

Appendix E: Groundwater Monitoring Well Borehole Reports

METHOD OF SOIL DESCRIPTION BOREHOLE AND TEST PIT REPORTS



GRAPHIC LOG & SOIL CLASSIFICATION SYMBOLS

Graphic	USCS	Soil Name
		FILL (various types)
		COBBLES / BOULDERS
	GP	GRAVEL (poorly graded)
	GW	GRAVEL (well graded)
	GC	Clayey GRAVEL
	GM	Silty GRAVEL
	SP	SAND (poorly graded)
	SW	SAND (well graded)
	SC	Clayey SAND

Graphic	USCS	Soil Name
	SM	Silty SAND
	ML	SILT (low liquid limit)
	MH	SILT (high liquid limit)
	CL	CLAY (low plasticity)
	CI	CLAY (medium plasticity)
	CH	CLAY (high plasticity)
	OL	Organic SILT (low liquid limit)
	OH	Organic SILT (high liquid limit)
	Pt	PEAT

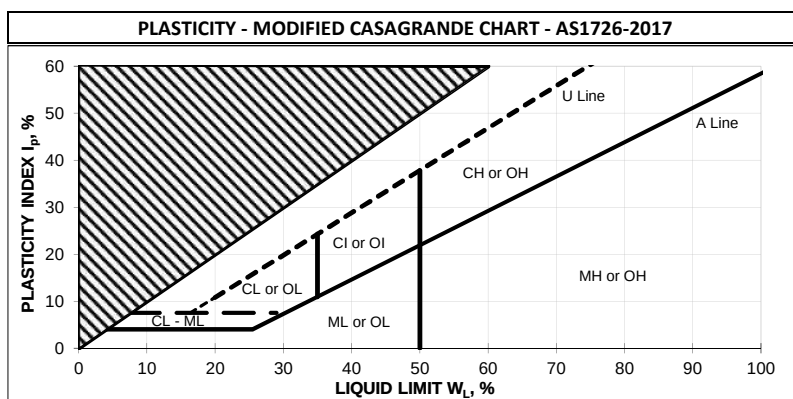
NOTE: Dual classification given for soils with a fines content between 5% and 12%.

SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY

Soil descriptions are based on AS1726-2017. Material properties are assessed in the field by visual/tactile methods in combination with field and laboratory testing techniques (where used).

NOTE: AS 1726-2017 defines a fine grained soil where the total dry mass of fine fractions (<0.075 mm particle size) exceeds 35%.

PARTICLE SIZE		
Soil Name	Particle Size (mm)	
BOULDERS	>200	
COBBLES	63 to 200	
GRAVEL	Coarse	19 to 63
	Medium	6.7 to 19
	Fine	2.3 to 6.7
SAND	Coarse	0.6 to 2.36
	Medium	0.21 to 0.6
	Fine	0.075 to 0.21
FINES	SILT	0.002 to 0.075
	CLAY	<0.002



RESISTANCE TO EXCAVATION		
Symbol	Term	Description
VE	Very easy	All resistances are relative to the selected method of excavation
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION	
Symbol	Term
D	Dry
M	Moist
W	Wet

CEMENTATION	
Cementation	Description
Weakly cemented	Soil may be easily disaggregated by hand in air or water
Moderately cemented	Effort is required to disaggregate the soil by hand in air or water

CONSISTENCY		
Symbol	Term	Undrained Shear Strength (kPa)
VS	Very Soft	0 to 12
S	Soft	12 to 25
F	Firm	25 to 50
St	Stiff	50 to 100
VSt	Very Stiff	100 to 200
H	Hard	>200

ORGANIC SOILS	
Material	Organic Content % of dry mass
Inorganic soil	<2%
Organic soil	2% to 25%
Peat	>25%

DENSITY		
Symbol	Term	Density Index (%)
VL	Very Loose	<15
L	Loose	15 to 35
MD	Medium Dense	35 to 65
D	Dense	65 to 85
VD	Very Dense	>85

EXPLANATORY NOTES TO BE READ WITH BOREHOLE AND TEST PIT REPORTS



METHOD OF DRILLING OR EXCAVATION

AC	Air Core	E	Excavator	PQ3	PQ3 Core Barrel
AD/T	Auger Drilling with TC-Bit	EH	Excavator with Hammer	PT	Push Tube
AD/V	Auger Drilling with V-Bit	HA	Hand Auger	R	Ripper
AT	Air Track	HMLC	HMLC Core Barrel	RR	Rock Roller
B	Bulldozer Blade	HQ3	HQ3 Core Barrel	SON	Sonic Rig
BH	Backhoe Bucket	N	Natural Exposure	SPT	Driven SPT
CT	Cable Tool	NMLC	NMLC Core Barrel	WB	Washbore
DT	Diatube	PP	Push Probe	X	Existing Excavation

SUPPORT

T	Timbering
---	-----------

PENETRATION EFFORT (RELATIVE TO THE EQUIPMENT USED)

VE	Very Easy	E	Easy	F	Firm
H	Hard	VH	Very Hard		

WATER

►	Water Inflow	▼	Water Level
◄	Water Loss (complete)		
◄◁	Water Loss (partial)		

SAMPLING AND TESTING

B	Bulk Disturbed Sample	P	Piston Sample
BLK	Block Sample	PBT	Plate Bearing Test
C	Core Sample	U	Undisturbed Push-in Sample
CBR	CBR Mould Sample		U50: 50 mm diameter
D	Small Disturbed Sample	SPT	Standard Penetration Test
ES	Environmental Soil Sample		Example: 3, 4, 5 N=9
EW	Environmental Water Sample		3,4,5: Blows per 150 mm
G	Gas Sample		N=9: Blows per 300 mm after
HP	Hand Penetrometer		150 mm seating interval
LB	Large Bulk Disturbed Sample	VS	Vane Shear; P = Peak
M	Mazier Type Sample		R = Remoulded (kPa)
MC	Moisture Content Sample	W	Water Sample

ACID SULFATE SOILS

NASS	Non acid sulfate soils
PASS	Potential acid sulfate soils
AASS	Actual acid sulfate soils
pH _F	pH of soil:water
pH _{FOX}	pH of soil:water following reaction with hydrogen sulfide
Net Acidity	Chromium Reducible Sulfur + Titratable actual acidity

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Drilling					Sampling	Field Material Description				
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL CLASS	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	STRUCTURE AND ADDITIONAL OBSERVATIONS
HA			0				SP	Gravelly SAND: fine to medium grained, sub-angular to sub-rounded, pale grey, fine to coarse grained gravel		
			1							
			2					SAND: fine to medium grained, sub-angular to sub-rounded, yellow/brown, trace fine to medium grained gravel		
			3							
PT			4				SP		D	
			5							
			6							
			7					Becomes coarse grained, pale grey		

Sketch & Other Observations



Comments:

See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Drilling					Sampling		Field Material Description				
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL CLASS	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY
PT			7								
			8								
			9								
			10								
			11								
			12								
			13								
			14								

Sketch & Other Observations



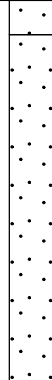
Comments:

See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Drilling					Sampling	Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	SOIL CLASS	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
PT	HA		0				SP	Gravelly SAND: fine to medium grained, sub-angular to rounded, pale brown/grey, fine to coarse grained, rounded to sub-rounded gravel, trace organics/roots SAND: fine to medium grained, sub-angular to sub-rounded, pale grey	D			
			1			SP	As above with COFFEE ROCK nodules, weakly cemented, dark brown					
			2				SP	SAND: fine to coarse grained, sub-angular to sub-rounded, pale brown	M	W		
			3									
			4									
			5									
			6					Hole terminated at 6.00 m Target depth Groundwater encountered at 3.5 m				

Sketch & Other Observations



Comments:

See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Drilling					Sampling	Field Material Description															
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	SOIL CLASS	SOIL/ROCK MATERIAL DESCRIPTION		MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS								
HA			0					SP	SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fine to medium grained gravel, trace organics		D										
			SP					SAND: fine to medium grained, sub-angular to sub-rounded, pale grey													
2			COFFEE ROCK layer, weak to medium cemented, dark brown					M													
3			SAND: fine to coarse grained, sub-angular to sub-rounded, pale brown, weakly cemented																		
4			SP																		
5																					
6																					
PT																					
				</																	

Sketch & Other Observations



Comments:

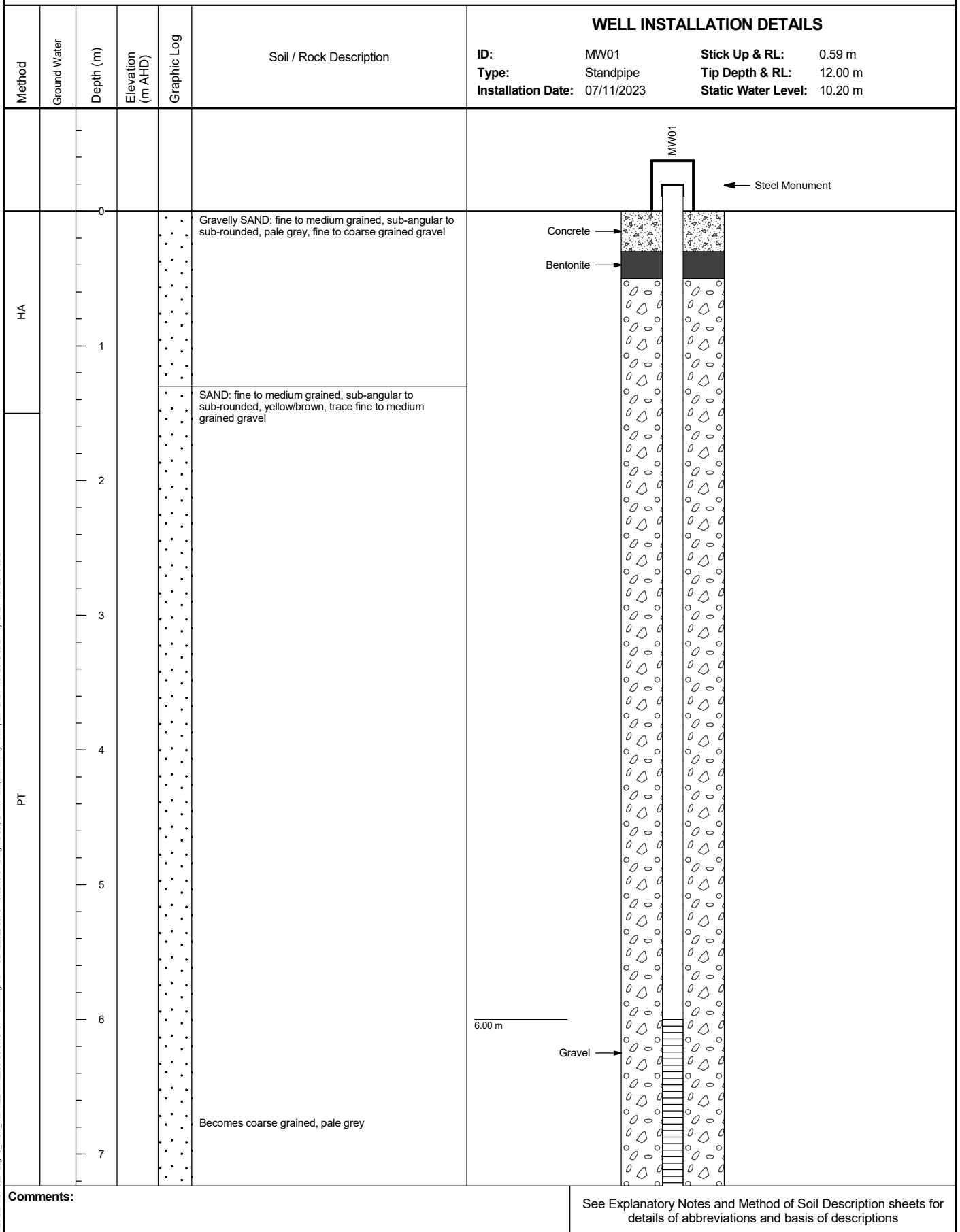
See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions

Appendix F: Groundwater Monitoring Well Construction Reports

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

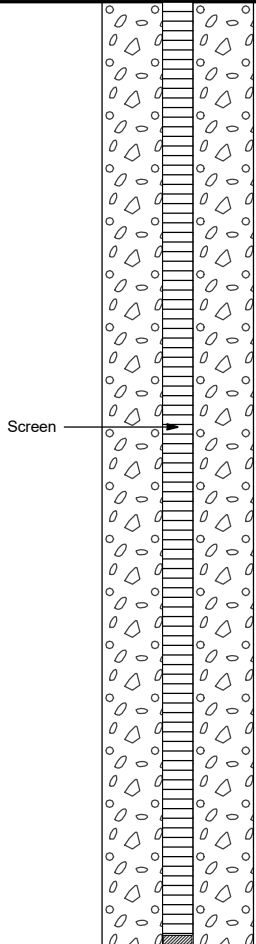
Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP



Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

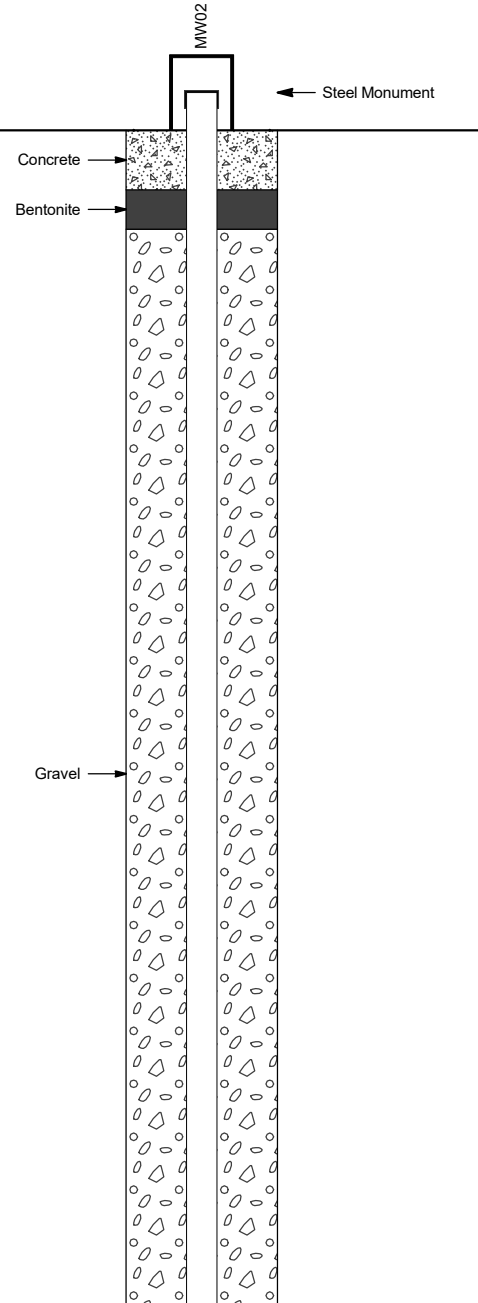
Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Method	Ground Water	Depth (m)	Elevation (m AHD)	Graphic Log	Soil / Rock Description	WELL INSTALLATION DETAILS	
						ID: MW01 Type: Standpipe Installation Date: 07/11/2023	Stick Up & RL: 0.59 m Tip Depth & RL: 12.00 m Static Water Level: 10.20 m
PT		8					
		9					
		10					
		11					
		12					12.00 m
					Hole terminated at 12.00 m Target depth Groundwater encountered at 10.2 m		
		13					
		14					
		15					
Comments:						See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions	

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

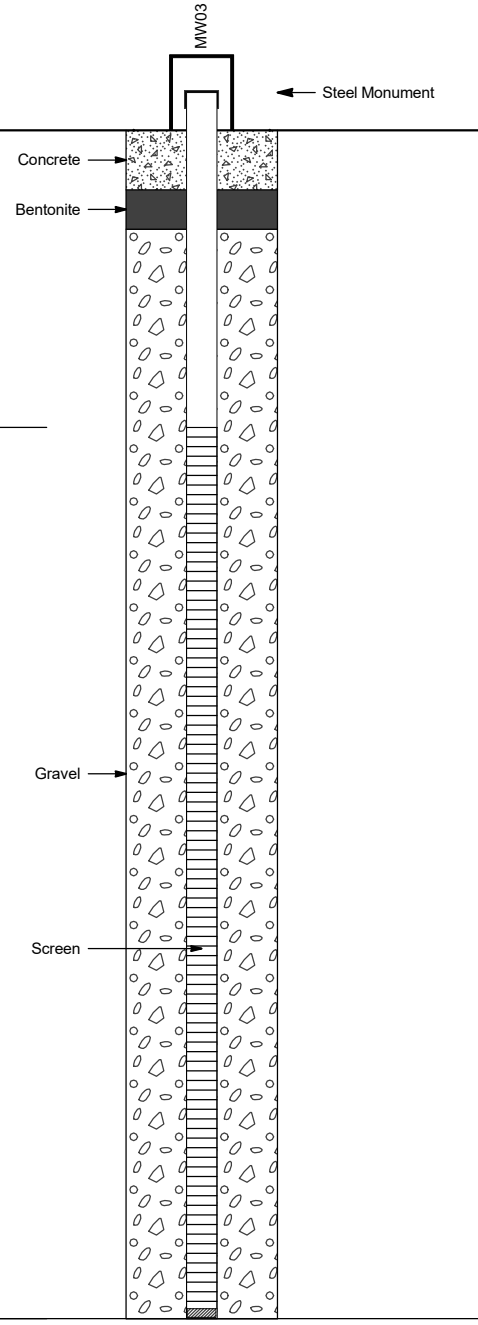
Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°
Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

					WELL INSTALLATION DETAILS	
Method	Ground Water	Depth (m)	Elevation (m AHD)	Graphic Log	Soil / Rock Description	ID: MW02 Type: Standpipe Installation Date: 07/11/2023 Stick Up & RL: 0.61 m Tip Depth & RL: 6.00 m Static Water Level: 3.50 m
		0				
HA		1		- Gravelly SAND: fine to medium grained, sub-angular to rounded, pale brown/grey, fine to coarse grained, rounded to sub-rounded gravel, trace organics/roots - SAND: fine to medium grained, sub-angular to sub-rounded, pale grey		
		2				
		3			As above with COFFEE ROCK nodules, weakly cemented, dark brown	
PT		4			SAND: fine to coarse grained, sub-angular to sub-rounded, pale brown	
		5				
		6			Hole terminated at 6.00 m Target depth Groundwater encountered at 3.5 m	
		7				
Comments:						See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions

Job Number: WAE230106-01
Client: Qube Property
Project: Due Dilligence Assessment
Location: 343-361 Wattleup Road, Wattleup

Contractor: Galt
Drill Rig: AMS Powerprobe
Inclination: -90°

Date: 07/11/2023
Logged: SC
Checked Date: 06/12/2023
Checked By: BP

Method	Ground Water	Depth (m)	Elevation (m AHD)	Graphic Log	Soil / Rock Description	WELL INSTALLATION DETAILS	
						ID: MW03 Type: Standpipe Installation Date: 07/11/2023	Stick Up & RL: 0.60 m Tip Depth & RL: 6.00 m Static Water Level: 3.40 m
		0					
HA		1			SAND: fine to medium grained, sub-angular to sub-rounded, dark grey, trace fine to medium grained gravel, trace organics		
		2			SAND: fine to medium grained, sub-angular to sub-rounded, pale grey		
		3			COFFEE ROCK layer, weak to medium cemented, dark brown		
PT		4			SAND: fine to coarse grained, sub-angular to sub-rounded, pale brown, weakly cemented		
		5				6.00 m	
		6			Hole terminated at 6.00 m Target depth Groundwater encountered at 3.4 m		
		7					
Comments:						See Explanatory Notes and Method of Soil Description sheets for details of abbreviations and basis of descriptions	

Appendix G: Calibration Certificate

CERTIFICATE OF CALIBRATION

Instrument Description: Water Quality Meter Multi-Parameter **Calibration Date:** 15/11/23
Model Number: YSI Professional Plus Quatro – 1m **Calibrated by:** TG
Serial Number: 11K100514

Item	Test	Pass	Comments
Battery	Condition	✓	Voltage reading above 5.8V
	Auto Power off	✓	Automatically turns off after 10mins if not used
Keypad	Operational	✓	All keys operate adequately
Unit and Display	Screen	✓	Minor scratches, numbers clear and legible
	Seals and O rings	✓	Seals in good condition (YSI unit and flowcell)
Connections	Condition	✓	Good condition
Cable	Condition	✓	No signs of wear or damage
Sensors	Temperature	✓	°C
	pH	✓	pH
	Redox or ORP	✓	mV
	Electrical Conductivity	✓	µs/cm
	Dissolved Oxygen	✓	ppm
Software	Version		Up to date

This is to certify that the above instrument has been calibrated to the following specifications:

Parameter	Standards	Reference Number	Calibration Points	Instrument Reading
Temperature			Temperature (°C)	21.4°C
pH	pH 7.00	3566	pH 7.00	7.0
pH	pH 4.00	3433	pH 4.00	4.0
Conductivity	1413 µs/cm at 25°C	2323	1413 µs/cm	1381 @ 21.4°C
ORP	Zobell A and Zobell B	23210	240mV at 25°C	213 mV
100% Dissolved Oxygen	100% air saturation	Air	Dissolved Oxygen 100%	100%

