	%	24	28	25	27
Heavy Metals						
Aluminium	20	mg/kg	1000	5500	2800	3200
Iron	20	mg/kg	1900	7800	4000	4600
Manganese	5	mg/kg	14	46	29	30
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	< 2	2.7	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	2.3	12	5.5	6.5
Copper	1	mg/kg	< 1	4.6	2.8	2.9
Lead	1	mg/kg	< 1	1.2	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	4.7	2.1	2.7
Zinc	5	mg/kg	< 5	13	6.2	7.0
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO3)*	0.1	% CaCO3	2.1	2.5	1.8	2.0
Acid Neutralising Capacity (as H2SO4/t)*	0.5	kgH2SO4/t	21	25	17	19
Acid Production Potential (by CRS)	0.15	kgH2SO4/t	0.23	0.20	< 0.15	0.18
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	0.008	0.007	< 0.005	0.006
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH2SO4/t	(-)20.71	(-)24.48	(-)17.31	(-)19
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH2SO4/t	3.3	0.2	3.1	8.9
pH After Oxidation (pH NAG)*	0.1	pH Units	6.8	7.0	6.8	6.5

Client Sample ID			DCP27	DCP31	DCP32	LV01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013172	L25- Au0013173	L25- Au0013174	L25- Au0013175
Date Sampled			Jul 20, 2025	Jul 19, 2025	Jul 20, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.4	8.4	8.9	8.7
Aqua Regia Digestible Silicon	1	mg/kg	310	900	320	450
% Moisture	1	%	25	44	27	6.7
Heavy Metals						
Aluminium	20	mg/kg	3400	9000	2500	6800
Iron	20	mg/kg	5200	13000	3800	8500
Manganese	5	mg/kg	32	460	25	190
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10

Client Sample ID			DCP27	DCP31	DCP32	LV01
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013172	L25- Au0013173	L25- Au0013174	L25- Au0013175
Date Sampled			Jul 20, 2025	Jul 19, 2025	Jul 20, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
Metals M8						
Arsenic	2	mg/kg	< 2	3.0	< 2	5.1
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Chromium	1	mg/kg	7.1	23	4.8	24
Copper	1	mg/kg	2.8	8.6	2.0	8.4
Lead	1	mg/kg	< 1	3.1	< 1	3.6
Mercury	0.02	mg/kg	< 0.02	0.02	< 0.02	< 0.02
Nickel	1	mg/kg	2.8	8.1	2.2	8.5
Zinc	5	mg/kg	7.2	23	5.9	16
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	3.1	13	2.0	65
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	31	120	19	640
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	< 0.15	7.5	0.29	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	0.24	0.009	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)30.58	(-)117.53	(-)18.89	(-)639.63
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	1.2	5.4	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	6.9	6.5	9.9	8.9

Client Sample ID			LS01	LS02	BP05 (1)	BP05 (2)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013176	L25- Au0013177	L25- Au0013178	L25- Au0013179
Date Sampled			Jul 19, 2025	Jul 19, 2025	Jul 16, 2025	Jul 16, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.6	8.6	9.2	9.0
Aqua Regia Digestible Silicon	1	mg/kg	690	290	430	370
% Moisture	1	%	37	28	10	5.9
Heavy Metals						
Aluminium	20	mg/kg	9400	3200	7700	6900
Iron	20	mg/kg	13000	4600	8400	7600
Manganese	5	mg/kg	280	34	130	130
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	4.9	< 2	8.3	7.1
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	23	7.5	26	21
Copper	1	mg/kg	8.7	3.2	4.6	5.1
Lead	1	mg/kg	3.7	1.0	3.5	3.2
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	8.5	2.9	6.2	6.1
Zinc	5	mg/kg	25	7.2	15	15

Client Sample ID			LS01	LS02	BP05 (1)	BP05 (2)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013176	L25- Au0013177	L25- Au0013178	L25- Au0013179
Date Sampled			Jul 19, 2025	Jul 19, 2025	Jul 16, 2025	Jul 16, 2025
Test/Reference	LOR	Unit				
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	16	11	71	68
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	150	110	690	670
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	8.5	1.5	< 0.15	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	0.28	0.050	< 0.005	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)146.03	(-)103.67	(-)693.4	(-)668.16
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	8.9	11	11	11

Client Sample ID			BP05 (3)	BP05 (4)	BP05 (5)	BP12(1)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L25- Au0013180	L25- Au0013181	L25- Au0013182	L25- Au0013183
Date Sampled			Jul 16, 2025	Jul 16, 2025	Jul 16, 2025	Jul 19, 2025
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.9	8.8	9.6	8.6
Aqua Regia Digestible Silicon	1	mg/kg	590	350	470	540
% Moisture	1	%	8.5	8.1	2.5	5.8
Heavy Metals						
Aluminium	20	mg/kg	7900	6400	4100	15000
Iron	20	mg/kg	8200	7200	6100	21000
Manganese	5	mg/kg	180	93	150	410
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	8.9	5.9	7.3	5.7
Cadmium	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
Chromium	1	mg/kg	25	18	13	45
Copper	1	mg/kg	4.8	6.2	4.2	14
Lead	1	mg/kg	3.6	3.0	2.6	8.0
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	0.02
Nickel	1	mg/kg	6.9	6.8	4.0	16
Zinc	5	mg/kg	16	13	12	37
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	66	57	30	11
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	650	550	290	110
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	< 0.15	< 0.15	< 0.15	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	< 0.005	< 0.005	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)649.08	(-)554.25	(-)292.11	(-)108.83
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	11	11	11	11

Client Sample ID Sample Matrix			BP12(2) Soil L25- Au0013184 Jul 19, 2025	BP12(3) Soil L25- Au0013185 Jul 19, 2025	BP12(4) Soil L25- Au0013186 Jul 19, 2025	BP12(5) Soil L25- Au0013187 Jul 19, 2025
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
pH	0.1	pH Units	8.7	8.4	8.6	8.5
Aqua Regia Digestible Silicon	1	mg/kg	370	440	490	500
% Moisture	1	%	4.0	8.2	6.1	6.1
Heavy Metals						
Aluminium	20	mg/kg	10000	7700	11000	8900
Iron	20	mg/kg	13000	8500	12000	10000
Manganese	5	mg/kg	180	120	220	170
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Thallium	10	mg/kg	< 10	< 10	< 10	< 10
Metals M8						
Arsenic	2	mg/kg	6.9	7.3	7.2	6.0
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	31	22	31	25
Copper	1	mg/kg	9.9	4.7	6.7	6.5
Lead	1	mg/kg	5.2	3.4	4.6	3.8
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	11	7.7	9.7	8.2
Zinc	5	mg/kg	23	14	21	18
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO3)*	0.1	% CaCO3	50	85	73	59
Acid Neutralising Capacity (as H2SO4/t)*	0.5	kgH2SO4/t	490	840	720	570
Acid Production Potential (by CRS)	0.15	kgH2SO4/t	< 0.15	< 0.15	< 0.15	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	< 0.005	< 0.005	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH2SO4/t	(-)488.02	(-)836.8	(-)718.43	(-)573.32
Net Acid Generation						
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH2SO4/t	< 0.1	< 0.1	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	11	11	11	11

Client Sample ID Sample Matrix			QC101 Soil L25- Au0013188 Jul 19, 2025	QC102 Soil L25- Au0013189 Jul 19, 2025
Eurofins Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
pH	0.1	pH Units	8.3	9.3
Aqua Regia Digestible Silicon	1	mg/kg	420	890
% Moisture	1	%	28	21
Heavy Metals				
Aluminium	20	mg/kg	2200	790
Iron	20	mg/kg	3100	910
Manganese	5	mg/kg	75	140
Selenium	2	mg/kg	< 2	< 2
Thallium	10	mg/kg	< 10	< 10

Client Sample ID			QC101	QC102
Sample Matrix			Soil	Soil
Eurofins Sample No.			L25- Au0013188	L25- Au0013189
Date Sampled			Jul 19, 2025	Jul 19, 2025
Test/Reference	LOR	Unit		
Metals M8				
Arsenic	2	mg/kg	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1
Chromium	1	mg/kg	6.4	2.5
Copper	1	mg/kg	2.3	< 1
Lead	1	mg/kg	1.9	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02
Nickel	1	mg/kg	2.8	< 1
Zinc	5	mg/kg	8.6	< 5
Net Acid Production Potential (by CRS)				
Acid Neutralising Capacity (as CaCO ₃)*	0.1	% CaCO ₃	7.2	4.2
Acid Neutralising Capacity (as H ₂ SO ₄ /t)*	0.5	kgH ₂ SO ₄ /t	71	41
Acid Production Potential (by CRS)	0.15	kgH ₂ SO ₄ /t	< 0.15	< 0.15
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) ^{S04}	0.005	% S	< 0.005	< 0.005
Net Acid Production Potential (NAPP) by CRS*	0.1	kgH ₂ SO ₄ /t	(-)70.94	(-)41.47
Net Acid Generation				
Net Acid Generation: NAG (initial to pH 4.5)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	0.1	kgH ₂ SO ₄ /t	< 0.1	< 0.1
pH After Oxidation (pH NAG)*	0.1	pH Units	11	11

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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
pH - Method: ARL138 - pH in Soil and Biosolid	Welshpool	Aug 07, 2025	7 Days
Aqua Regia Digestible Silicon - Method: ARL No. 315 - Reactive Silica in Water by Discrete Analyser	Welshpool	Aug 06, 2025	N/A
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Aug 07, 2025	28 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Aug 07, 2025	28 Days
Net Acid Production Potential (by CRS)			
Acid Neutralising Capacity (as CaCO ₃)* - Method: Net Acid Production Potential (by CRS)	Brisbane	Aug 11, 2025	6 Week
Acid Production Potential (by CRS) - Method: Net Acid Production Potential (by CRS)	Brisbane	Aug 11, 2025	6 Week
Chromium Reducible Sulfur (s-SCR) (NLM-2.1) - Method: Net Acid Production Potential (by CRS)	Brisbane	Aug 11, 2025	N/A
Net Acid Generation - Method: Miller S.D (1998)	Brisbane	Aug 07, 2025	6 Week
% Moisture - Method: ARL135 Moisture in Solids	Welshpool	Aug 06, 2025	14 Days

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Project ID: WAG250276

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Received: Aug 5, 2025 2:40 PM
Due: Aug 12, 2025
Priority: 5 Day
Contact Name: Rhianna Wilcox

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Aluminium	Aqua Regia Digestible Silicon	Iron	Manganese	pH	Selenium	Thallium	Metals M8	Moisture Set	Net Acid Production Potential (by CRS)	Net Acid Generation
Perth Laboratory - NATA # 2377 Site # 2370 & 2554						X	X	X	X	X	X	X	X	X		
Melbourne Laboratory - NATA # 1261 Site # 1254															X	
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780															X	X
External Laboratory																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	A09	Jul 20, 2025		Soil	L25-Au0013148	X	X	X	X	X	X	X	X	X	X	X
2	A15	Jul 20, 2025		Soil	L25-Au0013149	X	X	X	X	X	X	X	X	X	X	X
3	E01	Jul 20, 2025		Soil	L25-Au0013150	X	X	X	X	X	X	X	X	X	X	X
4	E05	Jul 20, 2025		Soil	L25-Au0013151	X	X	X	X	X	X	X	X	X	X	X
5	E08	Jul 20, 2025		Soil	L25-Au0013152	X	X	X	X	X	X	X	X	X	X	X
6	E12	Jul 19, 2025		Soil	L25-Au0013153	X	X	X	X	X	X	X	X	X	X	X
7	E15	Jul 19, 2025		Soil	L25-Au0013154	X	X	X	X	X	X	X	X	X	X	X
8	E18	Jul 19, 2025		Soil	L25-Au0013155	X	X	X	X	X	X	X	X	X	X	X
9	E21	Jul 19, 2025		Soil	L25-Au0013156	X	X	X	X	X	X	X	X	X	X	X
10	E23	Jul 19, 2025		Soil	L25-Au0013157	X	X	X	X	X	X	X	X	X	X	X
11	E24	Jul 19, 2025		Soil	L25-Au0013158	X	X	X	X	X	X	X	X	X	X	X
12	E27	Jul 19, 2025		Soil	L25-Au0013159	X	X	X	X	X	X	X	X	X	X	X

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Company Name: Galt Environment P/L
Address: 50 Edward Street
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 WA 6017

Project Name: LAKE MACLEOD
Project ID: WAG250276

Order No.: WAG250276
Report #: 1252673
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Aug 5, 2025 2:40 PM
Due: Aug 12, 2025
Priority: 5 Day
Contact Name: Rhianna Wilcox