Appendix H: Chain of Custody Documentation



CHAIN OF CUSTODY RECORD

Enviro | Environment Testing | ABN 50 005 085 521



Sydney Laboratory

Unit F3 Bld F 16 Hars Road Lane Cove West NSW 2055
02 9500 6400 EnviroSampleNSW@enviroins.com



Brisbane Laboratory

Unit 1 21 Smithwood Place Murrumbidgee QLD 4172
07 3002 4800 EnviroSampleQLD@enviroins.com



Perth Laboratory

Unit 2 51 Leach Highway Mandurah WA 6105
08 9251 9900 EnviroSampleWA@enviroins.com



Melbourne Laboratory

5 Monastery Road Dandenong South VIC 3175
03 8564 3000 EnviroSampleVIC@enviroins.com

Company		Galt Environment P/L		Project No		WAE230106		Project Manager		Sarah Carter		Sampler(s)		Sarah Carter					
Address		50 Edward Street, Osborne Park		Project Name		Wattleup		EDD Format		esdat		Facility Code		Handed over by		Sarah Carter			
Contact Name		Brad Palmer		Analyses Where noted in analysis please specify "Type" of "Analysis" - All results must be used in a valid 30 day period		B19A		M8 (inc leachate)		OC pesticides		OP pesticides		Carbamate pesticides		Email for Invoice		accounts@galtenv.com.au	
Phone No		(08) 6272 0200														Email for Results		lab.results@galtenv.com.au; galtenv@esdat.com	
Special Directions		sarah - 0423 958 546																	
Purchase Order		WAE230106																	
Quote ID No		180801GAL																	
No		Client Sample ID		Sampled Date/Time		Matrix													
				dd/mm/yyyy hh:mm		Solid (S) Water (W)													
1		TP01/0.0		1/11/23		Soil		X		X		X							
2		TP03/0.0		1/11/23		Soil		X		X		X		X		X			
3		TP04/0.0		1/11/23		Soil		X		X		X							
4		TP08/0.0		1/11/23		Soil		X		X		X							
5		TP09/0.0		1/11/23		Soil		X		X		X							
6		TP11/0.0		1/11/23		Soil		X		X		X		X		X			
7		TP14/0.0		1/11/23		Soil		X		X		X							
8		TP15/0.0		1/11/23		Soil		X		X		X							
9		TP19/0.0		1/11/23		Soil		X		X		X		X		X			
10		TP20/0.0		1/11/23		Soil		X		X		X							
11		QC01		1/11/23		Soil		X		X		X		X		X			
12		QC02		1/11/23		Water		X		X		X		X		X			
13		QC03		1/11/23		Water		X		X		X		X		X			
14		TP21/0.0		2/11/23		Soil		X		X		X		X		X			
15		TP23/0.0		2/11/23		Soil		X		X		X							
16		TP25/0.0		2/11/23		Soil		X		X		X							

Containers

Change turnaround cycle & size if necessary

500mL Plastic

250mL Plastic

125mL Plastic

200mL Amber Glass

40mL VOA vial

500mL PFAS Bottle

Jar (Glass or HDPE)

Other (Asbestos AS1924, WA Guidelines)

Required Turnaround Time (TAT)

Default will be 5 days (not noted)

*Exchange will apply

☐ Overnight (reporting by Sam)*

☐ Same day* ☐ 1 day*

☐ 2 days* ☐ 3 days*

☒ 5 days (Standard)

☐ Other()

Sample Comments

/ Dangerous Goods Hazard Warning



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 005 521



Sydney Laboratory
Unit F3 Bld F 16 Mac's Road Lane Cove West NSW 2066
02 9900 0400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1 21 Southwood Place Murarie 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 Montarey Road Sandringham VIC 3175
03 9564 5000 EnviroSampleVIC@eurofins.com

Company		Galt Environment P/L		Project No		WAE230106		Project Manager				Sampler(s)							
Address		50 Edward Street, Osborne Park		Project Name		Wattleup		EDD Format Esdat, EsdatS etc		Esdat		Facility Code		Handed over by					
Contact Name		Brad Palmer		Analyses Where notes are required, use monthly 'Type' or 'Time' of SUTS codes must be used to avoid SUTS pricing		B19A M8 OC Pesticides OP Pesticides Carbamate Pesticides								Email for Invoice		accounts@galtenv.com.au			
Phone No		(08) 6272 0200												Email for Results		lab.results@galtenv.com.au; galtenv@estdat.com.au			
Special Directions		Sarah - 0423 958 546																	
Purchase Order		WAE230106																	
Quote ID No		180801GAL																	
No		Client Sample ID		Sampled Date/Time dd/mm/yyyy hh:mm		Matrix Solid (S) Water (W)													
1		MW01		15/11/23		Water		X		X		X		X		X			
2		MW02		15/11/23		Water		X		X		X		X		X			
3		MW03		15/11/23		Water		X		X		X		X		X			
4		QC19		15/11/23		Water		X		X		X		X		X			
5		QC20		15/11/23		Water		X		X		X		X		X			
6		QC21		15/11/23		Water		X		X		X		X		X			
7																			
8																			
9																			
10																			
		Add Rows				Total Counts		6		6		6		6		6			
Method of Shipment		☒ Courier (#) ☐ Hand Delivered ☐ Postal		Name		Signature		Date		17/11/2023		Time		12:42:00					
Laboratory Use Only		Received By		SYD BNE MEL PER ADL NTL DRW		Signature		Date		17/11/23		Time		12:34		Temperature		23.8	
		Received By		SYD BNE MEL PER ADL NTL DRW		Signature		Date				Time				Report No		1048303	

**ENVIROLAB GROUP**

National phone number 1300 424 344

Sydney Lab - Envirolab Services
12 Ashley St, Chatswood, NSW 2067

① 02 9910 6200 | ✉ sydney@envirolab.com.au

Perth Lab - MPL Laboratories

16-18 Hayden Crt, Myaree, WA 6154

08 9317 2505 | lab@mpl.com.au

Melbourne Lab - Envirolab Services

25 Research Drive, Croydon South, VIC 3136

03 9763 2500 | melbourne@envirolab.com.au

Adelaide Office - Envirolab Services

7a The Parade, Norwood, SA 5067

08 7087 6800 | adelaide@envirolab.com.au

Brisbane Office - Envirolab Services

Brisbane Office - EnviroLab Services
20a, 10-20 Depot St, Banyo, QLD 4014

07 3266 9532 | brisbane@envirolab.com.au

Darwin Office - Envirolab Services

Unit 20/119 Reichardt Road, Winnellie, NT 0820

08 8967 1201 | darwin@envirolab.com.au

[Copyright and Confidential]

Company:			Galt Environmental			Client Project Name/Number/Site etc (ie report title):			Wattleup - WAE230106		
Contact Person:			Sarah Carter			PO No. (if applicable):					
Project Mgr:			Sarah Carter			Envirolab Quote No. :					
Sampler:			Sarah Carter			Date results required:					
Address:						Or choose:			☒ Standard ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day		
Phone:						Mob:			0423 958 546		
Email Results to:			lab.results@galtenv.com.au galtenv@esdat.com.au			Additional report format:			☒ Esdat ☐ Equis		
Email Invoice to:			accounts@galtgeo.com.au			Lab Comments:			sld 8metals, DI water leachate ↑ instructions rec'd 9/11/23, 15:10		

[illegible]

1

Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis

Relinquished by (Company):		Galt ENV	Received by (Company): <i>mPL</i>		Lab Use Only	
Print Name:		Sarah Carter	Print Name: <i>Gm</i>		Job number: <i>9EK0153</i>	Cooling: Ice / Ice pack / None
Date & Time:		9/11/2023 0:00	Date & Time: <i>9/11/23 15:10</i>		Temperature: <i>18</i>	Security seal: Intact / Broken / None
Signature:		SCarter	Signature: <i>[Signature]</i>		TAT Req - SAME day / 1 / 2 / 3 / 4 / <i>STD</i>	

samples rec'd 13.50



National phone number 1300 424 344

Darwin Office - Envirolab Services
Unit 20/119 Reichardt Road, Winnellie, NT 0820
☎ 08 8967 1201 | ✉ darwin@envirolab.com.au

[illegible]

Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis

Page 1 of 1

Appendix I: Laboratory Certificates of Analysis

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



NATA Accredited
Accreditation Number 2377
Site Number 2370

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

Attention: - ALL SRA/Results

Report 1043004-S
Project name WATTLEUP
Project ID WAE230106
Received Date Nov 09, 2023

Client Sample ID			TP01/0.0	TP03/0.0	TP04/0.0	TP08/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024721	L23- No0024722	L23- No0024723	L23- No0024724
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	117	-	60	84
Tetrachloro-m-xylene (surr.)	1	%	88	-	113	129
NOx-N	1	mg/kg	3.6	2.3	2.6	1.2
Total Kjeldahl Nitrogen	10	mg/kg	460	280	300	160
Total Nitrogen	10	mg/kg	460	280	300	160
Phosphorus	1	mg/kg	280	400	280	400

Client Sample ID			TP01/0.0	TP03/0.0	TP04/0.0	TP08/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024721	L23- No0024722	L23- No0024723	L23- No0024724
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
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	2.4	2.3	1.2	1.6
Copper	1	mg/kg	6.2	3.5	4.0	4.5
Lead	1	mg/kg	1.6	1.4	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	7.2	12	10	13
Sample Properties						
% Moisture	1	%	< 1	< 1	< 1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	-	< 0.01	-	-
alpha-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
beta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
delta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
Bifenthrin	0.2	mg/kg	-	< 0.2	-	-
Bromophos Ethyl	0.05	mg/kg	-	< 0.05	-	-
Chlordane	0.01	mg/kg	-	< 0.01	-	-
Chlorpyrifos	0.02	mg/kg	-	< 0.02	-	-
Dieldrin	0.01	mg/kg	-	< 0.01	-	-
p,p-DDD	0.01	mg/kg	-	< 0.01	-	-
p,p-DDE	0.01	mg/kg	-	< 0.01	-	-
p,p-DDT	0.01	mg/kg	-	< 0.01	-	-
o,p-DDT	0.01	mg/kg	-	< 0.01	-	-
Endosulfan I	0.01	mg/kg	-	< 0.01	-	-
Endosulfan II	0.01	mg/kg	-	< 0.01	-	-
Endosulfan Sulfate	0.01	mg/kg	-	< 0.01	-	-
Endrin	0.01	mg/kg	-	< 0.01	-	-
Heptachlor	0.01	mg/kg	-	< 0.01	-	-
Heptachlor Epoxide	0.01	mg/kg	-	< 0.01	-	-
Hexachlorobenzene (HCB)	0.01	mg/kg	-	< 0.01	-	-
Lindane	0.01	mg/kg	-	< 0.01	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Oxychlordane	0.01	mg/kg	-	< 0.01	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.05	mg/kg	-	< 0.05	-	-
Fenitrothion	0.1	mg/kg	-	< 0.1	-	-
Malathion	0.1	mg/kg	-	< 0.1	-	-
Trifluralin	0.2	mg/kg	-	< 0.2	-	-
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfoxide	0.004	mg/kg	-	< 0.004	-	-
Carbendazim	0.04	mg/kg	-	< 0.04	-	-
Oxamyl	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfone	0.02	mg/kg	-	< 0.02	-	-
Methomyl	0.04	mg/kg	-	< 0.04	-	-
Fenuron/Fenuron TCA	0.005	mg/kg	-	< 0.005	-	-
Thidiazuron	0.04	mg/kg	-	< 0.04	-	-
Aldicarb	0.004	mg/kg	-	< 0.004	-	-

Client Sample ID			TP01/0.0	TP03/0.0	TP04/0.0	TP08/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024721	L23- No0024722	L23- No0024723	L23- No0024724
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Carbamates in Soil						
Bromacil	0.04	mg/kg	-	< 0.04	-	-
Mexacarbate	0.02	mg/kg	-	< 0.02	-	-
Monuron/Monuron TCA	0.04	mg/kg	-	< 0.04	-	-
Propoxur	0.004	mg/kg	-	< 0.004	-	-
Carbofuran	0.04	mg/kg	-	< 0.04	-	-
Fluometuron	0.02	mg/kg	-	< 0.02	-	-
Carbaryl	0.05	mg/kg	-	< 0.05	-	-
Diuron	0.04	mg/kg	-	< 0.04	-	-
Propachlor	0.02	mg/kg	-	< 0.02	-	-
Siduron	0.02	mg/kg	-	< 0.02	-	-
Methiocarb	0.04	mg/kg	-	< 0.04	-	-
Linuron	0.04	mg/kg	-	< 0.04	-	-
Neburon	0.04	mg/kg	-	< 0.04	-	-

Client Sample ID			TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024725	L23- No0024726	L23- No0024727	L23- No0024728
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
β-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
δ-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
γ-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	60	-	100	66
Tetrachloro-m-xylene (surr.)	1	%	77	-	105	99

Client Sample ID			TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024725	L23- No0024726	L23- No0024727	L23- No0024728
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
NOx-N	1	mg/kg	1.9	1.5	2.2	2.4
Total Kjeldahl Nitrogen	10	mg/kg	230	180	310	200
Total Nitrogen	10	mg/kg	230	180	310	200
Phosphorus	1	mg/kg	570	400	350	280
Heavy Metals						
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	2.2	2.1	3.2	2.8
Copper	1	mg/kg	7.3	6.2	8.9	2.9
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
Zinc	5	mg/kg	16	9.9	10	5.1
Sample Properties						
% Moisture	1	%	< 1	< 1	< 1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	-	< 0.01	-	-
alpha-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
beta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
delta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
Bifenthrin	0.2	mg/kg	-	< 0.2	-	-
Bromophos Ethyl	0.05	mg/kg	-	< 0.05	-	-
Chlordane	0.01	mg/kg	-	< 0.01	-	-
Chlorpyrifos	0.02	mg/kg	-	< 0.02	-	-
Dieldrin	0.01	mg/kg	-	< 0.01	-	-
p,p-DDD	0.01	mg/kg	-	< 0.01	-	-
p,p-DDE	0.01	mg/kg	-	< 0.01	-	-
p,p-DDT	0.01	mg/kg	-	< 0.01	-	-
o,p-DDT	0.01	mg/kg	-	< 0.01	-	-
Endosulfan I	0.01	mg/kg	-	< 0.01	-	-
Endosulfan II	0.01	mg/kg	-	< 0.01	-	-
Endosulfan Sulfate	0.01	mg/kg	-	< 0.01	-	-
Endrin	0.01	mg/kg	-	< 0.01	-	-
Heptachlor	0.01	mg/kg	-	< 0.01	-	-
Heptachlor Epoxide	0.01	mg/kg	-	< 0.01	-	-
Hexachlorobenzene (HCB)	0.01	mg/kg	-	< 0.01	-	-
Lindane	0.01	mg/kg	-	< 0.01	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Oxychlordane	0.01	mg/kg	-	< 0.01	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.05	mg/kg	-	< 0.05	-	-
Fenitrothion	0.1	mg/kg	-	< 0.1	-	-
Malathion	0.1	mg/kg	-	< 0.1	-	-
Trifluralin	0.2	mg/kg	-	< 0.2	-	-

Client Sample ID			TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024725	L23- No0024726	L23- No0024727	L23- No0024728
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfoxide	0.004	mg/kg	-	< 0.004	-	-
Carbendazim	0.04	mg/kg	-	< 0.04	-	-
Oxamyl	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfone	0.02	mg/kg	-	< 0.02	-	-
Methomyl	0.04	mg/kg	-	< 0.04	-	-
Fenuron/Fenuron TCA	0.005	mg/kg	-	< 0.005	-	-
Thidiazuron	0.04	mg/kg	-	< 0.04	-	-
Aldicarb	0.004	mg/kg	-	< 0.004	-	-
Bromacil	0.04	mg/kg	-	< 0.04	-	-
Mexacarbate	0.02	mg/kg	-	< 0.02	-	-
Monuron/Monuron TCA	0.04	mg/kg	-	< 0.04	-	-
Propoxur	0.004	mg/kg	-	< 0.004	-	-
Carbofuran	0.04	mg/kg	-	< 0.04	-	-
Fluometuron	0.02	mg/kg	-	< 0.02	-	-
Carbaryl	0.05	mg/kg	-	< 0.05	-	-
Diuron	0.04	mg/kg	-	< 0.04	-	-
Propachlor	0.02	mg/kg	-	< 0.02	-	-
Siduron	0.02	mg/kg	-	< 0.02	-	-
Methiocarb	0.04	mg/kg	-	< 0.04	-	-
Linuron	0.04	mg/kg	-	< 0.04	-	-
Neburon	0.04	mg/kg	-	< 0.04	-	-

Client Sample ID			TP19/0.0	TP20/0.0	QC03	TP21/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024729	L23- No0024730	L23- No0024733	L23- No0024734
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP19/0.0	TP20/0.0	QC03	TP21/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024729	L23- No0024730	L23- No0024733	L23- No0024734
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorodate (surr.)	1	%	-	100	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	99	-	-
NOx-N	1	mg/kg	1.5	2.9	< 1	2.1
Total Kjeldahl Nitrogen	10	mg/kg	150	200	170	390
Total Nitrogen	10	mg/kg	150	200	170	390
Phosphorus	1	mg/kg	170	120	160	64
Heavy Metals						
Arsenic	2	mg/kg	3.4	3.4	3.6	2.7
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	8.3	10	8.1	6.6
Copper	1	mg/kg	3.4	2.0	4.4	< 1
Lead	1	mg/kg	1.0	1.1	1.7	1.8
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	1.2	1.1	1.1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
alpha-BHC (HCH)	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
beta-BHC (HCH)	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
delta-BHC (HCH)	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Bifenthrin	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Bromophos Ethyl	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chlordane	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Chlorpyrifos	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Dieldrin	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
p,p-DDD	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
p,p-DDE	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
p,p-DDT	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
o,p-DDT	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Endosulfan I	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Endosulfan II	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Endosulfan Sulfate	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Endrin	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Heptachlor	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Heptachlor Epoxide	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Hexachlorobenzene (HCB)	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Lindane	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2

Client Sample ID			TP19/0.0	TP20/0.0	QC03	TP21/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024729	L23- No0024730	L23- No0024733	L23- No0024734
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Oxychlorane	0.01	mg/kg	< 0.01	-	< 0.01	< 0.01
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Ethion	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Fenitrothion	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Malathion	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Trifluralin	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Carbamates in Soil						
Aminocarb	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Aldicarb Sulfoxide	0.004	mg/kg	< 0.004	-	< 0.004	< 0.004
Carbendazim	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Oxamyl	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Aldicarb Sulfone	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Methomyl	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Fenuron/Fenuron TCA	0.005	mg/kg	< 0.005	-	< 0.005	< 0.005
Thidiazuron	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Aldicarb	0.004	mg/kg	< 0.004	-	< 0.004	< 0.004
Bromacil	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Mexacarbate	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Monuron/Monuron TCA	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Propoxur	0.004	mg/kg	< 0.004	-	< 0.004	< 0.004
Carbofuran	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Fluometuron	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Carbaryl	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Diuron	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Propachlor	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Siduron	0.02	mg/kg	< 0.02	-	< 0.02	< 0.02
Methiocarb	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Linuron	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04
Neburon	0.04	mg/kg	< 0.04	-	< 0.04	< 0.04

Client Sample ID			TP23/0.0	TP25/0.0	TP26/0.0	TP29/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024735	L23- No0024736	L23- No0024737	L23- No0024738
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			TP23/0.0	TP25/0.0	TP26/0.0	TP29/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024735	L23- No0024736	L23- No0024737	L23- No0024738
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloredate (surr.)	1	%	87	76	-	78
Tetrachloro-m-xylene (surr.)	1	%	116	87	-	133
NOx-N	1	mg/kg	< 1	1.2	2.1	1.6
Total Kjeldahl Nitrogen	10	mg/kg	440	410	250	350
Total Nitrogen	10	mg/kg	440	410	250	350
Phosphorus	1	mg/kg	51	44	43	30
Heavy Metals						
Arsenic	2	mg/kg	2.1	< 2	< 2	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	5.8	4.3	3.3	< 1
Copper	1	mg/kg	< 1	< 1	< 1	< 1
Lead	1	mg/kg	1.3	1.5	1.2	1.1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	< 5	< 5	< 5	< 5
Sample Properties						
% Moisture	1	%	< 1	< 1	< 1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	-	-	< 0.01	-
alpha-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	-
beta-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	-
delta-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	-
Bifenthrin	0.2	mg/kg	-	-	< 0.2	-
Bromophos Ethyl	0.05	mg/kg	-	-	< 0.05	-
Chlordane	0.01	mg/kg	-	-	< 0.01	-
Chlorpyrifos	0.02	mg/kg	-	-	< 0.02	-
Dieldrin	0.01	mg/kg	-	-	< 0.01	-
p,p-DDD	0.01	mg/kg	-	-	< 0.01	-
p,p-DDE	0.01	mg/kg	-	-	< 0.01	-
p,p-DDT	0.01	mg/kg	-	-	< 0.01	-
o,p-DDT	0.01	mg/kg	-	-	< 0.01	-
Endosulfan I	0.01	mg/kg	-	-	< 0.01	-
Endosulfan II	0.01	mg/kg	-	-	< 0.01	-

Client Sample ID			TP23/0.0	TP25/0.0	TP26/0.0	TP29/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024735	L23- No0024736	L23- No0024737	L23- No0024738
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Endosulfan Sulfate	0.01	mg/kg	-	-	< 0.01	-
Endrin	0.01	mg/kg	-	-	< 0.01	-
Heptachlor	0.01	mg/kg	-	-	< 0.01	-
Heptachlor Epoxide	0.01	mg/kg	-	-	< 0.01	-
Hexachlorobenzene (HCB)	0.01	mg/kg	-	-	< 0.01	-
Lindane	0.01	mg/kg	-	-	< 0.01	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Oxychlorane	0.01	mg/kg	-	-	< 0.01	-
Diazinon	0.2	mg/kg	-	-	< 0.2	-
Ethion	0.05	mg/kg	-	-	< 0.05	-
Fenitrothion	0.1	mg/kg	-	-	< 0.1	-
Malathion	0.1	mg/kg	-	-	< 0.1	-
Trifluralin	0.2	mg/kg	-	-	< 0.2	-
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	-	< 0.04	-
Aldicarb Sulfoxide	0.004	mg/kg	-	-	< 0.004	-
Carbendazim	0.04	mg/kg	-	-	< 0.04	-
Oxamyl	0.04	mg/kg	-	-	< 0.04	-
Aldicarb Sulfone	0.02	mg/kg	-	-	< 0.02	-
Methomyl	0.04	mg/kg	-	-	< 0.04	-
Fenuron/Fenuron TCA	0.005	mg/kg	-	-	< 0.005	-
Thidiazuron	0.04	mg/kg	-	-	< 0.04	-
Aldicarb	0.004	mg/kg	-	-	< 0.004	-
Bromacil	0.04	mg/kg	-	-	< 0.04	-
Mexacarbate	0.02	mg/kg	-	-	< 0.02	-
Monuron/Monuron TCA	0.04	mg/kg	-	-	< 0.04	-
Propoxur	0.004	mg/kg	-	-	< 0.004	-
Carbofuran	0.04	mg/kg	-	-	< 0.04	-
Fluometuron	0.02	mg/kg	-	-	< 0.02	-
Carbaryl	0.05	mg/kg	-	-	< 0.05	-
Diuron	0.04	mg/kg	-	-	< 0.04	-
Propachlor	0.02	mg/kg	-	-	< 0.02	-
Siduron	0.02	mg/kg	-	-	< 0.02	-
Methiocarb	0.04	mg/kg	-	-	< 0.04	-
Linuron	0.04	mg/kg	-	-	< 0.04	-
Neburon	0.04	mg/kg	-	-	< 0.04	-

Client Sample ID			TP30/0.0	TP34/0.0	TP35/0.0	TP38/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024739	L23- No0024740	L23- No0024741	L23- No0024742
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	88	-	85	91
Tetrachloro-m-xylene (surr.)	1	%	105	-	87	87
NOx-N	1	mg/kg	1.0	< 1	< 1	2.1
Total Kjeldahl Nitrogen	10	mg/kg	460	250	170	200
Total Nitrogen	10	mg/kg	460	250	170	200
Phosphorus	1	mg/kg	69	19	180	9.4
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	3.1	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	2.2	< 1	10	< 1
Copper	1	mg/kg	1.9	< 1	< 1	< 1
Lead	1	mg/kg	2.1	< 1	< 1	< 1
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	< 5	< 5	7.1	< 5
Sample Properties						
% Moisture	1	%	< 1	< 1	< 1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	-	< 0.01	-	-
alpha-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
beta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
delta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-

Client Sample ID			TP30/0.0	TP34/0.0	TP35/0.0	TP38/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024739	L23- No0024740	L23- No0024741	L23- No0024742
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Bifenthrin	0.2	mg/kg	-	< 0.2	-	-
Bromophos Ethyl	0.05	mg/kg	-	< 0.05	-	-
Chlordane	0.01	mg/kg	-	< 0.01	-	-
Chlorpyrifos	0.02	mg/kg	-	< 0.02	-	-
Dieldrin	0.01	mg/kg	-	< 0.01	-	-
p,p-DDD	0.01	mg/kg	-	< 0.01	-	-
p,p-DDE	0.01	mg/kg	-	< 0.01	-	-
p,p-DDT	0.01	mg/kg	-	< 0.01	-	-
o,p-DDT	0.01	mg/kg	-	< 0.01	-	-
Endosulfan I	0.01	mg/kg	-	< 0.01	-	-
Endosulfan II	0.01	mg/kg	-	< 0.01	-	-
Endosulfan Sulfate	0.01	mg/kg	-	< 0.01	-	-
Endrin	0.01	mg/kg	-	< 0.01	-	-
Heptachlor	0.01	mg/kg	-	< 0.01	-	-
Heptachlor Epoxide	0.01	mg/kg	-	< 0.01	-	-
Hexachlorobenzene (HCB)	0.01	mg/kg	-	< 0.01	-	-
Lindane	0.01	mg/kg	-	< 0.01	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Oxychlordane	0.01	mg/kg	-	< 0.01	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.05	mg/kg	-	< 0.05	-	-
Fenitrothion	0.1	mg/kg	-	< 0.1	-	-
Malathion	0.1	mg/kg	-	< 0.1	-	-
Trifluralin	0.2	mg/kg	-	< 0.2	-	-
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfoxide	0.004	mg/kg	-	< 0.004	-	-
Carbendazim	0.04	mg/kg	-	< 0.04	-	-
Oxamyl	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfone	0.02	mg/kg	-	< 0.02	-	-
Methomyl	0.04	mg/kg	-	< 0.04	-	-
Fenuron/Fenuron TCA	0.005	mg/kg	-	< 0.005	-	-
Thidiazuron	0.04	mg/kg	-	< 0.04	-	-
Aldicarb	0.004	mg/kg	-	< 0.004	-	-
Bromacil	0.04	mg/kg	-	< 0.04	-	-
Mexacarbate	0.02	mg/kg	-	< 0.02	-	-
Monuron/Monuron TCA	0.04	mg/kg	-	< 0.04	-	-
Propoxur	0.004	mg/kg	-	< 0.004	-	-
Carbofuran	0.04	mg/kg	-	< 0.04	-	-
Fluometuron	0.02	mg/kg	-	< 0.02	-	-
Carbaryl	0.05	mg/kg	-	< 0.05	-	-
Diuron	0.04	mg/kg	-	< 0.04	-	-
Propachlor	0.02	mg/kg	-	< 0.02	-	-
Siduron	0.02	mg/kg	-	< 0.02	-	-
Methiocarb	0.04	mg/kg	-	< 0.04	-	-
Linuron	0.04	mg/kg	-	< 0.04	-	-
Neburon	0.04	mg/kg	-	< 0.04	-	-

Client Sample ID			TP39/0.0	QC11	TP41/0.0	TP42/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024743	L23- No0024745	L23- No0024746	L23- No0024747
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	69	-	76	84
Tetrachloro-m-xylene (surr.)	1	%	84	-	87	129
NOx-N	1	mg/kg	< 1	1.5	1.2	< 1
Total Kjeldahl Nitrogen	10	mg/kg	250	230	580	350
Total Nitrogen	10	mg/kg	250	230	580	350
Phosphorus	1	mg/kg	33	470	310	240
Heavy Metals						
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	1.4	1.5	1.0	< 1
Copper	1	mg/kg	< 1	440	130	81
Lead	1	mg/kg	1.5	1.5	1.3	1.7
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	1.7	< 1	< 1
Zinc	5	mg/kg	< 5	27	9.7	19
Sample Properties						
% Moisture	1	%	< 1	3.0	< 1	< 1
OCOP in Soil						
Aldrin	0.01	mg/kg	-	< 0.01	-	-
alpha-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
beta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-
delta-BHC (HCH)	0.01	mg/kg	-	< 0.01	-	-

Client Sample ID			TP39/0.0	QC11	TP41/0.0	TP42/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024743	L23- No0024745	L23- No0024746	L23- No0024747
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Bifenthrin	0.2	mg/kg	-	< 0.2	-	-
Bromophos Ethyl	0.05	mg/kg	-	< 0.05	-	-
Chlordane	0.01	mg/kg	-	< 0.01	-	-
Chlorpyrifos	0.02	mg/kg	-	< 0.02	-	-
Dieldrin	0.01	mg/kg	-	0.02	-	-
p,p-DDD	0.01	mg/kg	-	< 0.01	-	-
p,p-DDE	0.01	mg/kg	-	< 0.01	-	-
p,p-DDT	0.01	mg/kg	-	< 0.01	-	-
o,p-DDT	0.01	mg/kg	-	< 0.01	-	-
Endosulfan I	0.01	mg/kg	-	< 0.01	-	-
Endosulfan II	0.01	mg/kg	-	< 0.01	-	-
Endosulfan Sulfate	0.01	mg/kg	-	< 0.01	-	-
Endrin	0.01	mg/kg	-	< 0.01	-	-
Heptachlor	0.01	mg/kg	-	< 0.01	-	-
Heptachlor Epoxide	0.01	mg/kg	-	< 0.01	-	-
Hexachlorobenzene (HCB)	0.01	mg/kg	-	< 0.01	-	-
Lindane	0.01	mg/kg	-	< 0.01	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Oxychlordane	0.01	mg/kg	-	< 0.01	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.05	mg/kg	-	< 0.05	-	-
Fenitrothion	0.1	mg/kg	-	< 0.1	-	-
Malathion	0.1	mg/kg	-	< 0.1	-	-
Trifluralin	0.2	mg/kg	-	< 0.2	-	-
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfoxide	0.004	mg/kg	-	< 0.004	-	-
Carbendazim	0.04	mg/kg	-	< 0.04	-	-
Oxamyl	0.04	mg/kg	-	< 0.04	-	-
Aldicarb Sulfone	0.02	mg/kg	-	< 0.02	-	-
Methomyl	0.04	mg/kg	-	< 0.04	-	-
Fenuron/Fenuron TCA	0.005	mg/kg	-	< 0.005	-	-
Thidiazuron	0.04	mg/kg	-	< 0.04	-	-
Aldicarb	0.004	mg/kg	-	< 0.004	-	-
Bromacil	0.04	mg/kg	-	< 0.04	-	-
Mexacarbate	0.02	mg/kg	-	< 0.02	-	-
Monuron/Monuron TCA	0.04	mg/kg	-	< 0.04	-	-
Propoxur	0.004	mg/kg	-	< 0.004	-	-
Carbofuran	0.04	mg/kg	-	< 0.04	-	-
Fluometuron	0.02	mg/kg	-	< 0.02	-	-
Carbaryl	0.05	mg/kg	-	< 0.05	-	-
Diuron	0.04	mg/kg	-	< 0.04	-	-
Propachlor	0.02	mg/kg	-	< 0.02	-	-
Siduron	0.02	mg/kg	-	< 0.02	-	-
Methiocarb	0.04	mg/kg	-	< 0.04	-	-
Linuron	0.04	mg/kg	-	< 0.04	-	-
Neburon	0.04	mg/kg	-	< 0.04	-	-

Client Sample ID			TP45/0.0	TP48/0.0	TP51/0.0	TP53/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024748	L23- No0024749	L23- No0024750	L23- No0024751
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloride (surr.)	1	%	-	60	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	77	129	-
NOx-N	1	mg/kg	2.0	1.8	2.1	2.1
Total Kjeldahl Nitrogen	10	mg/kg	310	470	370	450
Total Nitrogen	10	mg/kg	310	470	370	450
Phosphorus	1	mg/kg	64	330	120	130
Heavy Metals						
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	2.3	2.6	2.8
Copper	1	mg/kg	62	6.5	3.0	3.7
Lead	1	mg/kg	1.2	1.7	1.7	1.5
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	5.4	14	5.4	< 5
Sample Properties						
% Moisture	1	%	< 1	< 1	< 1	1.0
OCOP in Soil						
Aldrin	0.01	mg/kg	< 0.01	-	-	< 0.01
alpha-BHC (HCH)	0.01	mg/kg	< 0.01	-	-	< 0.01
beta-BHC (HCH)	0.01	mg/kg	< 0.01	-	-	< 0.01
delta-BHC (HCH)	0.01	mg/kg	< 0.01	-	-	< 0.01

Client Sample ID			TP45/0.0	TP48/0.0	TP51/0.0	TP53/0.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024748	L23- No0024749	L23- No0024750	L23- No0024751
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Bifenthrin	0.2	mg/kg	< 0.2	-	-	< 0.2
Bromophos Ethyl	0.05	mg/kg	< 0.05	-	-	< 0.05
Chlordane	0.01	mg/kg	< 0.01	-	-	< 0.01
Chlorpyrifos	0.02	mg/kg	< 0.02	-	-	< 0.02
Dieldrin	0.01	mg/kg	< 0.01	-	-	< 0.01
p,p-DDD	0.01	mg/kg	< 0.01	-	-	< 0.01
p,p-DDE	0.01	mg/kg	< 0.01	-	-	< 0.01
p,p-DDT	0.01	mg/kg	< 0.01	-	-	< 0.01
o,p-DDT	0.01	mg/kg	< 0.01	-	-	< 0.01
Endosulfan I	0.01	mg/kg	< 0.01	-	-	< 0.01
Endosulfan II	0.01	mg/kg	< 0.01	-	-	< 0.01
Endosulfan Sulfate	0.01	mg/kg	< 0.01	-	-	< 0.01
Endrin	0.01	mg/kg	< 0.01	-	-	< 0.01
Heptachlor	0.01	mg/kg	< 0.01	-	-	< 0.01
Heptachlor Epoxide	0.01	mg/kg	< 0.01	-	-	< 0.01
Hexachlorobenzene (HCB)	0.01	mg/kg	< 0.01	-	-	< 0.01
Lindane	0.01	mg/kg	< 0.01	-	-	< 0.01
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Oxychlordane	0.01	mg/kg	< 0.01	-	-	< 0.01
Diazinon	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethion	0.05	mg/kg	< 0.05	-	-	< 0.05
Fenitrothion	0.1	mg/kg	< 0.1	-	-	< 0.1
Malathion	0.1	mg/kg	< 0.1	-	-	< 0.1
Trifluralin	0.2	mg/kg	< 0.2	-	-	< 0.2
Carbamates in Soil						
Aminocarb	0.04	mg/kg	< 0.04	-	-	< 0.04
Aldicarb Sulfoxide	0.004	mg/kg	< 0.004	-	-	< 0.004
Carbendazim	0.04	mg/kg	< 0.04	-	-	< 0.04
Oxamyl	0.04	mg/kg	< 0.04	-	-	< 0.04
Aldicarb Sulfone	0.02	mg/kg	< 0.02	-	-	< 0.02
Methomyl	0.04	mg/kg	< 0.04	-	-	< 0.04
Fenuron/Fenuron TCA	0.005	mg/kg	< 0.005	-	-	< 0.005
Thidiazuron	0.04	mg/kg	< 0.04	-	-	< 0.04
Aldicarb	0.004	mg/kg	< 0.004	-	-	< 0.004
Bromacil	0.04	mg/kg	< 0.04	-	-	< 0.04
Mexacarbate	0.02	mg/kg	< 0.02	-	-	< 0.02
Monuron/Monuron TCA	0.04	mg/kg	< 0.04	-	-	< 0.04
Propoxur	0.004	mg/kg	< 0.004	-	-	< 0.004
Carbofuran	0.04	mg/kg	< 0.04	-	-	< 0.04
Fluometuron	0.02	mg/kg	< 0.02	-	-	< 0.02
Carbaryl	0.05	mg/kg	< 0.05	-	-	< 0.05
Diuron	0.04	mg/kg	< 0.04	-	-	< 0.04
Propachlor	0.02	mg/kg	< 0.02	-	-	< 0.02
Siduron	0.02	mg/kg	< 0.02	-	-	< 0.02
Methiocarb	0.04	mg/kg	< 0.04	-	-	< 0.04
Linuron	0.04	mg/kg	< 0.04	-	-	< 0.04
Neburon	0.04	mg/kg	< 0.04	-	-	< 0.04

Client Sample ID			TP56/0.0	TP58/0.0	TP59/0.0	QC13
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024752	L23- No0024753	L23- No0024754	L23- No0024755
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloride (surr.)	1	%	60	100	-	-
Tetrachloro-m-xylene (surr.)	1	%	77	105	-	-
NOx-N	1	mg/kg	1.2	2.9	3.1	3.3
Total Kjeldahl Nitrogen	10	mg/kg	170	970	760	400
Total Nitrogen	10	mg/kg	170	970	760	400
Phosphorus	1	mg/kg	130	450	430	90
Heavy Metals						
Arsenic	2	mg/kg	3.2	4.1	3.8	< 2
Cadmium	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	1	mg/kg	8.4	12	10	< 1
Copper	1	mg/kg	< 1	8.2	7.3	4.0
Lead	1	mg/kg	2.2	2.9	2.9	1.3
Mercury	0.02	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02
Nickel	1	mg/kg	< 1	< 1	< 1	< 1
Zinc	5	mg/kg	9.9	20	8.9	6.3
Sample Properties						
% Moisture	1	%	< 1	2.2	1.6	1.6
OCOP in Soil						
Aldrin	0.01	mg/kg	-	-	< 0.01	< 0.01
alpha-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	< 0.01
beta-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	< 0.01
delta-BHC (HCH)	0.01	mg/kg	-	-	< 0.01	< 0.01

Client Sample ID			TP56/0.0	TP58/0.0	TP59/0.0	QC13
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			L23- No0024752	L23- No0024753	L23- No0024754	L23- No0024755
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
OCOP in Soil						
Bifenthrin	0.2	mg/kg	-	-	< 0.2	< 0.2
Bromophos Ethyl	0.05	mg/kg	-	-	< 0.05	< 0.05
Chlordane	0.01	mg/kg	-	-	< 0.01	< 0.01
Chlorpyrifos	0.02	mg/kg	-	-	< 0.02	< 0.02
Dieldrin	0.01	mg/kg	-	-	< 0.01	< 0.01
p,p-DDD	0.01	mg/kg	-	-	< 0.01	< 0.01
p,p-DDE	0.01	mg/kg	-	-	< 0.01	< 0.01
p,p-DDT	0.01	mg/kg	-	-	< 0.01	< 0.01
o,p-DDT	0.01	mg/kg	-	-	< 0.01	< 0.01
Endosulfan I	0.01	mg/kg	-	-	< 0.01	< 0.01
Endosulfan II	0.01	mg/kg	-	-	< 0.01	< 0.01
Endosulfan Sulfate	0.01	mg/kg	-	-	< 0.01	< 0.01
Endrin	0.01	mg/kg	-	-	< 0.01	< 0.01
Heptachlor	0.01	mg/kg	-	-	< 0.01	< 0.01
Heptachlor Epoxide	0.01	mg/kg	-	-	< 0.01	< 0.01
Hexachlorobenzene (HCB)	0.01	mg/kg	-	-	< 0.01	< 0.01
Lindane	0.01	mg/kg	-	-	< 0.01	< 0.01
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Oxychlordane	0.01	mg/kg	-	-	< 0.01	< 0.01
Diazinon	0.2	mg/kg	-	-	< 0.2	< 0.2
Ethion	0.05	mg/kg	-	-	< 0.05	< 0.05
Fenitrothion	0.1	mg/kg	-	-	< 0.1	< 0.1
Malathion	0.1	mg/kg	-	-	< 0.1	< 0.1
Trifluralin	0.2	mg/kg	-	-	< 0.2	< 0.2
Carbamates in Soil						
Aminocarb	0.04	mg/kg	-	-	< 0.04	< 0.04
Aldicarb Sulfoxide	0.004	mg/kg	-	-	< 0.004	< 0.004
Carbendazim	0.04	mg/kg	-	-	< 0.04	< 0.04
Oxamyl	0.04	mg/kg	-	-	< 0.04	< 0.04
Aldicarb Sulfone	0.02	mg/kg	-	-	< 0.02	< 0.02
Methomyl	0.04	mg/kg	-	-	< 0.04	< 0.04
Fenuron/Fenuron TCA	0.005	mg/kg	-	-	< 0.005	< 0.005
Thidiazuron	0.04	mg/kg	-	-	< 0.04	< 0.04
Aldicarb	0.004	mg/kg	-	-	< 0.004	< 0.004
Bromacil	0.04	mg/kg	-	-	< 0.04	< 0.04
Mexacarbate	0.02	mg/kg	-	-	< 0.02	< 0.02
Monuron/Monuron TCA	0.04	mg/kg	-	-	< 0.04	< 0.04
Propoxur	0.004	mg/kg	-	-	< 0.004	< 0.004
Carbofuran	0.04	mg/kg	-	-	< 0.04	< 0.04
Fluometuron	0.02	mg/kg	-	-	< 0.02	< 0.02
Carbaryl	0.05	mg/kg	-	-	< 0.05	< 0.05
Diuron	0.04	mg/kg	-	-	< 0.04	< 0.04
Propachlor	0.02	mg/kg	-	-	< 0.02	< 0.02
Siduron	0.02	mg/kg	-	-	< 0.02	< 0.02
Methiocarb	0.04	mg/kg	-	-	< 0.04	< 0.04
Linuron	0.04	mg/kg	-	-	< 0.04	< 0.04
Neburon	0.04	mg/kg	-	-	< 0.04	< 0.04