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail					Aluminium	Aqua Regia Digestible Silicon	Iron	Manganese	pH	Selenium	Thallium	Metals M8	Moisture Set	Net Acid Production Potential (by CRS)	Net Acid Generation
Perth Laboratory - NATA # 2377 Site # 2370 & 2554					X	X	X	X	X	X	X	X	X		
Melbourne Laboratory - NATA # 1261 Site # 1254														X	
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780														X	X
External Laboratory															
13	W01	Jul 16, 2025		Soil	L25-Au0013160	X	X	X	X	X	X	X	X	X	X
14	W02	Jul 16, 2025		Soil	L25-Au0013161	X	X	X	X	X	X	X	X	X	X
15	W03	Jul 16, 2025		Soil	L25-Au0013162	X	X	X	X	X	X	X	X	X	X
16	W04	Jul 16, 2025		Soil	L25-Au0013163	X	X	X	X	X	X	X	X	X	X
17	W05	Jul 16, 2025		Soil	L25-Au0013164	X	X	X	X	X	X	X	X	X	X
18	DCP06	Jul 19, 2025		Soil	L25-Au0013165	X	X	X	X	X	X	X	X	X	X
19	DCP08	Jul 19, 2025		Soil	L25-Au0013166	X	X	X	X	X	X	X	X	X	X
20	DCP11	Jul 20, 2025		Soil	L25-Au0013167	X	X	X	X	X	X	X	X	X	X
21	DCP15	Jul 19, 2025		Soil	L25-Au0013168	X	X	X	X	X	X	X	X	X	X
22	DCP16	Jul 20, 2025		Soil	L25-Au0013169	X	X	X	X	X	X	X	X	X	X
23	DCP21	Jul 19, 2025		Soil	L25-Au0013170	X	X	X	X	X	X	X	X	X	X
24	DCP22	Jul 19, 2025		Soil	L25-Au0013171	X	X	X	X	X	X	X	X	X	X
25	DCP27	Jul 20, 2025		Soil	L25-Au0013172	X	X	X	X	X	X	X	X	X	X
26	DCP31	Jul 19, 2025		Soil	L25-Au0013173	X	X	X	X	X	X	X	X	X	X

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Project ID: WAG250276

Order No.: WAG250276
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Phone: 08 6272 0200
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Sample Detail					Aluminium	Aqua Regia Digestible Silicon	Iron	Manganese	pH	Selenium	Thallium	Metals M8	Moisture Set	Net Acid Production Potential (by CRS)	Net Acid Generation
Perth Laboratory - NATA # 2377 Site # 2370 & 2554					X	X	X	X	X	X	X	X	X		
Melbourne Laboratory - NATA # 1261 Site # 1254														X	
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780														X	X
External Laboratory															
27	DCP32	Jul 20, 2025		Soil	L25-Au0013174	X	X	X	X	X	X	X	X	X	X
28	LV01	Jul 19, 2025		Soil	L25-Au0013175	X	X	X	X	X	X	X	X	X	X
29	LS01	Jul 19, 2025		Soil	L25-Au0013176	X	X	X	X	X	X	X	X	X	X
30	LS02	Jul 19, 2025		Soil	L25-Au0013177	X	X	X	X	X	X	X	X	X	X
31	BP05 (1)	Jul 16, 2025		Soil	L25-Au0013178	X	X	X	X	X	X	X	X	X	X
32	BP05 (2)	Jul 16, 2025		Soil	L25-Au0013179	X	X	X	X	X	X	X	X	X	X
33	BP05 (3)	Jul 16, 2025		Soil	L25-Au0013180	X	X	X	X	X	X	X	X	X	X
34	BP05 (4)	Jul 16, 2025		Soil	L25-Au0013181	X	X	X	X	X	X	X	X	X	X
35	BP05 (5)	Jul 16, 2025		Soil	L25-Au0013182	X	X	X	X	X	X	X	X	X	X
36	BP12(1)	Jul 19, 2025		Soil	L25-Au0013183	X	X	X	X	X	X	X	X	X	X
37	BP12(2)	Jul 19, 2025		Soil	L25-Au0013184	X	X	X	X	X	X	X	X	X	X
38	BP12(3)	Jul 19, 2025		Soil	L25-Au0013185	X	X	X	X	X	X	X	X	X	X
39	BP12(4)	Jul 19, 2025		Soil	L25-Au0013186	X	X	X	X	X	X	X	X	X	X
40	BP12(5)	Jul 19, 2025		Soil	L25-Au0013187	X	X	X	X	X	X	X	X	X	X



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Sample Detail					Aluminium	Aqua Regia Digestible Silicon	Iron	Manganese	pH	Selenium	Thallium	Metals M8	Moisture Set	Net Acid Production Potential (by CRS)	Net Acid Generation
Perth Laboratory - NATA # 2377 Site # 2370 & 2554					X	X	X	X	X	X	X	X	X		
Melbourne Laboratory - NATA # 1261 Site # 1254														X	
Brisbane Laboratory - NATA # 1261 Site # 20794 & 2780														X	X
External Laboratory															
41	QC101	Jul 19, 2025		Soil	L25-Au0013188	X	X	X	X	X	X	X	X	X	X
42	QC102	Jul 19, 2025		Soil	L25-Au0013189	X	X	X	X	X	X	X	X	X	X
Test Counts					42	42	42	42	42	42	42	42	42	42	42

DRAFT

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ppm: parts per million

µg/L: micrograms per litre

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

CFU: Colony Forming Unit

Colour: Pt-Co Units (CU)