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
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Welshpool	Nov 14, 2023	14 Days
Phosphorus - Method: ARL401/403 - Metals in Soil and Sediment by ICPOES/MS	Welshpool	Nov 16, 2023	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Nov 14, 2023	28 Days
OCOP in Soil - Method: ARL003 - OCOP and PCB in Soil	Welshpool	Nov 16, 2023	14 Days
Carbamates in Soil - Method: ARL504 - Carbamates in Soil	Welshpool	Nov 16, 2023	14 Days
NOx-N - Method: ARL314 - NOx in Soil and Sediment by Discrete Analyser	Welshpool	Nov 16, 2023	7 Days
Total Kjeldahl Nitrogen - Method: ARL118 - Total Phosphorus and TKN in Soil and Biosolids	Welshpool	Nov 16, 2023	7 Days
Total Nitrogen - Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP	Welshpool	Nov 10, 2023	7 Days
% Moisture - Method: ARL135 Moisture in Solids	Welshpool	Nov 10, 2023	14 Days



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rourke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbamates in Soil	Total Nitrogen	Carbamates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	TP01/0.0	Nov 01, 2023		Soil	L23-No0024721		X	X		X	X				X		
2	TP03/0.0	Nov 01, 2023		Soil	L23-No0024722		X			X	X	X		X	X		
3	TP04/0.0	Nov 01, 2023		Soil	L23-No0024723		X	X		X	X				X		
4	TP08/0.0	Nov 01, 2023		Soil	L23-No0024724		X	X		X	X				X		
5	TP09/0.0	Nov 01, 2023		Soil	L23-No0024725		X	X		X	X				X		
6	TP11/0.0	Nov 01, 2023		Soil	L23-No0024726		X			X	X	X		X	X		
7	TP14/0.0	Nov 01, 2023		Soil	L23-No0024727		X	X		X	X				X		
8	TP15/0.0	Nov 01, 2023		Soil	L23-No0024728		X	X		X	X				X		
9	TP19/0.0	Nov 01, 2023		Soil	L23-No0024729		X			X	X	X		X	X		
10	TP20/0.0	Nov 01, 2023		Soil	L23-No0024730		X	X		X	X				X		
11	QC01	Nov 01, 2023		Water	L23-No0024731					X			X			X	X
12	QC02	Nov 01, 2023		Water	L23-No0024732					X			X			X	X
13	QC03	Nov 01, 2023		Soil	L23-No0024733		X			X	X	X		X	X		



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
14	TP21/0.0	Nov 02, 2023		Soil	L23-No0024734		X			X	X	X		X	X		
15	TP23/0.0	Nov 02, 2023		Soil	L23-No0024735		X	X		X	X				X		
16	TP25/0.0	Nov 02, 2023		Soil	L23-No0024736		X	X		X	X				X		
17	TP26/0.0	Nov 02, 2023		Soil	L23-No0024737		X			X	X	X		X	X		
18	TP29/0.0	Nov 02, 2023		Soil	L23-No0024738		X	X		X	X				X		
19	TP30/0.0	Nov 02, 2023		Soil	L23-No0024739		X	X		X	X				X		
20	TP34/0.0	Nov 02, 2023		Soil	L23-No0024740		X			X	X	X		X	X		
21	TP35/0.0	Nov 02, 2023		Soil	L23-No0024741		X	X		X	X				X		
22	TP38/0.0	Nov 02, 2023		Soil	L23-No0024742		X	X		X	X				X		
23	TP39/0.0	Nov 02, 2023		Soil	L23-No0024743		X	X		X	X				X		
24	QC10	Nov 02, 2023		Water	L23-No0024744					X			X			X	X
25	QC11	Nov 02, 2023		Soil	L23-No0024745		X			X	X	X		X	X		
26	TP41/0.0	Nov 03, 2023		Soil	L23-No0024746		X	X		X	X				X		
27	TP42/0.0	Nov 03, 2023		Soil	L23-No0024747		X	X		X	X				X		
28	TP45/0.0	Nov 03, 2023		Soil	L23-No0024748		X			X	X	X		X	X		

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
29	TP48/0.0	Nov 03, 2023		Soil	L23-No0024749		X	X		X	X				X		
30	TP51/0.0	Nov 03, 2023		Soil	L23-No0024750		X	X		X	X				X		
31	TP53/0.0	Nov 03, 2023		Soil	L23-No0024751		X			X	X	X		X	X		
32	TP56/0.0	Nov 03, 2023		Soil	L23-No0024752		X	X		X	X				X		
33	TP58/0.0	Nov 03, 2023		Soil	L23-No0024753		X	X		X	X				X		
34	TP59/0.0	Nov 03, 2023		Soil	L23-No0024754		X			X	X	X		X	X		
35	QC13	Nov 03, 2023		Soil	L23-No0024755		X			X	X	X		X	X		
36	QC15	Nov 03, 2023		Water	L23-No0024756					X			X			X	X
37	TP01/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024757				X	X							
38	TP03/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024758				X	X							
39	TP04/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024759				X	X							
40	TP08/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024760				X	X							

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
41	TP09/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024761				X	X							
42	TP11/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024762				X	X							
43	TP14/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024763				X	X							
44	TP15/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024764				X	X							
45	TP19/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024765				X	X							
46	TP20/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024766				X	X							
47	QC03	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024767				X	X							
48	TP21/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024768				X	X							
49	TP23/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024769				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
50	TP25/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024770				X	X							
51	TP26/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024771				X	X							
52	TP29/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024772				X	X							
53	TP30/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024773				X	X							
54	TP34/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024774				X	X							
55	TP35/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024775				X	X							
56	TP38/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024776				X	X							
57	TP39/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024777				X	X							
58	QC11	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024778				X	X							

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
59	TP41/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024779				X	X							
60	TP42/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024780				X	X							
61	TP45/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024781				X	X							
62	TP48/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024782				X	X							
63	TP51/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024783				X	X							
64	TP53/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024784				X	X							
65	TP56/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024785				X	X							
66	TP58/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024786				X	X							
67	TP59/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024787				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
68	QC13	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024788				X	X							
69	TP57/0.0	Not Provided		Soil	L23-No0024789	X											
Test Counts						1	32	20	32	68	32	12	4	13	32	4	4

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.
- 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 unless otherwise stated.
- 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.
- 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 date of sampling; 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 7 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	µg/L: micrograms per litre
ppm: parts per million	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		

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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only 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%

PFAS field samples that contain surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported, have been 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							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Aldrin and Dieldrin (Total)*	mg/kg	< 0.05			0.05	Pass	
Method Blank							
NOx-N	mg/kg	< 1			1	Pass	
Total Kjeldahl Nitrogen	mg/kg	< 10			10	Pass	
Phosphorus	mg/kg	< 1			1	Pass	
Method Blank							
Heavy Metals							
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							
OCOP in Soil							
Aldrin	mg/kg	< 0.01			0.01	Pass	
alpha-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
beta-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
delta-BHC (HCH)	mg/kg	< 0.01			0.01	Pass	
Bifenthrin	mg/kg	< 0.2			0.2	Pass	
Bromophos Ethyl	mg/kg	< 0.05			0.05	Pass	
Chlordane	mg/kg	< 0.01			0.01	Pass	
Chlorpyrifos	mg/kg	< 0.02			0.02	Pass	
Dieldrin	mg/kg	< 0.01			0.01	Pass	
p.p-DDD	mg/kg	< 0.01			0.01	Pass	
p.p-DDE	mg/kg	< 0.01			0.01	Pass	
p.p-DDT	mg/kg	< 0.01			0.01	Pass	
o.p-DDT	mg/kg	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	mg/kg	< 0.01			0.01	Pass	
Endosulfan II	mg/kg	< 0.01			0.01	Pass	
Endosulfan Sulfate	mg/kg	< 0.01			0.01	Pass	
Endrin	mg/kg	< 0.01			0.01	Pass	
Heptachlor	mg/kg	< 0.01			0.01	Pass	
Heptachlor Epoxide	mg/kg	< 0.01			0.01	Pass	
Hexachlorobenzene (HCB)	mg/kg	< 0.01			0.01	Pass	
Lindane	mg/kg	< 0.01			0.01	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Oxychlorodane	mg/kg	< 0.01			0.01	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.05			0.05	Pass	
Fenitrothion	mg/kg	< 0.1			0.1	Pass	
Malathion	mg/kg	< 0.1			0.1	Pass	
Trifluralin	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Carbamates in Soil							
Aminocarb	mg/kg	< 0.04			0.04	Pass	
Aldicarb Sulfoxide	mg/kg	< 0.004			0.004	Pass	
Carbendazim	mg/kg	< 0.04			0.04	Pass	
Oxamyl	mg/kg	< 0.04			0.04	Pass	
Aldicarb Sulfone	mg/kg	< 0.02			0.02	Pass	
Methomyl	mg/kg	< 0.04			0.04	Pass	
Fenuron/Fenuron TCA	mg/kg	< 0.005			0.005	Pass	
Thidiazuron	mg/kg	< 0.04			0.04	Pass	
Aldicarb	mg/kg	< 0.004			0.004	Pass	
Bromacil	mg/kg	< 0.04			0.04	Pass	
Mexacarbate	mg/kg	< 0.02			0.02	Pass	
Monuron/Monuron TCA	mg/kg	< 0.04			0.04	Pass	
Propoxur	mg/kg	< 0.004			0.004	Pass	
Carbofuran	mg/kg	< 0.04			0.04	Pass	
Fluometuron	mg/kg	< 0.02			0.02	Pass	
Carbaryl	mg/kg	< 0.05			0.05	Pass	
Diuron	mg/kg	< 0.04			0.04	Pass	
Propachlor	mg/kg	< 0.02			0.02	Pass	
Siduron	mg/kg	< 0.02			0.02	Pass	
Methiocarb	mg/kg	< 0.04			0.04	Pass	
Linuron	mg/kg	< 0.04			0.04	Pass	
Neburon	mg/kg	< 0.04			0.04	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	104			70-130	Pass	
4,4'-DDD	%	110			70-130	Pass	
4,4'-DDE	%	104			70-130	Pass	
4,4'-DDT	%	91			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-HCH	%	99			70-130	Pass	
d-HCH	%	88			70-130	Pass	
Dieldrin	%	91			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	105			70-130	Pass	
Endosulfan sulphate	%	83			70-130	Pass	
Endrin	%	87			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde			%	103			70-130	Pass	
Endrin ketone			%	110			70-130	Pass	
g-HCH (Lindane)			%	107			70-130	Pass	
Heptachlor			%	84			70-130	Pass	
Heptachlor epoxide			%	95			70-130	Pass	
Hexachlorobenzene			%	92			70-130	Pass	
Methoxychlor			%	94			70-130	Pass	
LCS - % Recovery									
Phosphorus			%	117			80-120	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	100			80-120	Pass	
Cadmium			%	92			80-120	Pass	
Chromium			%	91			80-120	Pass	
Copper			%	87			80-120	Pass	
Lead			%	89			80-120	Pass	
Mercury			%	91			80-120	Pass	
Nickel			%	89			80-120	Pass	
Zinc			%	87			80-120	Pass	
LCS - % Recovery									
OCOP in Soil									
Bifenthrin			%	78			60-120	Pass	
o,p-DDT			%	74			60-120	Pass	
Endosulfan I			%	79			60-120	Pass	
Malathion			%	81			60-120	Pass	
Trifluralin			%	100			60-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	L23-No0024722	CP	%	97			75-125	Pass	
Cadmium	L23-No0024722	CP	%	96			75-125	Pass	
Chromium	L23-No0024722	CP	%	99			75-125	Pass	
Copper	L23-No0024722	CP	%	98			75-125	Pass	
Mercury	L23-No0024722	CP	%	96			75-125	Pass	
Nickel	L23-No0024722	CP	%	98			75-125	Pass	
Zinc	L23-No0024722	CP	%	99			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	L23-No0024723	CP	%	103			70-130	Pass	
4,4'-DDD	L23-No0024723	CP	%	108			70-130	Pass	
4,4'-DDE	L23-No0024723	CP	%	105			70-130	Pass	
4,4'-DDT	L23-No0024723	CP	%	100			70-130	Pass	
a-HCH	L23-No0024723	CP	%	90			70-130	Pass	
Aldrin	L23-No0024723	CP	%	100			70-130	Pass	
b-HCH	L23-No0024723	CP	%	100			70-130	Pass	
d-HCH	L23-No0024723	CP	%	97			70-130	Pass	
Dieldrin	L23-No0024723	CP	%	101			70-130	Pass	
Endosulfan I	L23-No0024723	CP	%	93			70-130	Pass	
Endosulfan II	L23-No0024723	CP	%	104			70-130	Pass	
Endosulfan sulphate	L23-No0024723	CP	%	98			70-130	Pass	
Endrin	L23-No0024723	CP	%	98			70-130	Pass	
Endrin aldehyde	L23-No0024723	CP	%	101			70-130	Pass	
Endrin ketone	L23-No0024723	CP	%	96			70-130	Pass	
g-HCH (Lindane)	L23-No0024723	CP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	L23-No0024723	CP	%	95			70-130	Pass	
Heptachlor epoxide	L23-No0024723	CP	%	104			70-130	Pass	
Hexachlorobenzene	L23-No0024723	CP	%	95			70-130	Pass	
Methoxychlor	L23-No0024723	CP	%	81			70-130	Pass	
Spike - % Recovery									
OCOP in Soil				Result 1					
Bifenthrin	L23-No0014560	NCP	%	91			60-120	Pass	
o,p-DDT	L23-No0014560	NCP	%	96			60-120	Pass	
Endosulfan I	L23-No0014560	NCP	%	113			60-120	Pass	
Malathion	L23-No0014560	NCP	%	91			60-120	Pass	
Trifluralin	L23-No0014560	NCP	%	89			60-120	Pass	
Spike - % Recovery									
Carbamates in Soil				Result 1					
Aminocarb	L23-No0024726	CP	%	94			60-120	Pass	
Aldicarb Sulfoxide	L23-No0024726	CP	%	93			60-120	Pass	
Carbendazim	L23-No0024726	CP	%	92			60-120	Pass	
Oxamyl	L23-No0024726	CP	%	88			60-120	Pass	
Aldicarb Sulfone	L23-No0024726	CP	%	96			60-120	Pass	
Methomyl	L23-No0024726	CP	%	96			60-120	Pass	
Fenuron/Fenuron TCA	L23-No0024726	CP	%	99			60-120	Pass	
Thidiazuron	L23-No0024726	CP	%	99			60-120	Pass	
Aldicarb	L23-No0024726	CP	%	90			60-120	Pass	
Bromacil	L23-No0024726	CP	%	111			60-120	Pass	
Mexacarbate	L23-No0024726	CP	%	96			60-120	Pass	
Monuron/Monuron TCA	L23-No0024726	CP	%	102			60-120	Pass	
Propoxur	L23-No0024726	CP	%	103			60-120	Pass	
Carbofuran	L23-No0024726	CP	%	99			60-120	Pass	
Fluometuron	L23-No0024726	CP	%	94			60-120	Pass	
Carbaryl	L23-No0024726	CP	%	87			60-120	Pass	
Diuron	L23-No0024726	CP	%	89			60-120	Pass	
Propachlor	L23-No0024726	CP	%	104			60-120	Pass	
Siduron	L23-No0024726	CP	%	106			60-120	Pass	
Methiocarb	L23-No0024726	CP	%	108			60-120	Pass	
Linuron	L23-No0024726	CP	%	89			60-120	Pass	
Neburon	L23-No0024726	CP	%	98			60-120	Pass	
Spike - % Recovery									
Carbamates in Soil				Result 1					
Aminocarb	L23-No0024755	CP	%	83			60-120	Pass	
Aldicarb Sulfoxide	L23-No0024755	CP	%	84			60-120	Pass	
Carbendazim	L23-No0024755	CP	%	84			60-120	Pass	
Oxamyl	L23-No0024755	CP	%	86			60-120	Pass	
Aldicarb Sulfone	L23-No0024755	CP	%	90			60-120	Pass	
Methomyl	L23-No0024755	CP	%	87			60-120	Pass	
Fenuron/Fenuron TCA	L23-No0024755	CP	%	93			60-120	Pass	
Thidiazuron	L23-No0024755	CP	%	86			60-120	Pass	
Aldicarb	L23-No0024755	CP	%	81			60-120	Pass	
Bromacil	L23-No0024755	CP	%	82			60-120	Pass	
Mexacarbate	L23-No0024755	CP	%	87			60-120	Pass	
Monuron/Monuron TCA	L23-No0024755	CP	%	91			60-120	Pass	
Propoxur	L23-No0024755	CP	%	93			60-120	Pass	
Carbofuran	L23-No0024755	CP	%	85			60-120	Pass	
Fluometuron	L23-No0024755	CP	%	92			60-120	Pass	
Carbaryl	L23-No0024755	CP	%	88			60-120	Pass	
Diuron	L23-No0024755	CP	%	94			60-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Propachlor	L23-No0024755	CP	%	91			60-120	Pass	
Siduron	L23-No0024755	CP	%	86			60-120	Pass	
Methiocarb	L23-No0024755	CP	%	102			60-120	Pass	
Linuron	L23-No0024755	CP	%	85			60-120	Pass	
Neburon	L23-No0024755	CP	%	87			60-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	L23-No0024721	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	L23-No0024721	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Phosphorus	L23-No0024721	CP	mg/kg	280	290	4.6	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L23-No0024721	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	L23-No0024721	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Chromium	L23-No0024721	CP	mg/kg	2.4	2.3	3.5	30%	Pass	
Copper	L23-No0024721	CP	mg/kg	6.2	5.9	4.7	30%	Pass	
Lead	L23-No0024721	CP	mg/kg	1.6	1.5	6.3	30%	Pass	
Mercury	L23-No0024721	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass	
Nickel	L23-No0024721	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Zinc	L23-No0024721	CP	mg/kg	7.2	6.8	5.7	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	L23-No0024721	CP	%	< 1	< 1	<1	30%	Pass	
Duplicate									
OCOP in Soil				Result 1	Result 2	RPD			
Aldrin	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
alpha-BHC (HCH)	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
beta-BHC (HCH)	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
delta-BHC (HCH)	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Bifenthrin	L23-No0022230	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bromophos Ethyl	L23-No0022230	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlordane	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
Chlorpyrifos	L23-No0022230	NCP	mg/kg	< 0.02	< 0.02	<1	30%	Pass	

Duplicate								
OCOP in Soil				Result 1	Result 2	RPD		
Dieldrin	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
p.p-DDD	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
p.p-DDE	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
p.p-DDT	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
o.p-DDT	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Endosulfan I	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Endosulfan II	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Endosulfan Sulfate	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Endrin	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Heptachlor	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Heptachlor Epoxide	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Hexachlorobenzene (HCB)	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Lindane	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Methoxychlor	L23-No0022230	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Oxychlorane	L23-No0022230	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass
Diazinon	L23-No0022230	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	L23-No0022230	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Fenitrothion	L23-No0022230	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Malathion	L23-No0022230	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Trifluralin	L23-No0022230	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Carbamates in Soil				Result 1	Result 2	RPD		
Aminocarb	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb Sulfoxide	L23-No0024722	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Carbendazim	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Oxamyl	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb Sulfone	L23-No0024722	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Methomyl	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Fenuron/Fenuron TCA	L23-No0024722	CP	mg/kg	< 0.005	< 0.005	<1	30%	Pass
Thidiazuron	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb	L23-No0024722	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Bromacil	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Mexacarbate	L23-No0024722	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Monuron/Monuron TCA	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Propoxur	L23-No0024722	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Carbofuran	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Fluometuron	L23-No0024722	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Carbaryl	L23-No0024722	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Diuron	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Propachlor	L23-No0024722	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Siduron	L23-No0024722	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Methiocarb	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Linuron	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Neburon	L23-No0024722	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
NOx-N	L23-No0012739	NCP	mg/kg	1.7	1.7	2.1	20%	Pass
Total Kjeldahl Nitrogen	L23-No0024733	CP	mg/kg	170	150	13	20%	Pass
Phosphorus	L23-No0024733	CP	mg/kg	160	160	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	L23-No0026778	NCP	mg/kg	3.7	3.9	6.3	30%	Pass
Cadmium	L23-No0026778	NCP	mg/kg	0.3	0.3	<1	30%	Pass
Chromium	L23-No0026778	NCP	mg/kg	28	32	14	30%	Pass
Copper	L23-No0026778	NCP	mg/kg	190	210	7.3	30%	Pass
Lead	L23-No0026778	NCP	mg/kg	40	43	5.3	30%	Pass
Mercury	L23-No0026778	NCP	mg/kg	0.11	0.12	8.1	30%	Pass
Nickel	L23-No0026778	NCP	mg/kg	18	19	6.3	30%	Pass
Zinc	L23-No0026778	NCP	mg/kg	420	450	7.2	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	L23-No0024733	CP	%	1.1	< 1	13	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	L23-No0024739	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	L23-No0024739	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	L23-No0024743	CP	%	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Total Kjeldahl Nitrogen	L23-No0024746	CP	mg/kg	580	500	15	20%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	L23-No0024753	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Endrin aldehyde	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	L23-No0024753	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	L23-No0024753	CP	%	2.2	2.2	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	L23-No0024754	CP	%	1.6	1.8	11	30%	Pass
Duplicate								
Carbamates in Soil				Result 1	Result 2	RPD		
Aminocarb	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb Sulfoxide	L23-No0024754	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Carbendazim	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Oxamyl	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb Sulfone	L23-No0024754	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Methomyl	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Fenuron/Fenuron TCA	L23-No0024754	CP	mg/kg	< 0.005	< 0.005	<1	30%	Pass
Thidiazuron	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Aldicarb	L23-No0024754	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Bromacil	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Mexacarbate	L23-No0024754	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Monuron/Monuron TCA	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Propoxur	L23-No0024754	CP	mg/kg	< 0.004	< 0.004	<1	30%	Pass
Carbofuran	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Fluometuron	L23-No0024754	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Carbaryl	L23-No0024754	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Diuron	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Propachlor	L23-No0024754	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Siduron	L23-No0024754	CP	mg/kg	< 0.02	< 0.02	<1	30%	Pass
Methiocarb	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Linuron	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass
Neburon	L23-No0024754	CP	mg/kg	< 0.04	< 0.04	<1	30%	Pass

Comments

Sample Integrity

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

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Douglas Todd	Senior Analyst-Sample Properties
Kim Rodgers	Senior Analyst-Sample Properties
Patrick Patfield	Senior Analyst-Organic
Paul Nottle	Senior Analyst-Organic
Sam Becker	Senior Analyst-Inorganic
Sean Sangster	Senior Analyst-Metal



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

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.

Interim Report PEK0653

Client Details

Client	Galt Environmental Pty Ltd (WA)
Contact	Sarah Carter
Address	50 Edward Street, Osborne Park, WA, 6017

Sample Details

Your Reference	Wattleup - WAE230106
Number of Samples	3 Soil
Date Samples Received	09/11/2023
Date Instructions Received	09/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

PLEASE NOTE THAT THIS IS A PRELIMINARY REPORT AND THEREFORE DATA & INFORMATION THEREIN MAY BE ALTERED IN THE COMPLETE FINAL REPORT

Report Details

Date Results Requested by	17/11/2023
Date of Issue	17/11/2023

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Heram Halim, Operations Manager Lien Tang, Assistant Operations Manager Travis Carey, Organics Supervisor
Laboratory Manager	Michael Kubiak

Interim Report PEK0653

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PEK0653-01	QC04	Soil	01/11/2023	09/11/2023
PEK0653-02	QC14	Soil	02/11/2023	09/11/2023
PEK0653-03	QC12	Soil	02/11/2023	09/11/2023

Interim Report PEK0653

Organochlorine Pesticides (Soil)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK0653-01 QC04 01/11/2023	PEK0653-02 QC14 02/11/2023	PEK0653-03 QC12 02/11/2023
alpha-BHC	mg/kg	0.10	<0.10	<0.10	<0.10
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10	<0.10
beta-BHC	mg/kg	0.10	<0.10	<0.10	<0.10
gamma-BHC	mg/kg	0.10	<0.10	<0.10	<0.10
delta-BHC	mg/kg	0.10	<0.10	<0.10	<0.10
Heptachlor	mg/kg	0.10	<0.10	<0.10	<0.10
Aldrin	mg/kg	0.10	<0.10	<0.10	<0.10
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10	<0.10
trans-Chlordane	mg/kg	0.10	<0.10	<0.10	<0.10
cis-Chlordane	mg/kg	0.10	<0.10	<0.10	<0.10
Endosulfan I	mg/kg	0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.10	<0.10	<0.10	<0.10
Dieldrin	mg/kg	0.10	<0.10	<0.10	<0.10
Endrin	mg/kg	0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.10	<0.10	<0.10	<0.10
Endosulfan II	mg/kg	0.10	<0.10	<0.10	<0.10
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.10	<0.10	<0.10	<0.10
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10	<0.10
Endrin ketone	mg/kg	0.10	<0.10	<0.10	<0.10
Methoxychlor	mg/kg	0.10	<0.10	<0.10	<0.10
Mirex	mg/kg	0.10	<0.10	<0.10	<0.10
Total +ve OCP	mg/kg	0.10	<0.10	<0.10	<0.10
Surrogate 2-Chlorophenol-D4	%		89.5	96.9	95.3

Interim Report PEK0653

Organophosphorus Pesticides (Soil)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK0653-01 QC04 01/11/2023	PEK0653-02 QC14 02/11/2023	PEK0653-03 QC12 02/11/2023
Dichlorvos	mg/kg	0.10	<0.10	<0.10	<0.10
Dimethoate	mg/kg	0.10	<0.10	<0.10	<0.10
Diazinon	mg/kg	0.10	<0.10	<0.10	<0.10
Chlorpyrifos-methyl	mg/kg	0.10	<0.10	<0.10	<0.10
Ronnel	mg/kg	0.10	<0.10	<0.10	<0.10
Fenitrothion	mg/kg	0.10	<0.10	<0.10	<0.10
Malathion	mg/kg	0.10	<0.10	<0.10	<0.10
Chlorpyrifos	mg/kg	0.10	<0.10	<0.10	<0.10
Parathion	mg/kg	0.10	<0.10	<0.10	<0.10
Bromophos-ethyl	mg/kg	0.10	<0.10	<0.10	<0.10
Ethion	mg/kg	0.10	<0.10	<0.10	<0.10
Coumaphos	mg/kg	0.10	<0.10	<0.10	<0.10
Disulfoton	mg/kg	0.10	<0.10	<0.10	<0.10
Fenamiphos	mg/kg	0.10	<0.10	<0.10	<0.10
Fenthion	mg/kg	0.10	<0.10	<0.10	<0.10
Methidathion	mg/kg	0.10	<0.10	<0.10	<0.10
Mevinphos	mg/kg	0.10	<0.10	<0.10	<0.10
Parathion-methyl	mg/kg	0.10	<0.10	<0.10	<0.10
Phorate	mg/kg	0.10	<0.10	<0.10	<0.10
Phosalone	mg/kg	0.10	<0.10	<0.10	<0.10
Azinphos-methyl	mg/kg	0.10	<0.10	<0.10	<0.10
Surrogate 2-Chlorophenol-D4	%		89.5	96.9	95.3

Interim Report PEK0653

Carbamates (Soil)

Envirolab ID	Units	PQL	PEK0653-01	PEK0653-02	PEK0653-03
Your Reference			QC04	QC14	QC12
Date Sampled			01/11/2023	02/11/2023	02/11/2023
Molinate	mg/kg	0.50	<0.50	<0.50	<0.50
Carbofuran	mg/kg	0.50	<0.50	<0.50	<0.50
Carbaryl	mg/kg	0.50	<0.50	<0.50	<0.50
Surrogate <i>p</i> -Terphenyl-D14	%		85.2	97.0	97.2

Interim Report PEK0653

Acid Extractable Metals (Soil)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK0653-01 QC04 01/11/2023	PEK0653-02 QC14 02/11/2023	PEK0653-03 QC12 02/11/2023
Arsenic	mg/kg	4.0	4.7	<4.0	<4.0
Cadmium	mg/kg	0.40	<0.40	<0.40	<0.40
Chromium	mg/kg	1.0	14	1.3	1.4
Copper	mg/kg	1.0	5.8	3.4	2.8
Mercury	mg/kg	0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	1.0	<1.0	<1.0	<1.0
Phosphorus	mg/kg	10	210	84	160
Lead	mg/kg	1.0	2.7	1.0	1.5
Zinc	mg/kg	1.0	4.6	5.3	7.6

Interim Report PEK0653

Inorganics - Carbons, Nitrogen Species, Sulfur Species (Soil)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK0653-01 QC04 01/11/2023	PEK0653-02 QC14 02/11/2023	PEK0653-03 QC12 02/11/2023
Ammonia as N	mg/kg	0.50	1.2	1.6	1.1
Nitrate as N	mg/kg	0.50	<0.50	2.4	0.52
Nitrate as NO3 by calculation	mg/kg	3.0	<3.0	11	<3.0
Nitrite as N	mg/kg	0.50	<0.50	<0.50	<0.50
Nitrite as NO2 by calculation*	mg/kg	2.0	<2.0	<2.0	<2.0
NOx as N	mg/kg	0.50	0.68	2.7	0.58

Interim Report PEK0653

Inorganics - General Chemical Parameters (Soil)

Envirolab ID	Units	PQL	PEK0653-01	PEK0653-02	PEK0653-03
Your Reference			QC04	QC14	QC12
Date Sampled			01/11/2023	02/11/2023	02/11/2023
Phosphate as P	mg/kg	0.50	2.6	1.2	2.5

Interim Report PEK0653

Inorganics - Moisture (Soil)

Envirolab ID	Units	PQL	PEK0653-01	PEK0653-02	PEK0653-03
Your Reference			QC04	QC14	QC12
Date Sampled			01/11/2023	02/11/2023	02/11/2023
Moisture	%	0.10	1.2	1.4	2.5

Interim Report PEK0653

ASLP Extraction - RW (Soil)

Envirolab ID	Units	PQL	PEK0653-01	PEK0653-02	PEK0653-03
Your Reference			QC04	QC14	QC12
Date Sampled			01/11/2023	02/11/2023	02/11/2023
pH of final leachate	pH units		6.8	6.6	6.5

Interim Report PEK0653

ASLP Metals - RW (Soil)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK0653-01 QC04 01/11/2023	PEK0653-02 QC14 02/11/2023	PEK0653-03 QC12 02/11/2023
Arsenic	mg/L	0.050	<0.050	<0.050	<0.050
Cadmium	mg/L	0.010	<0.010	<0.010	<0.010
Chromium	mg/L	0.010	0.037	<0.010	<0.010
Copper	mg/L	0.010	<0.010	<0.010	<0.010
Mercury	mg/L	0.000050	<0.000050	<0.000050	<0.000050
Nickel	mg/L	0.020	<0.020	<0.020	<0.020
Lead	mg/L	0.030	<0.030	<0.030	<0.030
Zinc	mg/L	0.020	<0.020	<0.020	<0.020

Interim Report PEK0653

Method Summary

Method ID	Methodology Summary
INORG-004	Toxicity Characteristic Leaching Procedure (TCLP) based upon AS 4439 and USEPA 1311. Additional information as required in AS4439.3 section 10 can be provided on request. Please note that the mass used may be scaled down from the default based on the sample mass available.
INORG-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
INORG-055	Nitrate/Nitrite/NOx/TKN - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils/solids are analysed following a water extraction.
INORG-057	Ammonia - determined colourimetrically. Water samples are filtered on receipt prior to analysis. Soils and OHS media are analysed following a water extraction. Alternatively, Ammonia can be extracted from soil using 1M KCl.
INORG-060	Phosphate - determined colourimetrically using APHA latest edition 4500 P E. Water samples are filtered on receipt prior to analysis. Soils are analysed from a water extract.
METALS-020	Determination of various metals by ICP-OES.
METALS-020_NEUT	Determination of various metals by ICP-OES following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-021_NEUT	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
ORG-022	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-022_OC	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.

Interim Report PEK0653

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Interim Report PEK0653

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Interim Data Quality Assessment Summary PEK0653

Client Details

Client	Galt Environmental Pty Ltd (WA)
Your Reference	Wattleup - WAE230106
Date Issued	17/11/2023

Recommended Holding Time Compliance

Recommended holding time exceedances exist - See detailed list below

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Interim Data Quality Assessment Summary PEK0653

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
OCP Soil	1	01/11/2023	13/11/2023	14/11/2023	Yes
	2-3	02/11/2023	13/11/2023	14/11/2023	Yes
OPP (21 list) Soil	1	01/11/2023	13/11/2023	14/11/2023	Yes
	2-3	02/11/2023	13/11/2023	14/11/2023	Yes
Carbamates Soil	1	01/11/2023	13/11/2023	14/11/2023	Yes
	2-3	02/11/2023	13/11/2023	14/11/2023	Yes
Metals Soil	1	01/11/2023	13/11/2023	13/11/2023	Yes
	2-3	02/11/2023	13/11/2023	13/11/2023	Yes
Metals-Hg Soil	1	01/11/2023	13/11/2023	14/11/2023	Yes
	2-3	02/11/2023	13/11/2023	14/11/2023	Yes
Nitrogen - Ammonia Soil	1	01/11/2023	13/11/2023	16/11/2023	Yes
	2-3	02/11/2023	13/11/2023	16/11/2023	Yes
Nitrogen - Nitrate Soil	1	01/11/2023	13/11/2023	16/11/2023	Yes
	2-3	02/11/2023	13/11/2023	16/11/2023	Yes
Nitrogen - Nitrite Soil	1	01/11/2023	13/11/2023	16/11/2023	No
	2-3	02/11/2023	13/11/2023	16/11/2023	No
Nitrogen - NOx Soil	1	01/11/2023	13/11/2023	16/11/2023	No
	2-3	02/11/2023	13/11/2023	16/11/2023	No
Phosphate as P Soil	1	01/11/2023	13/11/2023	16/11/2023	No
	2-3	02/11/2023	13/11/2023	16/11/2023	No
Moisture Soil	1	01/11/2023	13/11/2023	14/11/2023	Yes
	2-3	02/11/2023	13/11/2023	14/11/2023	Yes
ASLP Extraction pH7 Soil	1	01/11/2023	13/11/2023	15/11/2023	Yes
	2-3	02/11/2023	13/11/2023	15/11/2023	Yes
ASLP Metals Soil	1	01/11/2023	14/11/2023	15/11/2023	Yes
	2-3	02/11/2023	14/11/2023	15/11/2023	Yes
ASLP Metals-Hg Soil	1	01/11/2023	14/11/2023	15/11/2023	Yes
	2-3	02/11/2023	14/11/2023	15/11/2023	Yes

Interim Data Quality Assessment Summary PEK0653

Outliers: Duplicates

INORG-008 | Inorganics - Moisture (Soil) | Batch BEK1341

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BEK1341-DUP1#	DUP1	Moisture	50.00	120[5]

METALS-020 | Acid Extractable Metals (Soil) | Batch BEK1346

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BEK1346-DUP1#	DUP1	Lead	40.00	56.6[4]
BEK1346-DUP1#	DUP1	Nickel	40.00	200[4]
BEK1346-DUP2#	DUP2	Chromium	40.00	46.6[4]
BEK1346-DUP3#	DUP3	Lead	40.00	57.5[4]

ORG-022_OC | Organochlorine Pesticides (Soil) | Batch BEK1350

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BEK1350-DUP2#	DUP2	Dieldrin	50.00	103[6]

Interim Data Quality Assessment Summary PEK0653

Outliers: Matrix Spike

METALS-020 | Acid Extractable Metals (Soil) | Batch BEK1346

Sample ID	Analyte	% Limits	% Recovery
BEK1346-MS1#	Lead	70 - 130	179[1]

ORG-022 | Carbamates (Soil) | Batch BEK1350

Sample ID	Analyte	% Limits	% Recovery
BEK1350-MS2#	p-Terphenyl-D14	60 - 140	##[3]

ORG-022 | Organophosphorus Pesticides (Soil) | Batch BEK1350

Sample ID	Analyte	% Limits	% Recovery
BEK1350-MS2#	Chlorpyrifos	60 - 140	##[2]
BEK1350-MS2#	Chlorpyrifos-methyl	60 - 140	##[2]
BEK1350-MS2#	Ethion	60 - 140	##[2]
BEK1350-MS2#	Malathion	60 - 140	##[2]
BEK1350-MS2#	Parathion	60 - 140	##[2]

ORG-022_OC | Organochlorine Pesticides (Soil) | Batch BEK1350

Sample ID	Analyte	% Limits	% Recovery
BEK1350-MS2#	4,4'-DDD	60 - 140	##[2]
BEK1350-MS2#	beta-BHC	60 - 140	##[2]
BEK1350-MS2#	Dieldrin	60 - 140	##[2]
BEK1350-MS2#	Endosulfan sulfate	60 - 140	##[2]
BEK1350-MS2#	Endrin	60 - 140	##[2]
BEK1350-MS2#	Heptachlor	60 - 140	##[2]

Interim Quality Control PEK0653

ORG-022_OC | Organochlorine Pesticides (Soil) | Batch BEK1350

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK1350-DUP1#	BEK1350-DUP2#		BEK1350-MS2#
				Samp QC RPD %	Samp QC RPD %		
alpha-BHC	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	90.0	102
Hexachlorobenzene	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
beta-BHC	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	85.9	##[2]
gamma-BHC	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
delta-BHC	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Heptachlor	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	69.4	##[2]
Aldrin	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	102	92.0
Heptachlor epoxide	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	69.9	102
trans-Chlordane	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
cis-Chlordane	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Endosulfan I	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
4,4'-DDE	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	86.3	127
Dieldrin	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	0.105 0.329 103 [6]	80.4	##[2]
Endrin	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	72.2	##[2]
4,4'-DDD	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	106	##[2]
Endosulfan II	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Endrin aldehyde	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
4,4'-DDT	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Endosulfan sulfate	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	71.9	##[2]
Endrin ketone	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Methoxychlor	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Mirex	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Surrogate 2-Chlorophenol-D4	%		95.1	92.0 / 89.5	95.2 / 96.9	92.6	90.1

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Interim Quality Control PEK0653

ORG-022 | Organophosphorus Pesticides (Soil) | Batch BEK1350

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK1350-DUP1#	BEK1350-DUP2#		
				Samp QC RPD %	Samp QC RPD %		
Dichlorvos	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	108	117
Dimethoate	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Diazinon	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Chlorpyrifos-methyl	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	73.5	##[2]
Ronnel	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	75.2	72.3
Fenitrothion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	79.4	87.3
Malathion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	95.1	##[2]
Chlorpyrifos	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	88.8	##[2]
Parathion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	96.6	##[2]
Bromophos-ethyl	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Ethion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	89.9	##[2]
Coumaphos	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Disulfoton	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Fenamiphos	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Fenthion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Methidathion	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Mevinphos	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Parathion-methyl	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Phorate	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Phosalone	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Azinphos-methyl	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]	[NA]
Surrogate 2-Chlorophenol-D4	%		95.1	92.0 / 89.5	95.2 / 96.9	92.6	90.1

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022 | Carbamates (Soil) | Batch BEK1350

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK1350-DUP1#	BEK1350-DUP2#		
				Samp QC RPD %	Samp QC RPD %		
Molinate	mg/kg	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	[NA]	[NA]
Carbofuran	mg/kg	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	93.0	84.4
Carbaryl	mg/kg	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	[NA]	[NA]
Surrogate p-Terphenyl-D14	%		86.8	90.5 / 88.2	91.5 / 94.6	85.3	##[3]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Interim Quality Control PEK0653

METALS-020 | Acid Extractable Metals (Soil) | Batch BEK1346

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK1346-DUP1 # Samp QC RPD %	BEK1346-DUP2 # Samp QC RPD %		
Arsenic	mg/kg	4.0	<4.0	<4.0 <4.0 [NA]	<4.0 <4.0 [NA]	94.2	96.2
Cadmium	mg/kg	0.40	<0.40	<0.40 <0.40 [NA]	<0.40 <0.40 [NA]	94.4	86.6
Chromium	mg/kg	1.0	<1.0	3.97 3.34 17.4	29.4 18.3 46.6 [4]	99.4	98.0
Copper	mg/kg	1.0	<1.0	2.31 1.91 19.0	14.0 16.5 16.4	105	107
Lead	mg/kg	1.0	<1.0	93.4 52.2 56.6 [4]	20.8 15.6 28.4	95.7	179[1]
Mercury	mg/kg	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	115	117
Nickel	mg/kg	1.0	<1.0	1.17 <1.0 200 [4]	4.66 4.15 11.5	97.9	92.9
Phosphorus	mg/kg	10	<10	47.4 34.3 32.1	337 331 1.94	94.6	112
Zinc	mg/kg	1.0	<1.0	4.92 3.42 36.0	14.6 19.5 28.7	97.4	88.2

Analyte	Units	PQL	Blank	DUP3	DUP4	LCS %
				BEK1346-DUP3 # Samp QC RPD %	BEK1346-DUP4 # Samp QC RPD %	
Arsenic	mg/kg	4		<4.0 <4.0 [NA]	<4.0 <4.0 [NA]	[NA]
Cadmium	mg/kg	0.4		<0.40 <0.40 [NA]	<0.40 <0.40 [NA]	[NA]
Chromium	mg/kg	1		3.97 4.22 5.93	29.4 26.2 11.5	[NA]
Copper	mg/kg	1		2.31 2.58 10.9	14.0 13.9 0.547	[NA]
Lead	mg/kg	1		93.4 51.6 57.5 [4]	20.8 18.5 12.0	[NA]
Mercury	mg/kg	0.1		<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	[NA]
Nickel	mg/kg	1		1.17 1.22 3.74	4.66 4.61 1.15	[NA]
Phosphorus	mg/kg	10		47.4 43.1 9.49	337 379 11.8	[NA]
Zinc	mg/kg	1		4.92 5.01 1.74	14.6 16.4 11.8	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-055 | Inorganics - Carbons, Nitrogen Species, Sulfur Species (Soil) | Batch BEK1447

Analyte	Units	PQL	Blank	DUP1	LCS %	Spike %
				PEK0653-01 Samp QC RPD %		
Nitrate as N	mg/kg	0.50	<0.50	<0.50 <0.50 [NA]	96.6	102
Nitrate as NO3 by calculation	mg/kg	3.0	<3.0		[NA]	[NA]
Nitrite as N	mg/kg	0.50	<0.50	<0.50 <0.50 [NA]	[NA]	[NA]
Nitrite as NO2 by calculation	mg/kg	2.0	<2.0		[NA]	[NA]
NOx as N	mg/kg	0.50	<0.50	0.677 0.538 22.9	96.6	97.8

Analyte	Units	PQL	Blank	LCS %	Spike %
Nitrite as N	mg/kg	0.5		98.7	93.5

INORG-057 | Inorganics - Carbons, Nitrogen Species, Sulfur Species (Soil) | Batch BEK1448