Terms

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

QC - Acceptance Criteria

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

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

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

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

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

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

QC Data General Comments

- 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.
- 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.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Aluminium	mg/kg	< 20			20	Pass	
Iron	mg/kg	< 20			20	Pass	
Manganese	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Thallium	mg/kg	< 10			10	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Mercury	mg/kg	< 0.02			0.02	Pass	
Nickel	mg/kg	< 1			1	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/kg	< 20			20	Pass	
Iron	mg/kg	< 20			20	Pass	
Manganese	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Thallium	mg/kg	< 10			10	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	
Copper	mg/kg	< 1			1	Pass	
Lead	mg/kg	< 1			1	Pass	
Mercury	mg/kg	< 0.02			0.02	Pass	
Nickel	mg/kg	< 1			1	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Aqua Regia Digestible Silicon	mg/kg	< 1			1	Pass	
Method Blank							
Aqua Regia Digestible Silicon	mg/kg	< 1			1	Pass	
Method Blank							
Aqua Regia Digestible Silicon	mg/kg	< 1			1	Pass	
Method Blank							
Heavy Metals							
Aluminium	mg/kg	< 20			20	Pass	
Iron	mg/kg	< 20			20	Pass	
Manganese	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Thallium	mg/kg	< 10			10	Pass	
Method Blank							
Metals M8							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.1			0.1	Pass	
Chromium	mg/kg	< 1			1	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 1		1	Pass	
Lead	mg/kg	< 1		1	Pass	
Mercury	mg/kg	< 0.02		0.02	Pass	
Nickel	mg/kg	< 1		1	Pass	
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Aqua Regia Digestible Silicon	mg/kg	< 1		1	Pass	
LCS - % Recovery						
Heavy Metals						
Iron	%	101		80-120	Pass	
Manganese	%	96		80-120	Pass	
Selenium	%	96		80-120	Pass	
Thallium	%	96		80-120	Pass	
LCS - % Recovery						
Metals M8						
Arsenic	%	97		80-120	Pass	
Cadmium	%	95		80-120	Pass	
Chromium	%	94		80-120	Pass	
Copper	%	95		80-120	Pass	
Lead	%	94		80-120	Pass	
Mercury	%	95		80-120	Pass	
Nickel	%	94		80-120	Pass	
Zinc	%	95		80-120	Pass	
LCS - % Recovery						
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	%	112		70-130	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	%	103		80-120	Pass	
LCS - % Recovery						
Net Acid Generation						
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	%	87		70-130	Pass	
LCS - % Recovery						
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	%	92		70-130	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	%	98		80-120	Pass	
LCS - % Recovery						
Net Acid Generation						
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	%	83		70-130	Pass	
LCS - % Recovery						
Net Acid Production Potential (by CRS)						
Acid Neutralising Capacity (as CaCO ₃)*	%	95		70-130	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	%	97		80-120	Pass	
LCS - % Recovery						
Heavy Metals						
Iron	%	108		80-120	Pass	
Manganese	%	103		80-120	Pass	
Selenium	%	99		80-120	Pass	
Thallium	%	97		80-120	Pass	
LCS - % Recovery						
Metals M8						
Arsenic	%	100		80-120	Pass	
Cadmium	%	98		80-120	Pass	
Chromium	%	101		80-120	Pass	
Copper	%	102		80-120	Pass	
Lead	%	94		80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	%	101			80-120	Pass	
Nickel	%	103			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	84			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	89			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Aluminium	%	93			80-120	Pass	
Iron	%	108			80-120	Pass	
Manganese	%	107			80-120	Pass	
Selenium	%	106			80-120	Pass	
Thallium	%	112			80-120	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	115			80-120	Pass	
Cadmium	%	110			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	111			80-120	Pass	
Mercury	%	106			80-120	Pass	
Nickel	%	114			80-120	Pass	
Zinc	%	112			80-120	Pass	
CRM - % Recovery							
Heavy Metals							
Selenium	%	100			80-120	Pass	
Thallium	%	99			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	99			80-120	Pass	
Cadmium	%	102			80-120	Pass	
Chromium	%	106			80-120	Pass	
Copper	%	107			80-120	Pass	
Lead	%	98			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	107			90-110	Pass	
CRM - % Recovery							
Heavy Metals							
Manganese	%	109			80-120	Pass	
Selenium	%	103			80-120	Pass	
Thallium	%	101			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	101			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	105			80-120	Pass	
Lead	%	98			80-120	Pass	
Nickel	%	110			80-120	Pass	
CRM - % Recovery							
Heavy Metals							
Aluminium	%	106			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Iron	%	98			80-120	Pass	
Manganese	%	96			80-120	Pass	
Selenium	%	107			80-120	Pass	
Thallium	%	103			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	103			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	92			80-120	Pass	
Copper	%	90			80-120	Pass	
Lead	%	97			80-120	Pass	
Nickel	%	94			80-120	Pass	
Zinc	%	98			90-110	Pass	
CRM - % Recovery							
Heavy Metals							
Aluminium	%	106			80-120	Pass	
Iron	%	104			80-120	Pass	
Manganese	%	104			80-120	Pass	
Selenium	%	98			80-120	Pass	
Thallium	%	99			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	97			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	102			80-120	Pass	
Lead	%	95			80-120	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	100			90-110	Pass	
CRM - % Recovery							
Metals M8							
Mercury	%	95			70-130	Pass	
CRM - % Recovery							
Heavy Metals							
Selenium	%	99			80-120	Pass	
Thallium	%	94			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	106			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	97			70-130	Pass	
CRM - % Recovery							
Metals M8							
Cadmium	%	96			80-120	Pass	
Lead	%	102			80-120	Pass	
CRM - % Recovery							
Heavy Metals							
Selenium	%	107			80-120	Pass	
Thallium	%	99			80-120	Pass	
CRM - % Recovery							
Metals M8							
Arsenic	%	99			80-120	Pass	
Cadmium	%	102			80-120	Pass	