Analyte	Units	PQL	Blank	DUP1	LCS %	Spike %
				PEK0653-01 Samp QC RPD %		
Ammonia as N	mg/kg	0.50	<0.50	1.18 1.12 5.54	89.7	87.6

INORG-060 | Inorganics - General Chemical Parameters (Soil) | Batch BEK1447

Analyte	Units	PQL	Blank	DUP1	LCS %	Spike %
				PEK0653-01 Samp QC RPD %		
Phosphate as P	mg/kg	0.50	<0.50	2.61 3.39 26.1	95.4	70.1

Interim Quality Control PEK0653

INORG-008 | Inorganics - Moisture (Soil) | Batch BEK1341

Analyte	Units	PQL	Blank	DUP1 BEK1341-DUP1# Samp QC RPD %	DUP2 BEK1341-DUP2# Samp QC RPD %	LCS %
Moisture	%	0.1		0.140 0.560 120 [5]	6.79 4.21 46.9	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-004 | ASLP Extraction - RW (Soil) | Batch BEK1340

Analyte	Units	PQL	Blank	DUP1 PEK0653-01 Samp QC RPD %	LCS %
pH of final leachate	pH units		4.72	6.84 6.99 2.17	102

METALS-020_NEUT | ASLP Metals - RW (Soil) | Batch BEK1546

Analyte	Units	PQL	Blank	DUP1 PEK0653-01 Samp QC RPD %	DUP2 PEK0653-01 Samp QC RPD %	LCS %	Spike % PEK0653-02
Arsenic	mg/L	0.050	<0.050	<0.050 <0.050 [NA]	<0.050 <0.050 [NA]	104	102
Cadmium	mg/L	0.010	<0.010	<0.010 <0.010 [NA]	<0.010 <0.010 [NA]	107	104
Chromium	mg/L	0.010	<0.010	0.0365 0.0373 2.17	0.0365 0.0371 1.49	94.4	92.1
Copper	mg/L	0.010	<0.010	<0.010 <0.010 [NA]	<0.010 <0.010 [NA]	93.6	92.5
Lead	mg/L	0.030	<0.030	<0.030 <0.030 [NA]	<0.030 <0.030 [NA]	94.8	92.9
Nickel	mg/L	0.020	<0.020	<0.020 <0.020 [NA]	<0.020 <0.020 [NA]	95.9	95.2
Zinc	mg/L	0.020	<0.020	<0.020 <0.020 [NA]	<0.020 <0.020 [NA]	98.9	93.9

METALS-021_NEUT | ASLP Metals - RW (Soil) | Batch BEK1547

Analyte	Units	PQL	Blank	DUP1 PEK0653-01 Samp QC RPD %	DUP2 PEK0653-01 Samp QC RPD %	LCS %	Spike % PEK0653-02
Mercury	mg/L	0.000050	<0.000050	<0.000050 <0.000050 [NA]	<0.000050 <0.000050 [NA]	96.0	93.2

QC Comments

Identifier	Description
[1]	Spike recovery is outside routine acceptance criteria (70-130%), this may be due to suspected non-homogeneity and/or matrix interference effects. However, an acceptable recovery was achieved for the LCS.
[2]	Spike recovery is outside routine acceptance criteria (60-140%). Where recoveries of <20% and >200% are attributable to matrix interference effects, there will be a high uncertainty associated with the parent result.
[3]	Surrogate recovery was outside routine acceptance criteria (60-140%) due to sample matrix effects. This may be due to the presence of carbon and/or other artefacts. An acceptable recovery was achieved for the LCS surrogates.
[4]	Duplicate analysis precision is/are outside acceptable %RPD, re-analysis indicates possible sample heterogeneity.
[5]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.
[6]	The laboratory duplicate RPD acceptance criteria has been exceeded. Sample heterogeneity is evident in the sample.

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



NATA Accredited
Accreditation Number 2377
Site Number 2370

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

Attention: - ALL SRA/Results

Report 1043004-L
Project name WATTLEUP
Project ID WAE230106
Received Date Nov 09, 2023

Client Sample ID			TP01/0.0	TP03/0.0	TP04/0.0	TP08/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23- No0024757	L23- No0024758	L23- No0024759	L23- No0024760
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	0.023	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.27	0.33	0.37	0.27
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.0	5.0	5.0

Client Sample ID			TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23- No0024761	L23- No0024762	L23- No0024763	L23- No0024764
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.34	0.27	0.30	0.26

Client Sample ID			TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024761	L23-No0024762	L23-No0024763	L23-No0024764
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 01, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.0	5.0	5.0

Client Sample ID			TP19/0.0	TP20/0.0	QC03	TP21/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024765	L23-No0024766	L23-No0024767	L23-No0024768
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 01, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	0.029	0.026	0.018	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	0.07	0.07	0.05	0.02
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.23	0.34	0.36	0.22
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.0	5.0	5.1

Client Sample ID			TP23/0.0	TP25/0.0	TP26/0.0	TP29/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024769	L23-No0024770	L23-No0024771	L23-No0024772
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	0.01	0.02	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.34	0.34	0.30	0.14
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.0	5.0	5.0

Client Sample ID			TP30/0.0	TP34/0.0	TP35/0.0	TP38/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024773	L23-No0024774	L23-No0024775	L23-No0024776
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 02, 2023	Nov 02, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.25	0.098	0.12	0.11
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.0	6.6	5.0

Client Sample ID			TP39/0.0	QC11	TP41/0.0	TP42/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024777	L23-No0024778	L23-No0024779	L23-No0024780
Date Sampled			Nov 02, 2023	Nov 02, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.11	0.33	0.17	0.26
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.0	5.1	5.0

Client Sample ID			TP45/0.0	TP48/0.0	TP51/0.0	TP53/0.0
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024781	L23-No0024782	L23-No0024783	L23-No0024784
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	0.005	mg/L	0.37	0.29	0.30	0.22
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.0	5.0	5.0

Client Sample ID			TP56/0.0	TP58/0.0	TP59/0.0	QC13
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			L23-No0024785	L23-No0024786	L23-No0024787	L23-No0024788
Date Sampled			Nov 03, 2023	Nov 03, 2023	Nov 03, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.0002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chromium	0.01	mg/L	0.03	G01< 0.01	G01< 0.01	G01< 0.01
Copper	0.001	mg/L	< 0.01	< 0.01	< 0.01	G01< 0.01
Lead	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.0001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.001	mg/L	< 0.01	< 0.01	< 0.01	G01< 0.01
Zinc	0.005	mg/L	0.41	0.32	0.38	0.16
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	n/a	n/a	n/a	n/a
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.0	5.1	5.0	5.0

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Metals M8	Welshpool	Nov 15, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
AUS Leaching Procedure	Welshpool	Nov 15, 2023	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbamates in Soil	Total Nitrogen	Carbamates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	TP01/0.0	Nov 01, 2023		Soil	L23-No0024721		X	X		X	X				X		
2	TP03/0.0	Nov 01, 2023		Soil	L23-No0024722		X			X	X	X		X	X		
3	TP04/0.0	Nov 01, 2023		Soil	L23-No0024723		X	X		X	X				X		
4	TP08/0.0	Nov 01, 2023		Soil	L23-No0024724		X	X		X	X				X		
5	TP09/0.0	Nov 01, 2023		Soil	L23-No0024725		X	X		X	X				X		
6	TP11/0.0	Nov 01, 2023		Soil	L23-No0024726		X			X	X	X		X	X		
7	TP14/0.0	Nov 01, 2023		Soil	L23-No0024727		X	X		X	X				X		
8	TP15/0.0	Nov 01, 2023		Soil	L23-No0024728		X	X		X	X				X		
9	TP19/0.0	Nov 01, 2023		Soil	L23-No0024729		X			X	X	X		X	X		
10	TP20/0.0	Nov 01, 2023		Soil	L23-No0024730		X	X		X	X				X		
11	QC01	Nov 01, 2023		Water	L23-No0024731					X			X			X	X
12	QC02	Nov 01, 2023		Water	L23-No0024732					X			X			X	X
13	QC03	Nov 01, 2023		Soil	L23-No0024733		X			X	X	X		X	X		

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
14	TP21/0.0	Nov 02, 2023		Soil	L23-No0024734		X			X	X	X		X	X		
15	TP23/0.0	Nov 02, 2023		Soil	L23-No0024735		X	X		X	X				X		
16	TP25/0.0	Nov 02, 2023		Soil	L23-No0024736		X	X		X	X				X		
17	TP26/0.0	Nov 02, 2023		Soil	L23-No0024737		X			X	X	X		X	X		
18	TP29/0.0	Nov 02, 2023		Soil	L23-No0024738		X	X		X	X				X		
19	TP30/0.0	Nov 02, 2023		Soil	L23-No0024739		X	X		X	X				X		
20	TP34/0.0	Nov 02, 2023		Soil	L23-No0024740		X			X	X	X		X	X		
21	TP35/0.0	Nov 02, 2023		Soil	L23-No0024741		X	X		X	X				X		
22	TP38/0.0	Nov 02, 2023		Soil	L23-No0024742		X	X		X	X				X		
23	TP39/0.0	Nov 02, 2023		Soil	L23-No0024743		X	X		X	X				X		
24	QC10	Nov 02, 2023		Water	L23-No0024744					X			X			X	X
25	QC11	Nov 02, 2023		Soil	L23-No0024745		X			X	X	X		X	X		
26	TP41/0.0	Nov 03, 2023		Soil	L23-No0024746		X	X		X	X				X		
27	TP42/0.0	Nov 03, 2023		Soil	L23-No0024747		X	X		X	X				X		
28	TP45/0.0	Nov 03, 2023		Soil	L23-No0024748		X			X	X	X		X	X		

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
29	TP48/0.0	Nov 03, 2023		Soil	L23-No0024749		X	X		X	X				X		
30	TP51/0.0	Nov 03, 2023		Soil	L23-No0024750		X	X		X	X				X		
31	TP53/0.0	Nov 03, 2023		Soil	L23-No0024751		X			X	X	X		X	X		
32	TP56/0.0	Nov 03, 2023		Soil	L23-No0024752		X	X		X	X				X		
33	TP58/0.0	Nov 03, 2023		Soil	L23-No0024753		X	X		X	X				X		
34	TP59/0.0	Nov 03, 2023		Soil	L23-No0024754		X			X	X	X		X	X		
35	QC13	Nov 03, 2023		Soil	L23-No0024755		X			X	X	X		X	X		
36	QC15	Nov 03, 2023		Water	L23-No0024756					X			X			X	X
37	TP01/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024757				X	X							
38	TP03/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024758				X	X							
39	TP04/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024759				X	X							
40	TP08/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024760				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
41	TP09/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024761				X	X							
42	TP11/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024762				X	X							
43	TP14/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024763				X	X							
44	TP15/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024764				X	X							
45	TP19/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024765				X	X							
46	TP20/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024766				X	X							
47	QC03	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024767				X	X							
48	TP21/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024768				X	X							
49	TP23/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024769				X	X							

Company Name: Galt Environment P/L
Address: 50 Edward Street
Osborne Park
WA 6017
Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
50	TP25/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024770				X	X							
51	TP26/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024771				X	X							
52	TP29/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024772				X	X							
53	TP30/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024773				X	X							
54	TP34/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024774				X	X							
55	TP35/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024775				X	X							
56	TP38/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024776				X	X							
57	TP39/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024777				X	X							
58	QC11	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024778				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rourke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
59	TP41/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024779				X	X							
60	TP42/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024780				X	X							
61	TP45/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024781				X	X							
62	TP48/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024782				X	X							
63	TP51/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024783				X	X							
64	TP53/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024784				X	X							
65	TP56/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024785				X	X							
66	TP58/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024786				X	X							
67	TP59/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024787				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
68	QC13	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024788				X	X							
69	TP57/0.0	Not Provided		Soil	L23-No0024789	X											
Test Counts						1	32	20	32	68	32	12	4	13	32	4	4

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.
- 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 unless otherwise stated.
- 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.
- 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 date of sampling; 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 7 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	µg/L: micrograms per litre
ppm: parts per million	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		

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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only 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%

PFAS field samples that contain surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported, have been 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	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L23-No0014572	NCP	mg/L	0.009	0.008	5.1	30%	Pass	
Cadmium	L23-No0014572	NCP	mg/L	0.0014	0.0013	8.7	30%	Pass	
Chromium	L23-No0014572	NCP	mg/L	0.99	0.94	5.0	30%	Pass	
Copper	L23-No0014572	NCP	mg/L	0.14	0.13	5.1	30%	Pass	
Lead	L23-No0014572	NCP	mg/L	0.10	0.092	9.3	30%	Pass	
Mercury	L23-No0014572	NCP	mg/L	0.0001	0.0001	13	30%	Pass	
Nickel	L23-No0014572	NCP	mg/L	0.23	0.22	5.3	30%	Pass	
Zinc	L23-No0014572	NCP	mg/L	0.74	0.75	1.5	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
G01	The LORs have been raised due to matrix interference

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Sam Becker	Senior Analyst-Sample Properties



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

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.

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



NATA Accredited
Accreditation Number 2377
Site Number 2370

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

Attention: - ALL SRA/Results

Report 1043004-W
Project name WATTLEUP
Project ID WAE230106
Received Date Nov 09, 2023

Client Sample ID			QC01	QC02	QC10	QC15
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L23- No0024731	L23- No0024732	L23- No0024744	L23- No0024756
Date Sampled			Nov 01, 2023	Nov 01, 2023	Nov 02, 2023	Nov 03, 2023
Test/Reference	LOR	Unit				
OCOP in Water						
Aldrin	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
alpha-BHC (HCH)	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
beta-BHC (HCH)	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
delta-BHC (HCH)	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Bifenthrin	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Bromophos Ethyl	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Chlordane	0.002	ug/L	< 0.002	< 0.002	< 0.002	< 0.002
Chlorothalonil	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Chlorpyrifos	0.005	ug/L	< 0.005	< 0.005	< 0.005	< 0.005
Diazinon	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Dieldrin	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Endosulfan I	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Endosulfan II	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Endosulfan Sulfate	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Endrin	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Ethion	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Fenitrothion	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Fipronil	0.02	ug/L	< 0.02	< 0.02	< 0.02	< 0.02
Hexachlorobenzene (HCB)	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Heptachlor Epoxide	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Heptachlor	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Lindane	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Malathion	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.02	ug/L	< 0.02	< 0.02	< 0.02	< 0.02
o.p-DDT	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Oxychlordane	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
p.p-DDD	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
p.p-DDE	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
p.p-DDT	0.001	ug/L	< 0.001	< 0.001	< 0.001	< 0.001
Parathion Ethyl	0.02	ug/L	< 0.02	< 0.02	< 0.02	< 0.02
Parathion Methyl	0.02	ug/L	< 0.02	< 0.02	< 0.02	< 0.02
Trifluralin	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Vinclozolin	0.02	ug/L	< 0.02	< 0.02	< 0.02	< 0.02

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	QC01 Water L23- No0024731 Nov 01, 2023	QC02 Water L23- No0024732 Nov 01, 2023	QC10 Water L23- No0024744 Nov 02, 2023	QC15 Water L23- No0024756 Nov 03, 2023
Carbamates						
Aldicarb	1	ug/L	< 1	< 1	< 1	< 1
Aldicarb Sulfone	1	ug/L	< 1	< 1	< 1	< 1
Aldicarb Sulfoxide	1	ug/L	< 1	< 1	< 1	< 1
Aminocarb	1	ug/L	< 1	< 1	< 1	< 1
Bromacil	2	ug/L	< 2	< 2	< 2	< 2
Carbaryl	4	ug/L	< 4	< 4	< 4	< 4
Carbendazim	1	ug/L	< 1	< 1	< 1	< 1
Carbofuran	1	ug/L	< 1	< 1	< 1	< 1
Diuron	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
EPTC	5	ug/L	< 5	< 5	< 5	< 5
Fenamiphos	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Fenuron/Fenuron TCA	2	ug/L	< 2	< 2	< 2	< 2
Fluometuron	1	ug/L	< 1	< 1	< 1	< 1
Linuron	5	ug/L	< 5	< 5	< 5	< 5
Methiocarb	4	ug/L	< 4	< 4	< 4	< 4
Methomyl	2	ug/L	< 2	< 2	< 2	< 2
Mexacarbate	1	ug/L	< 1	< 1	< 1	< 1
Monuron/Monuron TCA	2	ug/L	< 2	< 2	< 2	< 2
Oxamyl	2	ug/L	< 2	< 2	< 2	< 2
Propachlor	1	ug/L	< 1	< 1	< 1	< 1
Propham	5	ug/L	< 5	< 5	< 5	< 5
Propoxur	1	ug/L	< 1	< 1	< 1	< 1
Siduron	1	ug/L	< 1	< 1	< 1	< 1
NOx-N	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Total Kjeldahl Nitrogen	0.2	mg/L	< 0.2	< 0.2	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	< 0.2	< 0.2	< 0.2	< 0.2
Total Phosphorus	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Cadmium	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Zinc	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
OCOP in Water - Method: ARL No. 002 - OCOP and PCB in Water	Welshpool	Nov 15, 2023	7 Days
Carbamates - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15	Welshpool	Nov 15, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Nov 15, 2023	28 Days
NOx-N - Method: ARL313/319 - NOx in Water by Discrete Analyser	Welshpool	Nov 15, 2023	28 Days
Total Kjeldahl Nitrogen - Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP	Welshpool	Nov 10, 2023	28 Day
Total Nitrogen - Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP	Welshpool	Nov 15, 2023	28 Days
Total Phosphorus - Method: ARL308 - Total Phosphorus in Water by Discrete Analyser	Welshpool	Nov 15, 2023	28 Days



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rourke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbamates in Soil	Total Nitrogen	Carbamates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	TP01/0.0	Nov 01, 2023		Soil	L23-No0024721		X	X		X	X				X		
2	TP03/0.0	Nov 01, 2023		Soil	L23-No0024722		X			X	X	X		X	X		
3	TP04/0.0	Nov 01, 2023		Soil	L23-No0024723		X	X		X	X				X		
4	TP08/0.0	Nov 01, 2023		Soil	L23-No0024724		X	X		X	X				X		
5	TP09/0.0	Nov 01, 2023		Soil	L23-No0024725		X	X		X	X				X		
6	TP11/0.0	Nov 01, 2023		Soil	L23-No0024726		X			X	X	X		X	X		
7	TP14/0.0	Nov 01, 2023		Soil	L23-No0024727		X	X		X	X				X		
8	TP15/0.0	Nov 01, 2023		Soil	L23-No0024728		X	X		X	X				X		
9	TP19/0.0	Nov 01, 2023		Soil	L23-No0024729		X			X	X	X		X	X		
10	TP20/0.0	Nov 01, 2023		Soil	L23-No0024730		X	X		X	X				X		
11	QC01	Nov 01, 2023		Water	L23-No0024731					X			X			X	X
12	QC02	Nov 01, 2023		Water	L23-No0024732					X			X			X	X
13	QC03	Nov 01, 2023		Soil	L23-No0024733		X			X	X	X		X	X		



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
14	TP21/0.0	Nov 02, 2023		Soil	L23-No0024734		X			X	X	X		X	X		
15	TP23/0.0	Nov 02, 2023		Soil	L23-No0024735		X	X		X	X				X		
16	TP25/0.0	Nov 02, 2023		Soil	L23-No0024736		X	X		X	X				X		
17	TP26/0.0	Nov 02, 2023		Soil	L23-No0024737		X			X	X	X		X	X		
18	TP29/0.0	Nov 02, 2023		Soil	L23-No0024738		X	X		X	X				X		
19	TP30/0.0	Nov 02, 2023		Soil	L23-No0024739		X	X		X	X				X		
20	TP34/0.0	Nov 02, 2023		Soil	L23-No0024740		X			X	X	X		X	X		
21	TP35/0.0	Nov 02, 2023		Soil	L23-No0024741		X	X		X	X				X		
22	TP38/0.0	Nov 02, 2023		Soil	L23-No0024742		X	X		X	X				X		
23	TP39/0.0	Nov 02, 2023		Soil	L23-No0024743		X	X		X	X				X		
24	QC10	Nov 02, 2023		Water	L23-No0024744					X			X			X	X
25	QC11	Nov 02, 2023		Soil	L23-No0024745		X			X	X	X		X	X		
26	TP41/0.0	Nov 03, 2023		Soil	L23-No0024746		X	X		X	X				X		
27	TP42/0.0	Nov 03, 2023		Soil	L23-No0024747		X	X		X	X				X		
28	TP45/0.0	Nov 03, 2023		Soil	L23-No0024748		X			X	X	X		X	X		

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
29	TP48/0.0	Nov 03, 2023		Soil	L23-No0024749		X	X		X	X				X		
30	TP51/0.0	Nov 03, 2023		Soil	L23-No0024750		X	X		X	X				X		
31	TP53/0.0	Nov 03, 2023		Soil	L23-No0024751		X			X	X	X		X	X		
32	TP56/0.0	Nov 03, 2023		Soil	L23-No0024752		X	X		X	X				X		
33	TP58/0.0	Nov 03, 2023		Soil	L23-No0024753		X	X		X	X				X		
34	TP59/0.0	Nov 03, 2023		Soil	L23-No0024754		X			X	X	X		X	X		
35	QC13	Nov 03, 2023		Soil	L23-No0024755		X			X	X	X		X	X		
36	QC15	Nov 03, 2023		Water	L23-No0024756					X			X			X	X
37	TP01/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024757				X	X							
38	TP03/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024758				X	X							
39	TP04/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024759				X	X							
40	TP08/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024760				X	X							