Test		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium		%	106			80-120	Pass	
Copper		%	107			80-120	Pass	
Lead		%	98			80-120	Pass	
Nickel		%	104			80-120	Pass	
Zinc		%	107			90-110	Pass	
CRM - % Recovery								
Heavy Metals								
Manganese		%	109			80-120	Pass	
Selenium		%	105			80-120	Pass	
Thallium		%	101			80-120	Pass	
CRM - % Recovery								
Metals M8								
Arsenic		%	101			80-120	Pass	
Cadmium		%	100			80-120	Pass	
Chromium		%	105			80-120	Pass	
Lead		%	98			80-120	Pass	
Nickel		%	110			80-120	Pass	
CRM - % Recovery								
Heavy Metals								
Aluminium		%	106			80-120	Pass	
Iron		%	98			80-120	Pass	
Manganese		%	96			80-120	Pass	
Selenium		%	91			80-120	Pass	
Thallium		%	103			80-120	Pass	
CRM - % Recovery								
Metals M8								
Arsenic		%	103			80-120	Pass	
Cadmium		%	105			80-120	Pass	
Chromium		%	92			80-120	Pass	
Copper		%	90			80-120	Pass	
Lead		%	97			80-120	Pass	
Nickel		%	94			80-120	Pass	
Zinc		%	98			90-110	Pass	
CRM - % Recovery								
Metals M8								
Mercury		%	93			70-130	Pass	
CRM - % Recovery								
Heavy Metals								
Aluminium		%	96			80-120	Pass	
Iron		%	102			80-120	Pass	
Selenium		%	101			80-120	Pass	
CRM - % Recovery								
Metals M8								
Mercury		%	109			70-130	Pass	
CRM - % Recovery								
Heavy Metals								
Aluminium		%	101			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals								
				Result 1				
Aluminium	L25-Au0013149	CP	%	108		75-125	Pass	
Manganese	L25-Au0013149	CP	%	80		75-125	Pass	
Selenium	L25-Au0013149	CP	%	87		75-125	Pass	
Thallium	L25-Au0013149	CP	%	83		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	L25-Au0013149	CP	%	86		75-125	Pass	
Cadmium	L25-Au0013149	CP	%	85		75-125	Pass	
Chromium	L25-Au0013149	CP	%	81		75-125	Pass	
Copper	L25-Au0013149	CP	%	82		75-125	Pass	
Lead	L25-Au0013149	CP	%	81		75-125	Pass	
Mercury	L25-Au0013149	CP	%	86		75-125	Pass	
Nickel	L25-Au0013149	CP	%	81		75-125	Pass	
Zinc	L25-Au0013149	CP	%	83		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Manganese	L25-Au0013159	CP	%	123		75-125	Pass	
Selenium	L25-Au0013159	CP	%	104		75-125	Pass	
Thallium	L25-Au0013159	CP	%	105		75-125	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	L25-Au0013159	CP	%	107		75-125	Pass	
Cadmium	L25-Au0013159	CP	%	108		75-125	Pass	
Chromium	L25-Au0013159	CP	%	111		75-125	Pass	
Copper	L25-Au0013159	CP	%	105		75-125	Pass	
Lead	L25-Au0013159	CP	%	100		75-125	Pass	
Mercury	L25-Au0013159	CP	%	105		75-125	Pass	
Nickel	L25-Au0013159	CP	%	109		75-125	Pass	
Zinc	L25-Au0013159	CP	%	107		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Iron	L25-Au0013165	CP	%	89		75-125	Pass	
Manganese	L25-Au0013165	CP	%	98		75-125	Pass	
Selenium	L25-Au0013165	CP	%	100		75-125	Pass	
Thallium	L25-Au0013165	CP	%	95		75-125	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Arsenic	L25-Au0013165	CP	%	97		75-125	Pass	
Cadmium	L25-Au0013165	CP	%	97		75-125	Pass	
Chromium	L25-Au0013165	CP	%	96		75-125	Pass	
Copper	L25-Au0013165	CP	%	96		75-125	Pass	
Lead	L25-Au0013165	CP	%	90		75-125	Pass	
Mercury	L25-Au0013165	CP	%	96		75-125	Pass	
Nickel	L25-Au0013165	CP	%	96		75-125	Pass	
Zinc	L25-Au0013165	CP	%	96		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Selenium	L25-Au0013175	CP	%	106		75-125	Pass	
Thallium	L25-Au0013175	CP	%	108		75-125	Pass	
Spike - % Recovery								
Metals M8				Result 1				
Cadmium	L25-Au0013175	CP	%	117		75-125	Pass	
Chromium	L25-Au0013175	CP	%	122		75-125	Pass	
Copper	L25-Au0013175	CP	%	110		75-125	Pass	
Lead	L25-Au0013175	CP	%	105		75-125	Pass	
Mercury	L25-Au0013175	CP	%	110		75-125	Pass	
Nickel	L25-Au0013175	CP	%	105		75-125	Pass	
Zinc	L25-Au0013175	CP	%	122		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Selenium	L25-Au0013185	CP	%	120			75-125	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Copper	L25-Au0013185	CP	%	122			75-125	Pass	
Lead	L25-Au0013185	CP	%	124			75-125	Pass	
Mercury	L25-Au0013185	CP	%	125			75-125	Pass	
Nickel	L25-Au0013185	CP	%	122			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
pH	L25-Au0015033	NCP	pH Units	9.9	9.9	<1	30%	Pass	
Aqua Regia Digestible Silicon	L25-Au0013148	CP	mg/kg	250	280	12	20%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Aluminium	L25-Au0013148	CP	mg/kg	360	330	6.0	30%	Pass	
Iron	L25-Au0013148	CP	mg/kg	620	590	5.0	30%	Pass	
Manganese	L25-Au0013148	CP	mg/kg	5.4	5.0	6.0	30%	Pass	
Selenium	L25-Au0013148	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Thallium	L25-Au0013148	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	L25-Au0013148	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	L25-Au0013148	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Chromium	L25-Au0013148	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Copper	L25-Au0013148	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Lead	L25-Au0013148	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Mercury	L25-Au0013148	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass	
Nickel	L25-Au0013148	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Zinc	L25-Au0013148	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Net Acid Production Potential (by CRS)				Result 1	Result 2	RPD			
Acid Neutralising Capacity (as CaCO ₃)*	L25-Au0013148	CP	% CaCO ₃	2.9	3.0	5.0	30%	Pass	
Acid Production Potential (by CRS)	L25-Au0013148	CP	kgH ₂ SO ₄ /t	< 0.15	< 0.15	<1	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Au0013148	CP	% S	< 0.005	< 0.005	<1	20%	Pass	
Duplicate									
Net Acid Generation				Result 1	Result 2	RPD			
Net Acid Generation: NAG (initial to pH 4.5)*	L25-Au0013148	CP	kgH ₂ SO ₄ /t	< 0.1	< 0.1	<1	30%	Pass	
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	L25-Au0013148	CP	kgH ₂ SO ₄ /t	< 0.1	< 0.1	<1	30%	Pass	
pH After Oxidation (pH NAG)*	L25-Au0013148	CP	pH Units	7.0	7.0	<1	30%	Pass	
Duplicate									
Net Acid Production Potential (by CRS)				Result 1	Result 2	RPD			
Acid Neutralising Capacity (as CaCO ₃)*	L25-Au0013151	CP	% CaCO ₃	15	14	2.0	30%	Pass	
Acid Production Potential (by CRS)	L25-Au0013151	CP	kgH ₂ SO ₄ /t	3.6	3.7	2.0	30%	Pass	
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Au0013151	CP	% S	0.12	0.12	2.0	20%	Pass	