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
41	TP09/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024761				X	X							
42	TP11/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024762				X	X							
43	TP14/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024763				X	X							
44	TP15/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024764				X	X							
45	TP19/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024765				X	X							
46	TP20/0.0	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024766				X	X							
47	QC03	Nov 01, 2023		AUS Leachate - pH 5.0	L23-No0024767				X	X							
48	TP21/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024768				X	X							
49	TP23/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024769				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
50	TP25/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024770				X	X							
51	TP26/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024771				X	X							
52	TP29/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024772				X	X							
53	TP30/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024773				X	X							
54	TP34/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024774				X	X							
55	TP35/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024775				X	X							
56	TP38/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024776				X	X							
57	TP39/0.0	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024777				X	X							
58	QC11	Nov 02, 2023		AUS Leachate - pH 5.0	L23-No0024778				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rourke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
59	TP41/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024779				X	X							
60	TP42/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024780				X	X							
61	TP45/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024781				X	X							
62	TP48/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024782				X	X							
63	TP51/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024783				X	X							
64	TP53/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024784				X	X							
65	TP56/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024785				X	X							
66	TP58/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024786				X	X							
67	TP59/0.0	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024787				X	X							



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1043004
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 9, 2023 2:00 PM
Due: Nov 16, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						HOLD	Phosphorus	Organochlorine Pesticides	AUS Leaching Procedure	Metals M8	Moisture Set	OCOP in Soil	OCOP in Water	Carbanates in Soil	Total Nitrogen	Carbanates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																	
68	QC13	Nov 03, 2023		AUS Leachate - pH 5.0	L23-No0024788				X	X							
69	TP57/0.0	Not Provided		Soil	L23-No0024789	X											
Test Counts						1	32	20	32	68	32	12	4	13	32	4	4

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.
- 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 unless otherwise stated.
- 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.
- 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 date of sampling; 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 7 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	µg/L: micrograms per litre
ppm: parts per million	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		

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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only 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%

PFAS field samples that contain surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported, have been 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							
OCOP in Water							
Aldrin	ug/L	< 0.001			0.001	Pass	
alpha-BHC (HCH)	ug/L	< 0.001			0.001	Pass	
beta-BHC (HCH)	ug/L	< 0.001			0.001	Pass	
delta-BHC (HCH)	ug/L	< 0.001			0.001	Pass	
Bifenthrin	ug/L	< 0.05			0.05	Pass	
Bromophos Ethyl	ug/L	< 0.005			0.005	Pass	
Chlordane	ug/L	< 0.002			0.002	Pass	
Chlorothalonil	ug/L	< 0.01			0.01	Pass	
Chlorpyrifos	ug/L	< 0.005			0.005	Pass	
Diazinon	ug/L	< 0.01			0.01	Pass	
Dieldrin	ug/L	< 0.001			0.001	Pass	
Endosulfan I	ug/L	< 0.001			0.001	Pass	
Endosulfan II	ug/L	< 0.001			0.001	Pass	
Endosulfan Sulfate	ug/L	< 0.001			0.001	Pass	
Endrin	ug/L	< 0.01			0.01	Pass	
Ethion	ug/L	< 0.01			0.01	Pass	
Fenitrothion	ug/L	< 0.01			0.01	Pass	
Fipronil	ug/L	< 0.02			0.02	Pass	
Hexachlorobenzene (HCB)	ug/L	< 0.001			0.001	Pass	
Heptachlor Epoxide	ug/L	< 0.001			0.001	Pass	
Heptachlor	ug/L	< 0.001			0.001	Pass	
Lindane	ug/L	< 0.001			0.001	Pass	
Malathion	ug/L	< 0.01			0.01	Pass	
Methoxychlor	ug/L	< 0.02			0.02	Pass	
o,p-DDT	ug/L	< 0.001			0.001	Pass	
Oxychlordane	ug/L	< 0.001			0.001	Pass	
p,p-DDD	ug/L	< 0.001			0.001	Pass	
p,p-DDE	ug/L	< 0.001			0.001	Pass	
p,p-DDT	ug/L	< 0.001			0.001	Pass	
Parathion Ethyl	ug/L	< 0.02			0.02	Pass	
Parathion Methyl	ug/L	< 0.02			0.02	Pass	
Trifluralin	ug/L	< 0.01			0.01	Pass	
Vinclozolin	ug/L	< 0.02			0.02	Pass	
Method Blank							
Carbamates							
Aldicarb	ug/L	< 1			1	Pass	
Aldicarb Sulfone	ug/L	< 1			1	Pass	
Aldicarb Sulfoxide	ug/L	< 1			1	Pass	
Aminocarb	ug/L	< 1			1	Pass	
Bromacil	ug/L	< 2			2	Pass	
Carbaryl	ug/L	< 4			4	Pass	
Carbendazim	ug/L	< 1			1	Pass	
Carbofuran	ug/L	< 1			1	Pass	
Diuron	ug/L	< 0.5			0.5	Pass	
EPTC	ug/L	< 5			5	Pass	
Fenamiphos	ug/L	< 0.1			0.1	Pass	
Fenuron/Fenuron TCA	ug/L	< 2			2	Pass	
Fluometuron	ug/L	< 1			1	Pass	
Linuron	ug/L	< 5			5	Pass	
Methiocarb	ug/L	< 4			4	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methomyl			ug/L	< 2			2	Pass	
Mexacarbate			ug/L	< 1			1	Pass	
Monuron/Monuron TCA			ug/L	< 2			2	Pass	
Oxamyl			ug/L	< 2			2	Pass	
Propachlor			ug/L	< 1			1	Pass	
Propham			ug/L	< 5			5	Pass	
Propoxur			ug/L	< 1			1	Pass	
Siduron			ug/L	< 1			1	Pass	
Method Blank									
NOx-N			mg/L	< 0.01			0.01	Pass	
Total Nitrogen			mg/L	< 0.2			0.2	Pass	
Total Phosphorus			mg/L	< 0.01			0.01	Pass	
Method Blank									
Heavy Metals									
Arsenic			mg/L	< 0.001			0.001	Pass	
Cadmium			mg/L	< 0.0001			0.0001	Pass	
Chromium			mg/L	< 0.001			0.001	Pass	
Copper			mg/L	< 0.001			0.001	Pass	
Lead			mg/L	< 0.001			0.001	Pass	
Mercury			mg/L	< 0.0001			0.0001	Pass	
Nickel			mg/L	< 0.001			0.001	Pass	
Zinc			mg/L	< 0.005			0.005	Pass	
LCS - % Recovery									
OCOP in Water									
Bifenthrin			%	120			60-120	Pass	
Endosulfan I			%	115			60-120	Pass	
Fipronil			%	82			60-120	Pass	
Malathion			%	105			60-120	Pass	
o,p-DDT			%	120			60-120	Pass	
Trifluralin			%	62			60-120	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	112			80-120	Pass	
Cadmium			%	100			80-120	Pass	
Chromium			%	95			80-120	Pass	
Copper			%	90			80-120	Pass	
Lead			%	92			80-120	Pass	
Mercury			%	99			80-120	Pass	
Nickel			%	91			80-120	Pass	
Zinc			%	94			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
NOx-N	L23-No0025213	NCP	%	101			80-120	Pass	
Spike - % Recovery									
				Result 1					
Arsenic	L23-No0024732	CP	%	111			75-125	Pass	
Cadmium	L23-No0024732	CP	%	107			75-125	Pass	
Chromium	L23-No0024732	CP	%	107			75-125	Pass	
Copper	L23-No0024732	CP	%	102			75-125	Pass	
Lead	L23-No0024732	CP	%	101			75-125	Pass	
Mercury	L23-No0024732	CP	%	111			75-125	Pass	
Nickel	L23-No0024732	CP	%	104			75-125	Pass	
Zinc	L23-No0024732	CP	%	105			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Carbamates				Result 1					
Aldicarb	L23-No0024756	CP	%	96			60-120	Pass	
Aldicarb Sulfone	L23-No0024756	CP	%	96			60-120	Pass	
Aldicarb Sulfoxide	L23-No0024756	CP	%	91			60-120	Pass	
Aminocarb	L23-No0024756	CP	%	98			60-120	Pass	
Bromacil	L23-No0024756	CP	%	117			60-120	Pass	
Carbaryl	L23-No0024756	CP	%	99			60-120	Pass	
Carbendazim	L23-No0024756	CP	%	101			60-120	Pass	
Carbofuran	L23-No0024756	CP	%	97			60-120	Pass	
Diuron	L23-No0024756	CP	%	91			60-120	Pass	
EPTC	L23-No0024756	CP	%	95			60-120	Pass	
Fenamiphos	L23-No0024756	CP	%	112			60-120	Pass	
Fenuron/Fenuron TCA	L23-No0024756	CP	%	98			60-120	Pass	
Fluometuron	L23-No0024756	CP	%	87			60-120	Pass	
Linuron	L23-No0024756	CP	%	94			60-120	Pass	
Methiocarb	L23-No0024756	CP	%	116			60-120	Pass	
Methomyl	L23-No0024756	CP	%	91			60-120	Pass	
Mexacarbate	L23-No0024756	CP	%	100			60-120	Pass	
Monuron/Monuron TCA	L23-No0024756	CP	%	102			60-120	Pass	
Oxamyl	L23-No0024756	CP	%	100			60-120	Pass	
Propachlor	L23-No0024756	CP	%	111			60-120	Pass	
Propham	L23-No0024756	CP	%	105			60-120	Pass	
Propoxur	L23-No0024756	CP	%	100			60-120	Pass	
Siduron	L23-No0024756	CP	%	96			60-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
NOx-N	L23-No0023778	NCP	mg/L	13	14	4.5	20%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	L23-No0023022	NCP	mg/L	0.002	0.002	<1	30%	Pass	
Cadmium	L23-No0023022	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium	L23-No0023022	NCP	mg/L	0.002	0.002	5.8	30%	Pass	
Copper	L23-No0023022	NCP	mg/L	0.002	0.002	<1	30%	Pass	
Lead	L23-No0023022	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	L23-No0023022	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	L23-No0023022	NCP	mg/L	0.001	0.001	10.0	30%	Pass	
Zinc	L23-No0023022	NCP	mg/L	0.020	0.020	3.1	30%	Pass	
Duplicate									
Carbamates				Result 1	Result 2	RPD			
Aldicarb	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Aldicarb Sulfone	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Aldicarb Sulfoxide	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Aminocarb	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Bromacil	L23-No0024744	CP	ug/L	< 2	< 2	<1	30%	Pass	
Carbaryl	L23-No0024744	CP	ug/L	< 4	< 4	<1	30%	Pass	
Carbendazim	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Carbofuran	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	
Diuron	L23-No0024744	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
EPTC	L23-No0024744	CP	ug/L	< 5	< 5	<1	30%	Pass	
Fenamiphos	L23-No0024744	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Fenuron/Fenuron TCA	L23-No0024744	CP	ug/L	< 2	< 2	<1	30%	Pass	
Fluometuron	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass	

Duplicate								
Carbamates				Result 1	Result 2	RPD		
Linuron	L23-No0024744	CP	ug/L	< 5	< 5	<1	30%	Pass
Methiocarb	L23-No0024744	CP	ug/L	< 4	< 4	<1	30%	Pass
Methomyl	L23-No0024744	CP	ug/L	< 2	< 2	<1	30%	Pass
Mexacarbate	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass
Monuron/Monuron TCA	L23-No0024744	CP	ug/L	< 2	< 2	<1	30%	Pass
Oxamyl	L23-No0024744	CP	ug/L	< 2	< 2	<1	30%	Pass
Propachlor	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass
Propham	L23-No0024744	CP	ug/L	< 5	< 5	<1	30%	Pass
Propoxur	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass
Siduron	L23-No0024744	CP	ug/L	< 1	< 1	<1	30%	Pass

Comments

Sample Integrity

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

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Paul Nottle	Senior Analyst-Organic
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

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.

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



NATA Accredited
Accreditation Number 2377
Site Number 2370

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

Attention: - ALL SRA/Results

Report 1045303-W
Project name WATTLEUP
Project ID WAE230106
Received Date Nov 17, 2023

Client Sample ID			MW01	MW02	MW03	QC19
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L23- No0042918	L23- No0042919	L23- No0042920	L23- No0042921
Date Sampled			Nov 15, 2023	Nov 15, 2023	Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4,4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4,4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4,4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchloroendate (surr.)	1	%	82	123	148	121
Tetrachloro-m-xylene (surr.)	1	%	68	135	89	81
Organophosphorus Pesticides						
Azinphos-methyl	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Bolstar	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chlorfenvinphos	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Chlorpyrifos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Chlorpyrifos-methyl	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Coumaphos	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Demeton-S	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	MW01 Water L23- No0042918 Nov 15, 2023	MW02 Water L23- No0042919 Nov 15, 2023	MW03 Water L23- No0042920 Nov 15, 2023	QC19 Water L23- No0042921 Nov 15, 2023
Organophosphorus Pesticides						
Demeton-O	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Diazinon	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dichlorvos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dimethoate	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Disulfoton	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
EPN	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Ethion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Ethoprop	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Ethyl parathion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Fenitrothion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Fensulfothion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Fenthion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Malathion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Merphos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Methyl parathion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Mevinphos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Monocrotophos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Naled	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Omethoate	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Phorate	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Pirimiphos-methyl	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Pyrazophos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Ronnel	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Terbufos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Tetrachlorvinphos	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Tokuthion	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Trichloronate	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Triphenylphosphate (surr.)	1	%	85	129	143	134
Carbamates						
Aldicarb	1	ug/L	< 1	< 1	< 1	< 1
Aldicarb Sulfone	1	ug/L	< 1	< 1	< 1	< 1
Aldicarb Sulfoxide	1	ug/L	< 1	< 1	< 1	< 1
Aminocarb	1	ug/L	< 1	< 1	< 1	< 1
Bromacil	2	ug/L	< 2	< 2	< 2	< 2
Carbaryl	4	ug/L	< 4	< 4	< 4	< 4
Carbendazim	1	ug/L	< 1	< 1	< 1	< 1
Carbofuran	1	ug/L	< 1	< 1	< 1	< 1
Diuron	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
EPTC	5	ug/L	< 5	< 5	< 5	< 5
Fenamiphos	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Fenuron/Fenuron TCA	2	ug/L	< 2	< 2	< 2	< 2
Fluometuron	1	ug/L	< 1	< 1	< 1	< 1
Linuron	5	ug/L	< 5	< 5	< 5	< 5
Methiocarb	4	ug/L	< 4	< 4	< 4	< 4
Methomyl	2	ug/L	< 2	< 2	< 2	< 2
Mexacarbate	1	ug/L	< 1	< 1	< 1	< 1
Monuron/Monuron TCA	2	ug/L	< 2	< 2	< 2	< 2
Oxamyl	2	ug/L	< 2	< 2	< 2	< 2
Propachlor	1	ug/L	< 1	< 1	< 1	< 1

Client Sample ID			MW01	MW02	MW03	QC19
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L23- No0042918	L23- No0042919	L23- No0042920	L23- No0042921
Date Sampled			Nov 15, 2023	Nov 15, 2023	Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit				
Carbamates						
Propham	5	ug/L	< 5	< 5	< 5	< 5
Propoxur	1	ug/L	< 1	< 1	< 1	< 1
Siduron	1	ug/L	< 1	< 1	< 1	< 1
NOx-N	0.01	mg/L	0.01	5.5	9.6	6.1
Total Kjeldahl Nitrogen	0.2	mg/L	4.4	< 0.2	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	4.4	5.5	9.6	6.1
Total Phosphorus	0.01	mg/L	0.49	0.05	0.33	0.05
Heavy Metals						
Arsenic	0.001	mg/L	0.004	0.002	< 0.001	0.002
Cadmium	0.0001	mg/L	0.0003	< 0.0001	< 0.0001	< 0.0001
Chromium	0.001	mg/L	0.28	0.032	0.027	0.023
Copper	0.001	mg/L	0.19	0.008	0.001	0.009
Lead	0.001	mg/L	0.014	0.015	0.047	0.013
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	0.0001	< 0.0001
Nickel	0.001	mg/L	0.091	0.008	0.002	0.008
Zinc	0.005	mg/L	0.24	0.015	0.007	0.016

Client Sample ID			QC20	QC21
Sample Matrix			Water	Water
Eurofins Sample No.			L23- No0042922	L23- No0042923
Date Sampled			Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002
4,4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002
4,4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002
4,4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002

Client Sample ID			QC20	QC21
Sample Matrix			Water	Water
Eurofins Sample No.			L23- No0042922	L23- No0042923
Date Sampled			Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002
Dibutylchlorendate (surr.)	1	%	147	95
Tetrachloro-m-xylene (surr.)	1	%	89	59
Organophosphorus Pesticides				
Azinphos-methyl	0.002	mg/L	< 0.002	< 0.002
Bolstar	0.002	mg/L	< 0.002	< 0.002
Chlorfenvinphos	0.02	mg/L	< 0.02	< 0.02
Chlorpyrifos	0.002	mg/L	< 0.002	< 0.002
Chlorpyrifos-methyl	0.002	mg/L	< 0.002	< 0.002
Coumaphos	0.02	mg/L	< 0.02	< 0.02
Demeton-S	0.002	mg/L	< 0.002	< 0.002
Demeton-O	0.002	mg/L	< 0.002	< 0.002
Diazinon	0.002	mg/L	< 0.002	< 0.002
Dichlorvos	0.002	mg/L	< 0.002	< 0.002
Dimethoate	0.002	mg/L	< 0.002	< 0.002
Disulfoton	0.002	mg/L	< 0.002	< 0.002
EPN	0.002	mg/L	< 0.002	< 0.002
Ethion	0.002	mg/L	< 0.002	< 0.002
Ethoprop	0.002	mg/L	< 0.002	< 0.002
Ethyl parathion	0.002	mg/L	< 0.002	< 0.002
Fenitrothion	0.002	mg/L	< 0.002	< 0.002
Fensulfothion	0.002	mg/L	< 0.002	< 0.002
Fenthion	0.002	mg/L	< 0.002	< 0.002
Malathion	0.002	mg/L	< 0.002	< 0.002
Merphos	0.002	mg/L	< 0.002	< 0.002
Methyl parathion	0.002	mg/L	< 0.002	< 0.002
Mevinphos	0.002	mg/L	< 0.002	< 0.002
Monocrotophos	0.002	mg/L	< 0.002	< 0.002
Naled	0.002	mg/L	< 0.002	< 0.002
Omethoate	0.02	mg/L	< 0.02	< 0.02
Phorate	0.002	mg/L	< 0.002	< 0.002
Pirimiphos-methyl	0.02	mg/L	< 0.02	< 0.02
Pyrazophos	0.002	mg/L	< 0.002	< 0.002
Ronnel	0.002	mg/L	< 0.002	< 0.002
Terbufos	0.002	mg/L	< 0.002	< 0.002
Tetrachlorvinphos	0.002	mg/L	< 0.002	< 0.002
Tokuthion	0.002	mg/L	< 0.002	< 0.002
Trichloronate	0.002	mg/L	< 0.002	< 0.002
Triphenylphosphate (surr.)	1	%	82	56
Carbamates				
Aldicarb	1	ug/L	< 1	< 1
Aldicarb Sulfone	1	ug/L	< 1	< 1
Aldicarb Sulfoxide	1	ug/L	< 1	< 1
Aminocarb	1	ug/L	< 1	< 1
Bromacil	2	ug/L	< 2	< 2
Carbaryl	4	ug/L	< 4	< 4
Carbendazim	1	ug/L	< 1	< 1
Carbofuran	1	ug/L	< 1	< 1

Client Sample ID			QC20	QC21
Sample Matrix			Water	Water
Eurofins Sample No.			L23- No0042922	L23- No0042923
Date Sampled			Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit		
Carbamates				
Diuron	0.5	ug/L	< 0.5	< 0.5
EPTC	5	ug/L	< 5	< 5
Fenamiphos	0.1	ug/L	< 0.1	< 0.1
Fenuron/Fenuron TCA	2	ug/L	< 2	< 2
Fluometuron	1	ug/L	< 1	< 1
Linuron	5	ug/L	< 5	< 5
Methiocarb	4	ug/L	< 4	< 4
Methomyl	2	ug/L	< 2	< 2
Mexacarbate	1	ug/L	< 1	< 1
Monuron/Monuron TCA	2	ug/L	< 2	< 2
Oxamyl	2	ug/L	< 2	< 2
Propachlor	1	ug/L	< 1	< 1
Propham	5	ug/L	< 5	< 5
Propoxur	1	ug/L	< 1	< 1
Siduron	1	ug/L	< 1	< 1
NOx-N	0.01	mg/L	< 0.01	< 0.01
Total Kjeldahl Nitrogen	0.2	mg/L	< 0.2	< 0.2
Total Nitrogen	0.2	mg/L	< 0.2	< 0.2
Total Phosphorus	0.01	mg/L	< 0.01	< 0.01
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0001	mg/L	< 0.0001	< 0.0001
Chromium	0.001	mg/L	< 0.001	< 0.001
Copper	0.001	mg/L	< 0.001	< 0.001
Lead	0.001	mg/L	< 0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001
Nickel	0.001	mg/L	< 0.001	< 0.001
Zinc	0.005	mg/L	< 0.005	< 0.005