Duplicate								
Net Acid Generation				Result 1	Result 2	RPD		
Net Acid Generation: NAG (initial to pH 4.5)*	L25-Au0013151	CP	kgH2SO4/t	< 0.1	< 0.1	<1	30%	Pass
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	L25-Au0013151	CP	kgH2SO4/t	< 0.1	< 0.1	<1	30%	Pass
pH After Oxidation (pH NAG)*	L25-Au0013151	CP	pH Units	11	11	2.6	30%	Pass
Duplicate								
Net Acid Production Potential (by CRS)				Result 1	Result 2	RPD		
Acid Neutralising Capacity (as CaCO3)*	L25-Au0013152	CP	% CaCO3	4.3	3.9	9.0	30%	Pass
Acid Production Potential (by CRS)	L25-Au0013152	CP	kgH2SO4/t	2.6	2.3	11	30%	Pass
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Au0013152	CP	% S	0.084	0.076	11	20%	Pass
Duplicate								
Net Acid Generation				Result 1	Result 2	RPD		
Net Acid Generation: NAG (initial to pH 4.5)*	L25-Au0013152	CP	kgH2SO4/t	< 0.1	< 0.1	<1	30%	Pass
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	L25-Au0013152	CP	kgH2SO4/t	< 0.1	< 0.1	<1	30%	Pass
pH After Oxidation (pH NAG)*	L25-Au0013152	CP	pH Units	8.5	8.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH	L25-Au0013156	CP	pH Units	8.2	8.2	<1	30%	Pass
% Moisture	L25-Au0013156	CP	%	23	24	7.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Aqua Regia Digestible Silicon	L25-Au0013158	CP	mg/kg	430	380	13	20%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Aluminium	L25-Au0013158	CP	mg/kg	2100	1900	9.0	30%	Pass
Iron	L25-Au0013158	CP	mg/kg	3800	3500	9.0	30%	Pass
Manganese	L25-Au0013158	CP	mg/kg	39	36	10	30%	Pass
Selenium	L25-Au0013158	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thallium	L25-Au0013158	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-Au0013158	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-Au0013158	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Chromium	L25-Au0013158	CP	mg/kg	5.0	4.4	12	30%	Pass
Copper	L25-Au0013158	CP	mg/kg	2.2	1.9	13	30%	Pass
Lead	L25-Au0013158	CP	mg/kg	1.5	1.4	10	30%	Pass
Mercury	L25-Au0013158	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Nickel	L25-Au0013158	CP	mg/kg	2.3	2.2	8.0	30%	Pass
Zinc	L25-Au0013158	CP	mg/kg	6.1	5.6	9.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Aluminium	L25-Au0013164	CP	mg/kg	500	520	4.0	30%	Pass
Iron	L25-Au0013164	CP	mg/kg	830	870	4.0	30%	Pass
Manganese	L25-Au0013164	CP	mg/kg	93	96	3.0	30%	Pass
Selenium	L25-Au0013164	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thallium	L25-Au0013164	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-Au0013164	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-Au0013164	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Chromium	L25-Au0013164	CP	mg/kg	1.8	1.8	2.0	30%	Pass
Copper	L25-Au0013164	CP	mg/kg	< 1	< 1	<1	30%	Pass

Duplicate								
Metals M8				Result 1	Result 2	RPD		
Lead	L25-Au0013164	CP	mg/kg	< 1	< 1	<1	30%	Pass
Mercury	L25-Au0013164	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Nickel	L25-Au0013164	CP	mg/kg	< 1	< 1	<1	30%	Pass
Zinc	L25-Au0013164	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH	L25-Au0013166	CP	pH Units	8.4	8.4	<1	30%	Pass
% Moisture	L25-Au0013166	CP	%	21	22	3.0	30%	Pass
Duplicate								
Net Acid Production Potential (by CRS)				Result 1	Result 2	RPD		
Acid Neutralising Capacity (as CaCO ₃)*	L25-Au0013169	CP	% CaCO ₃	2.5	2.4	5.0	30%	Pass
Acid Production Potential (by CRS)	L25-Au0013169	CP	kgH ₂ SO ₄ /t	0.20	0.18	13	30%	Pass
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Au0013169	CP	% S	0.007	0.006	13	20%	Pass
Duplicate								
Net Acid Generation				Result 1	Result 2	RPD		
Net Acid Generation: NAG (initial to pH 4.5)*	L25-Au0013169	CP	kgH ₂ SO ₄ /t	< 0.1	< 0.1	<1	30%	Pass
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	L25-Au0013169	CP	kgH ₂ SO ₄ /t	0.2	0.2	<1	30%	Pass
pH After Oxidation (pH NAG)*	L25-Au0013169	CP	pH Units	7.0	6.9	<1	30%	Pass
Duplicate								
Net Acid Production Potential (by CRS)				Result 1	Result 2	RPD		
Acid Neutralising Capacity (as CaCO ₃)*	L25-Au0013171	CP	% CaCO ₃	2.0	2.0	1.0	30%	Pass
Acid Production Potential (by CRS)	L25-Au0013171	CP	kgH ₂ SO ₄ /t	0.18	0.18	3.0	30%	Pass
Chromium Reducible Sulfur (s-SCR) (NLM-2.1)	L25-Au0013171	CP	% S	0.006	0.006	3.0	20%	Pass
Duplicate								
Net Acid Generation				Result 1	Result 2	RPD		
Net Acid Generation: NAG (initial to pH 4.5)*	L25-Au0013171	CP	kgH ₂ SO ₄ /t	< 0.1	< 0.1	<1	30%	Pass
Net Acid Generation: NAG (pH 4.5 - pH 7.0)*	L25-Au0013171	CP	kgH ₂ SO ₄ /t	8.9	9.7	9.0	30%	Pass
pH After Oxidation (pH NAG)*	L25-Au0013171	CP	pH Units	6.5	6.5	1.2	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Aqua Regia Digestible Silicon	L25-Au0013174	CP	mg/kg	320	370	13	20%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Iron	L25-Au0013174	CP	mg/kg	3800	2900	26	30%	Pass
Manganese	L25-Au0013174	CP	mg/kg	25	21	21	30%	Pass
Selenium	L25-Au0013174	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thallium	L25-Au0013174	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-Au0013174	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-Au0013174	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Chromium	L25-Au0013174	CP	mg/kg	4.8	3.5	30	30%	Pass
Copper	L25-Au0013174	CP	mg/kg	2.0	1.5	27	30%	Pass
Lead	L25-Au0013174	CP	mg/kg	< 1	< 1	<1	30%	Pass
Mercury	L25-Au0013174	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Zinc	L25-Au0013174	CP	mg/kg	5.9	< 5	30	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH	L25-Au0013176	CP	pH Units	8.6	8.6	<1	30%	Pass
% Moisture	L25-Au0013176	CP	%	37	37	2.0	30%	Pass

Duplicate				Result 1	Result 2	RPD		
Aqua Regia Digestible Silicon	L25-Au0013178	CP	mg/kg	430	490	12	20%	Pass
% Moisture	L25-Au0015066	NCP	%	< 1	< 1	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Heavy Metals				Result 1	Result 2	RPD		
Aluminium	L25-Au0013178	CP	mg/kg	7700	7800	1.0	30%	Pass
Iron	L25-Au0013178	CP	mg/kg	8400	8600	3.0	30%	Pass
Manganese	L25-Au0013178	CP	mg/kg	130	140	9.0	30%	Pass
Selenium	L25-Au0013178	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thallium	L25-Au0013178	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-Au0013178	CP	mg/kg	8.3	9.2	10	30%	Pass
Cadmium	L25-Au0013178	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Chromium	L25-Au0013178	CP	mg/kg	26	27	4.0	30%	Pass
Copper	L25-Au0013178	CP	mg/kg	4.6	4.9	6.0	30%	Pass
Lead	L25-Au0013178	CP	mg/kg	3.5	3.7	6.0	30%	Pass
Mercury	L25-Au0013178	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Nickel	L25-Au0013178	CP	mg/kg	6.2	6.4	3.0	30%	Pass
Zinc	L25-Au0013178	CP	mg/kg	15	16	6.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
pH	L25-Au0013186	CP	pH Units	8.6	8.6	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
% Moisture	L25-Au0013665	NCP	%	21	22	7.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Heavy Metals				Result 1	Result 2	RPD		
Aluminium	L25-Au0013188	CP	mg/kg	2200	2300	5.0	30%	Pass
Iron	L25-Au0013188	CP	mg/kg	3100	3300	7.0	30%	Pass
Manganese	L25-Au0013188	CP	mg/kg	75	78	4.0	30%	Pass
Selenium	L25-Au0013188	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thallium	L25-Au0013188	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Metals M8				Result 1	Result 2	RPD		
Arsenic	L25-Au0013188	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	L25-Au0013188	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Chromium	L25-Au0013188	CP	mg/kg	6.4	6.6	3.0	30%	Pass
Copper	L25-Au0013188	CP	mg/kg	2.3	2.4	6.0	30%	Pass
Lead	L25-Au0013188	CP	mg/kg	1.9	2.0	5.0	30%	Pass
Mercury	L25-Au0013188	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Zinc	L25-Au0013188	CP	mg/kg	8.6	8.1	5.0	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
Q05	The matrix spike concentration is less than five times the background concentration in the sample - therefore the spike recovery cannot be determined
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
S04	Acid Sulfate Soil Samples have a 24 hour holding time unless frozen or dried within that period

Authorised by:

Sam Becker	Senior Analyst-Inorganic
Sean Sangster	Senior Analyst-Metal
Douglas Todd	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-SPOCAS

Kim Rodgers
General Manager

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request

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

PREPARED



ATTACHMENT D

Tabulated Analytical Results

Laboratory Analytical Results - Soils



						Field ID	A09	A15	BP05 (1)	BP05 (2)	BP05 (3)	BP05 (4)	BP05 (5)	BP12(1)	BP12(2)	BP12(3)	
						Date	20 Jul 2025	20 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	19 Jul 2025	19 Jul 2025	19 Jul 2025
	Unit	EQL	NEPM 2013 Table 1B(5) Generic EIL - Areas of Ecological Significance	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												
Metals																	
Aluminium	mg/kg	20				360	870	7,700	6,900	7,900	6,400	4,100	15,000	10,000	7,700		
Selenium	mg/kg	2			10,000	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2		
Arsenic	mg/kg	2	40	160	3,000	<2	<2	8.3	7.1	8.9	5.9	7.3	5.7	6.9	7.3		
Cadmium	mg/kg	0.1			900	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1		
Chromium (III+VI)	mg/kg	1				<1	1.9	26	21	25	18	13	45	31	22		
Copper	mg/kg	1			240,000	<1	<1	4.6	5.1	4.8	6.2	4.2	14	9.9	4.7		
Iron	mg/kg	20				620	1,500	8,400	7,600	8,200	7,200	6,100	21,000	13,000	8,500		
Lead	mg/kg	1			1,500	<1	<1	3.5	3.2	3.6	3	2.6	8	5.2	3.4		
Manganese	mg/kg	5			60,000	5.4	13	130	130	180	93	150	410	180	120		
Mercury	mg/kg	0.02			730	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02		
Nickel	mg/kg	1			6,000	<1	<1	6.2	6.1	6.9	6.8	4	16	11	7.7		
Silicon	mg/kg	1				250	410	430	370	590	350	470	540	370	440		
Thallium	mg/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Zinc	mg/kg	5			400,000	<5	<5	15	15	16	13	12	37	23	14		

Laboratory Analytical Results - Soils



						BP12(4)	BP12(5)	DCP06	DCP08	DCP11	DCP15	DCP16	DCP21	DCP22	DCP27
						19 Jul 2025	19 Jul 2025	19 Jul 2025	19 Jul 2025	20 Jul 2025	19 Jul 2025	20 Jul 2025	19 Jul 2025	19 Jul 2025	20 Jul 2025
	Unit	EQL	NEPM 2013 Table 1B(5) Generic EIL - Areas of Ecological Significance	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										
Metals															
Aluminium	mg/kg	20				11,000	8,900	1,100	710	1,100	1,000	5,500	2,800	3,200	3,400
Selenium	mg/kg	2			10,000	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic	mg/kg	2	40	160	3,000	7.2	6	<2	<2	<2	<2	2.7	<2	<2	<2
Cadmium	mg/kg	0.1			900	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (III+VI)	mg/kg	1				31	25	2.3	1.5	2.3	2.3	12	5.5	6.5	7.1
Copper	mg/kg	1			240,000	6.7	6.5	<1	<1	<1	<1	4.6	2.8	2.9	2.8
Iron	mg/kg	20				12,000	10,000	2,000	1,200	1,800	1,900	7,800	4,000	4,600	5,200
Lead	mg/kg	1			1,500	4.6	3.8	<1	<1	<1	<1	1.2	<1	<1	<1
Manganese	mg/kg	5			60,000	220	170	16	8.8	13	14	46	29	30	32
Mercury	mg/kg	0.02			730	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel	mg/kg	1			6,000	9.7	8.2	1	<1	1	<1	4.7	2.1	2.7	2.8
Silicon	mg/kg	1				490	500	480	300	420	370	390	290	400	310
Thallium	mg/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zinc	mg/kg	5			400,000	21	18	<5	<5	<5	<5	13	6.2	7	7.2

Laboratory Analytical Results - Soils



						Field ID	E24	E27	LS01	LS02	LV01	W01	W02	W03	W04	W05
						Date	19 Jul 2025	19 Jul 2025	19 Jul 2025	19 Jul 2025	19 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025	16 Jul 2025
	Unit	EQL	NEPM 2013 Table 1B(5) Generic EIL - Areas of Ecological Significance	NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind	NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											
Metals																
Aluminium	mg/kg	20				2,100	750	9,400	3,200	6,800	260	450	690	210	500	
Selenium	mg/kg	2			10,000	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Arsenic	mg/kg	2	40	160	3,000	<2	<2	4.9	<2	5.1	<2	<2	<2	<2	<2	
Cadmium	mg/kg	0.1			900	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Chromium (III+VI)	mg/kg	1				5	3.3	23	7.5	24	1.1	1.6	2.9	<1	1.8	
Copper	mg/kg	1			240,000	2.2	<1	8.7	3.2	8.4	<1	<1	<1	<1	<1	
Iron	mg/kg	20				3,800	1,000	13,000	4,600	8,500	460	740	1,000	340	830	
Lead	mg/kg	1			1,500	1.5	<1	3.7	1	3.6	<1	<1	<1	<1	<1	
Manganese	mg/kg	5			60,000	39	18	280	34	190	80	110	130	62	93	
Mercury	mg/kg	0.02			730	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Nickel	mg/kg	1			6,000	2.3	<1	8.5	2.9	8.5	<1	<1	1.1	<1	<1	
Silicon	mg/kg	1				430	610	690	290	450	410	900	560	300	560	
Thallium	mg/kg	10				<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Zinc	mg/kg	5			400,000	6.1	<5	25	7.2	16	6.1	<5	<5	<5	<5	



ATTACHMENT E

Understanding Your Report

UNDERSTANDING YOUR REPORT

GALT FORM PMP11 Rev4

1. EXPECTATIONS OF THE REPORT

This document has been prepared to clarify what is and is not provided in your report. It is intended to inform you of what your realistic expectations of this report should be and how to manage your risks associated with the conditions on site.

Geotechnical engineering and environmental science are less exact than other engineering and scientific disciplines. We include this information to help you understand where our responsibilities begin and end. You should read and understand this information. Please contact us if you do not understand the report or this explanation. We have extensive experience in a wide variety of projects and we can help you to manage your risk.

2. THIS REPORT RELATES TO PROJECT-SPECIFIC CONDITIONS

This report was developed for a unique set of project-specific conditions to meet the needs of the nominated client. It took into account the following:

- ✦ the project objectives as we understood them and as described in this report;
- ✦ the specific site mentioned in this report; and
- ✦ the current and proposed development at the site.

It should not be used for any purpose other than that indicated in the report. You should not rely on this report if any of the following conditions apply:

- ✦ the report was not written for you;
- ✦ the report was not written for the site specific to your development;
- ✦ the report was not written for your project (including a development at the correct site but other than that listed in the report); or
- ✦ the report was written before significant changes occurred at the site (such as a development or a change in ground conditions).

You should always inform us of changes in the proposed project (including minor changes) and request an assessment of their impact.

Where we are not informed of developments relevant to your report, we cannot be held responsible or liable for problems that may arise as a consequence.

Where design is to be carried out by others using information provided by us, we recommend that we be involved in the design process by being engaged for consultation with other members of the project team. Furthermore, we recommend that we be able to review work produced by other members of the project team that relies on information provided in our report.

3. DATA PROVIDED BY THIRD PARTIES

Where data is provided by third parties, it will be identified as such in our reports. We necessarily rely on the completeness and accuracy of data provided by third parties in order to draw conclusions presented in our reports. We are not responsible for omissions, incomplete or inaccurate data associated with third party data, including where we have been requested to provide advice in relation to field investigation data provided by third parties.

4. SOIL LOGS

Our reports often include logs of intrusive and non-intrusive investigation techniques prepared by Galt. These logs are based on our interpretation of field data and laboratory results. The logs should only be read in conjunction with the report they were issued with and should not be re-drawn for inclusion in other documents not prepared by us.

5. THIRD PARTY RELIANCE

We have prepared this report for use by the client. This report must be regarded as confidential to the client and the client's professional advisors. We do not accept any responsibility for contents of this document from any party other than the nominated client. We take no responsibility for any damages suffered by a third party because of any decisions or actions they may make based on this report. Any reliance or decisions made by a third party based on this report are the responsibility of the third party and not of us.

6. CHANGE IN SUBSURFACE CONDITIONS

The recommendations in this report are based on the ground conditions that existed at the time when the study was undertaken. Changes in ground conditions can occur in numerous ways including anthropogenic events (such as construction or contaminating activities on or adjacent to the site) or natural events (such as floods, groundwater fluctuations or earthquakes). We should be consulted prior to use of this report so that we can comment on its reliability. It is important to note that where ground conditions have changed, additional sampling, testing or analysis may be required to fully assess the changed conditions.

7. SUBSURFACE CONDITIONS DURING CONSTRUCTION

Practical constraints mean that we cannot know every minute detail about the subsurface conditions at a particular site. We use professional judgement to form an opinion about the subsurface conditions at the site. Some variation to our evaluated conditions is likely and significant variation is possible. Accordingly, our report should not be considered as final as it is developed from professional judgement and opinion.

The most effective means of dealing with unanticipated ground conditions is to engage us for construction support. We can only finalise our recommendations by observing actual subsurface conditions encountered during construction. We cannot accept liability for a report's recommendations if we cannot observe construction.

8. ENVIRONMENTAL AND GEOTECHNICAL ISSUES

Unless specifically mentioned otherwise in our report, environmental considerations are not addressed in geotechnical reports. Similarly, geotechnical issues are not addressed in environmental reports. The investigation techniques used for geotechnical investigations can differ from those used for environmental investigations. It is the client's responsibility to satisfy themselves that geotechnical and environmental considerations have been taken into account for the site.

Geotechnical advice presented in a Galt Environmental report has been provided by Galt Geotechnics under a sub-contract agreement. Similarly, environmental advice presented in a Galt Geotechnics report has been provided by Galt Environmental under a sub-contract agreement.

Unless specifically noted otherwise, no parties shall draw any inferences about the applicability of the Western Australian state government landfill levy from the contents of this document.

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