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Nov 20, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Nov 20, 2023	7 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Carbamates	Welshpool	Nov 20, 2023	14 Days
- Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15			
Metals M8	Welshpool	Nov 20, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
NOx-N	Welshpool	Nov 20, 2023	28 Days
- Method: ARL313/319 - NOx in Water by Discrete Analyser			
Total Kjeldahl Nitrogen	Welshpool	Nov 17, 2023	28 Day
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Nitrogen	Welshpool	Nov 20, 2023	28 Days
- Method: ARL No. 330 - Persulfate Method for Simultaneous Determination of TN & TP			
Total Phosphorus	Welshpool	Nov 20, 2023	28 Days
- Method: ARL308 - Total Phosphorus in Water by Discrete Analyser			



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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Project Name: WATTLEUP
Project ID: WAE230106

Order No.: WAE230106
Report #: 1045303
Phone: 08 6272 0200
Fax: 08 9285 8444

Received: Nov 17, 2023 12:34 PM
Due: Nov 24, 2023
Priority: 5 Day
Contact Name: - ALL SRA/Results

Eurofins Analytical Services Manager : Natalie Hill

Sample Detail						Metals M8	Suite B14: OCP/OPP	Carbamates	Eurofins Suite B19A
Perth Laboratory - NATA # 2377 Site # 2370						X		X	X
Melbourne Laboratory - NATA # 1261 Site # 1254							X		
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MW01	Nov 15, 2023		Water	L23-No0042918	X	X	X	X
2	MW02	Nov 15, 2023		Water	L23-No0042919	X	X	X	X
3	MW03	Nov 15, 2023		Water	L23-No0042920	X	X	X	X
4	QC19	Nov 15, 2023		Water	L23-No0042921	X	X	X	X
5	QC20	Nov 15, 2023		Water	L23-No0042922	X	X	X	X
6	QC21	Nov 15, 2023		Water	L23-No0042923	X	X	X	X
Test Counts						6	6	6	6

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.
- 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 unless otherwise stated.
- 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.
- 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 date of sampling; 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 7 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	µg/L: micrograms per litre
ppm: parts per million	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		

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 like compound to the analyte target and reported as percentage recovery.
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 5.4
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 be used as a guide only 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%

PFAS field samples that contain surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported, have been 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							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4,4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDT	mg/L	< 0.0002			0.0002	Pass	
α-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
β-HCH	mg/L	< 0.0002			0.0002	Pass	
δ-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
γ-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/L	< 0.002			0.002	Pass	
Bolstar	mg/L	< 0.002			0.002	Pass	
Chlorfenvinphos	mg/L	< 0.02			0.02	Pass	
Chlorpyrifos	mg/L	< 0.002			0.002	Pass	
Chlorpyrifos-methyl	mg/L	< 0.002			0.002	Pass	
Coumaphos	mg/L	< 0.02			0.02	Pass	
Demeton-S	mg/L	< 0.002			0.002	Pass	
Demeton-O	mg/L	< 0.002			0.002	Pass	
Diazinon	mg/L	< 0.002			0.002	Pass	
Dichlorvos	mg/L	< 0.002			0.002	Pass	
Dimethoate	mg/L	< 0.002			0.002	Pass	
Disulfoton	mg/L	< 0.002			0.002	Pass	
EPN	mg/L	< 0.002			0.002	Pass	
Ethion	mg/L	< 0.002			0.002	Pass	
Ethoprop	mg/L	< 0.002			0.002	Pass	
Ethyl parathion	mg/L	< 0.002			0.002	Pass	
Fenitrothion	mg/L	< 0.002			0.002	Pass	
Fensulfathion	mg/L	< 0.002			0.002	Pass	
Fenthion	mg/L	< 0.002			0.002	Pass	
Malathion	mg/L	< 0.002			0.002	Pass	
Merphos	mg/L	< 0.002			0.002	Pass	
Methyl parathion	mg/L	< 0.002			0.002	Pass	
Mevinphos	mg/L	< 0.002			0.002	Pass	
Monocrotophos	mg/L	< 0.002			0.002	Pass	
Naled	mg/L	< 0.002			0.002	Pass	
Omethoate	mg/L	< 0.02			0.02	Pass	
Phorate	mg/L	< 0.002			0.002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pirimiphos-methyl	mg/L	< 0.02			0.02	Pass	
Pyrazophos	mg/L	< 0.002			0.002	Pass	
Ronnel	mg/L	< 0.002			0.002	Pass	
Terbufos	mg/L	< 0.002			0.002	Pass	
Tetrachlorvinphos	mg/L	< 0.002			0.002	Pass	
Tokuthion	mg/L	< 0.002			0.002	Pass	
Trichloronate	mg/L	< 0.002			0.002	Pass	
Method Blank							
Carbamates							
Aldicarb	ug/L	< 1			1	Pass	
Aldicarb Sulfone	ug/L	< 1			1	Pass	
Aldicarb Sulfoxide	ug/L	< 1			1	Pass	
Aminocarb	ug/L	< 1			1	Pass	
Bromacil	ug/L	< 2			2	Pass	
Carbaryl	ug/L	< 4			4	Pass	
Carbendazim	ug/L	< 1			1	Pass	
Carbofuran	ug/L	< 1			1	Pass	
Diuron	ug/L	< 0.5			0.5	Pass	
EPTC	ug/L	< 5			5	Pass	
Fenamiphos	ug/L	< 0.1			0.1	Pass	
Fenuron/Fenuron TCA	ug/L	< 2			2	Pass	
Fluometuron	ug/L	< 1			1	Pass	
Linuron	ug/L	< 5			5	Pass	
Methiocarb	ug/L	< 4			4	Pass	
Methomyl	ug/L	< 2			2	Pass	
Mexacarbate	ug/L	< 1			1	Pass	
Monuron/Monuron TCA	ug/L	< 2			2	Pass	
Oxamyl	ug/L	< 2			2	Pass	
Propachlor	ug/L	< 1			1	Pass	
Propham	ug/L	< 5			5	Pass	
Propoxur	ug/L	< 1			1	Pass	
Siduron	ug/L	< 1			1	Pass	
Method Blank							
NOx-N	mg/L	< 0.01			0.01	Pass	
Total Nitrogen	mg/L	< 0.2			0.2	Pass	
Total Phosphorus	mg/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0001			0.0001	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	108			70-130	Pass	
4,4'-DDD	%	101			70-130	Pass	
4,4'-DDE	%	80			70-130	Pass	
4,4'-DDT	%	83			70-130	Pass	
α-HCH	%	121			70-130	Pass	
Aldrin	%	129			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-HCH			%	114			70-130	Pass	
d-HCH			%	82			70-130	Pass	
Dieldrin			%	103			70-130	Pass	
Endosulfan I			%	123			70-130	Pass	
Endosulfan II			%	91			70-130	Pass	
Endosulfan sulphate			%	83			70-130	Pass	
Endrin			%	107			70-130	Pass	
Endrin aldehyde			%	103			70-130	Pass	
Endrin ketone			%	103			70-130	Pass	
g-HCH (Lindane)			%	107			70-130	Pass	
Heptachlor			%	114			70-130	Pass	
Heptachlor epoxide			%	104			70-130	Pass	
Hexachlorobenzene			%	112			70-130	Pass	
Methoxychlor			%	129			70-130	Pass	
LCS - % Recovery									
Organophosphorus Pesticides									
Diazinon			%	100			70-130	Pass	
Dimethoate			%	82			70-130	Pass	
Ethion			%	84			70-130	Pass	
Fenitrothion			%	82			70-130	Pass	
Methyl parathion			%	107			70-130	Pass	
Mevinphos			%	87			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	103			80-120	Pass	
Cadmium			%	94			80-120	Pass	
Chromium			%	95			80-120	Pass	
Copper			%	87			80-120	Pass	
Lead			%	90			80-120	Pass	
Mercury			%	96			80-120	Pass	
Nickel			%	88			80-120	Pass	
Zinc			%	91			80-120	Pass	
CRM - % Recovery									
NOx-N			%	107			80-120	Pass	
Total Nitrogen			%	92			80-120	Pass	
Total Phosphorus			%	98			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-No0038563	NCP	%	81			70-130	Pass	
4,4'-DDD	S23-No0038563	NCP	%	89			70-130	Pass	
4,4'-DDE	S23-No0038563	NCP	%	87			70-130	Pass	
4,4'-DDT	S23-No0038563	NCP	%	91			70-130	Pass	
a-HCH	S23-No0038563	NCP	%	81			70-130	Pass	
Aldrin	S23-No0038563	NCP	%	80			70-130	Pass	
b-HCH	S23-No0038563	NCP	%	96			70-130	Pass	
d-HCH	S23-No0038563	NCP	%	102			70-130	Pass	
Dieldrin	S23-No0038563	NCP	%	89			70-130	Pass	
Endosulfan I	S23-No0038563	NCP	%	84			70-130	Pass	
Endosulfan II	S23-No0038563	NCP	%	75			70-130	Pass	
Endosulfan sulphate	S23-No0038563	NCP	%	97			70-130	Pass	
Endrin	S23-No0038563	NCP	%	99			70-130	Pass	
Endrin aldehyde	S23-No0038563	NCP	%	80			70-130	Pass	
Endrin ketone	S23-No0038563	NCP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-HCH (Lindane)	S23-No0038563	NCP	%	88			70-130	Pass	
Heptachlor	S23-No0038563	NCP	%	91			70-130	Pass	
Heptachlor epoxide	S23-No0038563	NCP	%	90			70-130	Pass	
Hexachlorobenzene	S23-No0038563	NCP	%	88			70-130	Pass	
Methoxychlor	S23-No0038563	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M23-No0021430	NCP	%	106			70-130	Pass	
Dimethoate	M23-No0021430	NCP	%	86			70-130	Pass	
Ethion	M23-No0021430	NCP	%	114			70-130	Pass	
Fenitrothion	M23-No0021430	NCP	%	115			70-130	Pass	
Methyl parathion	M23-No0021430	NCP	%	111			70-130	Pass	
Mevinphos	M23-No0021430	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Carbamates				Result 1					
Aldicarb	L23-No0042918	CP	%	101			60-120	Pass	
Aldicarb Sulfone	L23-No0042918	CP	%	91			60-120	Pass	
Aldicarb Sulfoxide	L23-No0042918	CP	%	89			60-120	Pass	
Aminocarb	L23-No0042918	CP	%	90			60-120	Pass	
Bromacil	L23-No0042918	CP	%	98			60-120	Pass	
Carbaryl	L23-No0042918	CP	%	89			60-120	Pass	
Carbendazim	L23-No0042918	CP	%	90			60-120	Pass	
Carbofuran	L23-No0042918	CP	%	85			60-120	Pass	
Diuron	L23-No0042918	CP	%	85			60-120	Pass	
EPTC	L23-No0042918	CP	%	81			60-120	Pass	
Fenamiphos	L23-No0042918	CP	%	95			60-120	Pass	
Fenuron/Fenuron TCA	L23-No0042918	CP	%	95			60-120	Pass	
Fluometuron	L23-No0042918	CP	%	87			60-120	Pass	
Linuron	L23-No0042918	CP	%	96			60-120	Pass	
Methiocarb	L23-No0042918	CP	%	91			60-120	Pass	
Methomyl	L23-No0042918	CP	%	95			60-120	Pass	
Mexacarbate	L23-No0042918	CP	%	89			60-120	Pass	
Monuron/Monuron TCA	L23-No0042918	CP	%	92			60-120	Pass	
Oxamyl	L23-No0042918	CP	%	89			60-120	Pass	
Propachlor	L23-No0042918	CP	%	94			60-120	Pass	
Propham	L23-No0042918	CP	%	97			60-120	Pass	
Propoxur	L23-No0042918	CP	%	87			60-120	Pass	
Siduron	L23-No0042918	CP	%	85			60-120	Pass	
Spike - % Recovery									
				Result 1					
NOx-N	S23-No0049803	NCP	%	93			80-120	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	L23-No0042921	CP	%	110			75-125	Pass	
Cadmium	L23-No0042921	CP	%	102			75-125	Pass	
Chromium	L23-No0042921	CP	%	106			75-125	Pass	
Copper	L23-No0042921	CP	%	96			75-125	Pass	
Lead	L23-No0042921	CP	%	97			75-125	Pass	
Mercury	L23-No0042921	CP	%	110			75-125	Pass	
Nickel	L23-No0042921	CP	%	97			75-125	Pass	
Zinc	L23-No0042921	CP	%	100			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-No0044620	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-No0044620	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Bolstar	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorfenvinphos	M23-No0044620	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Chlorpyrifos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorpyrifos-methyl	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Coumaphos	M23-No0044620	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Demeton-S	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Demeton-O	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Diazinon	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dichlorvos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dimethoate	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Disulfoton	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
EPN	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethoprop	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethyl parathion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenitrothion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fensulfotthion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenthion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Malathion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Merphos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methyl parathion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Mevinphos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Monocrotophos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Naled	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Omethoate	M23-No0044620	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Phorate	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Pirimiphos-methyl	M23-No0044620	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Pyrazophos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Ronnel	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Terbufos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tetrachlorvinphos	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tokuthion	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Trichloronate	M23-No0044620	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
NOx-N	S23-No0049802	NCP	mg/L	< 0.01	< 0.01	<1	20%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	L23-No0042004	NCP	mg/L	0.002	0.002	5.6	30%	Pass
Cadmium	L23-No0042004	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Chromium	L23-No0042004	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper	L23-No0042004	NCP	mg/L	0.003	0.003	<1	30%	Pass
Lead	L23-No0042004	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury	L23-No0042004	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	L23-No0042004	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Zinc	L23-No0042004	NCP	mg/L	0.006	0.006	<1	30%	Pass
Duplicate								
Carbamates				Result 1	Result 2	RPD		
Aldicarb	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Aldicarb Sulfone	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Aldicarb Sulfoxide	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Aminocarb	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Bromacil	L23-No0042923	CP	ug/L	< 2	< 2	<1	30%	Pass
Carbaryl	L23-No0042923	CP	ug/L	< 4	< 4	<1	30%	Pass
Carbendazim	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Carbofuran	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Diuron	L23-No0042923	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
EPTC	L23-No0042923	CP	ug/L	< 5	< 5	<1	30%	Pass
Fenamiphos	L23-No0042923	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Fenuron/Fenuron TCA	L23-No0042923	CP	ug/L	< 2	< 2	<1	30%	Pass
Fluometuron	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Linuron	L23-No0042923	CP	ug/L	< 5	< 5	<1	30%	Pass
Methiocarb	L23-No0042923	CP	ug/L	< 4	< 4	<1	30%	Pass
Methomyl	L23-No0042923	CP	ug/L	< 2	< 2	<1	30%	Pass
Mexacarbate	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Monuron/Monuron TCA	L23-No0042923	CP	ug/L	< 2	< 2	<1	30%	Pass
Oxamyl	L23-No0042923	CP	ug/L	< 2	< 2	<1	30%	Pass
Propachlor	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Propham	L23-No0042923	CP	ug/L	< 5	< 5	<1	30%	Pass
Propoxur	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass
Siduron	L23-No0042923	CP	ug/L	< 1	< 1	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Natalie Hill	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Paul Nottle	Senior Analyst-Organic
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

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.

Certificate of Analysis PEK1349

Client Details

Client	Galt Environmental Pty Ltd (WA)
Contact	Sarah Carter
Address	50 Edward Street, Osborne Park, WA, 6017

Sample Details

Your Reference	Wattleup - WAE230106
Number of Samples	1 Water
Date Samples Received	17/11/2023
Date Instructions Received	17/11/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date Results Requested by	24/11/2023
Date of Issue	24/11/2023

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	Heram Halim, Operations Manager Lien Tang, Assistant Operations Manager Todd Lee, Group Operations Manager Travis Carey, Organics Supervisor
Laboratory Manager	Michael Kubiak

Certificate of Analysis PEK1349

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PEK1349-01	QC18	Water	15/11/2023	17/11/2023

Certificate of Analysis PEK1349

Organochlorine Pesticides (Water)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK1349-01 QC18 15/11/2023
alpha-BHC	µg/L	0.20	<0.20
Hexachlorobenzene	µg/L	0.20	<0.20
beta-BHC	µg/L	0.20	<0.20
gamma-BHC	µg/L	0.20	<0.20
delta-BHC	µg/L	0.20	<0.20
Heptachlor	µg/L	0.20	<0.20
Aldrin	µg/L	0.20	<0.20
Heptachlor epoxide	µg/L	0.20	<0.20
trans-Chlordane	µg/L	0.20	<0.20
cis-Chlordane	µg/L	0.20	<0.20
Endosulfan I	µg/L	0.20	<0.20
4,4'-DDE	µg/L	0.20	<0.20
Dieldrin	µg/L	0.20	<0.20
Endrin	µg/L	0.20	<0.20
4,4'-DDD	µg/L	0.20	<0.20
Endosulfan II	µg/L	0.20	<0.20
Endrin aldehyde	µg/L	0.20	<0.20
4,4'-DDT	µg/L	0.20	<0.20
Endosulfan sulfate	µg/L	0.20	<0.20
Endrin ketone	µg/L	0.20	<0.20
Methoxychlor	µg/L	0.20	<0.20
Mirex	µg/L	0.20	<0.20
Total +ve OCP	µg/L	0.20	<0.20
Surrogate 2-Chlorophenol-D4	%		78.0

Certificate of Analysis PEK1349

Organophosphorus Pesticides (Water)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK1349-01 QC18 15/11/2023
Dichlorvos	µg/L	0.20	<0.20
Dimethoate	µg/L	0.20	<0.20
Diazinon	µg/L	0.20	<0.20
Chlorpyrifos-methyl	µg/L	0.20	<0.20
Ronnel	µg/L	0.20	<0.20
Fenitrothion	µg/L	0.20	<0.20
Malathion	µg/L	0.20	<0.20
Chlorpyrifos	µg/L	0.20	<0.20
Parathion	µg/L	0.20	<0.20
Bromophos-ethyl	µg/L	0.20	<0.20
Ethion	µg/L	0.20	<0.20
Coumaphos	µg/L	0.20	<0.20
Disulfoton	µg/L	0.20	<0.20
Fenamiphos	µg/L	0.20	<0.20
Fenthion	µg/L	0.20	<0.20
Methidathion	µg/L	0.20	<0.20
Mevinphos	µg/L	0.20	<0.20
Parathion-methyl	µg/L	0.20	<0.20
Phorate	µg/L	0.20	<0.20
Phosalone	µg/L	0.20	<0.20
Azinphos-methyl	µg/L	0.20	<0.20
Surrogate 2-Chlorophenol-D4	%		78.0

Certificate of Analysis PEK1349

Carbamates (Water)

Envirolab ID	Units	PQL	PEK1349-01
Your Reference			QC18
Date Sampled			15/11/2023
Molinate	µg/L	0.50	<0.50
Carbofuran	µg/L	0.50	<0.50
Carbaryl	µg/L	0.50	<0.50
Surrogate <i>p</i> -Terphenyl-D14	%		56.9 [2]

Certificate of Analysis PEK1349

Acid Extractable Metals (Water)

Envirolab ID	Units	PQL	PEK1349-01
Your Reference			QC18
Date Sampled			15/11/2023
Phosphorus	mg/L	0.050	<0.050

Certificate of Analysis PEK1349

Dissolved Low Level Metals (Water)

Envirolab ID Your Reference Date Sampled	Units	PQL	PEK1349-01 QC18 15/11/2023
Arsenic	µg/L	1.0	<1.0
Cadmium	µg/L	0.10	<0.10
Chromium	µg/L	1.0	3.2
Copper	µg/L	1.0	<1.0
Mercury	µg/L	0.050	<0.050
Nickel	µg/L	1.0	4.2
Lead	µg/L	1.0	<1.0
Zinc	µg/L	1.0	9.7

Certificate of Analysis PEK1349

Inorganics - Nutrients (Water)

Envirolab ID	Units	PQL	PEK1349-01
Your Reference			QC18
Date Sampled			15/11/2023
NOx as N	mg/L	0.0050	5.8
TKN as N by calculation	mg/L	0.10	<0.10
Total Nitrogen	mg/L	0.10	5.8

Certificate of Analysis PEK1349

Result Comments

Identifier	Description
[2]	Surrogate recovery was low due to sample(s) emulsifying during liquid liquid extraction.

Certificate of Analysis PEK1349

Method Summary

Method ID	Methodology Summary
Calc - TKN	TKN determined by calculation (Total Nitrogen - NOx).
INORG-055	Nitrate/Nitrite/NOx/TKN - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils/solids are analysed following a water extraction.
INORG-127	Total Nitrogen by high temperature catalytic combustion with chemiluminescence detection. Organic Carbon forms (inorganic, organic, total) determined using a TOC/NDIR analyser via combustion. Dissolved forms require filtering prior to determination.
METALS-020	Determination of various metals by ICP-OES.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements.
ORG-022	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.
ORG-022_OC	Determination of semi-volatile organic compounds (SVOCs) by GC-MS. Water samples are extracted by LLE and soils using DCM/Acetone/Methanol.

Certificate of Analysis PEK1349

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

Surrogate Spike

Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

LCS (Laboratory Control Sample)

This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Matrix Spike

A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

Certificate of Analysis PEK1349

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria. Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction. Spikes for Physical and Aggregate Tests are not applicable. For VOCs in water samples, three vials are required for duplicate or spike analysis.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% - see ELN-P05 QAQC tables for details (available on request); <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary PEK1349

Client Details

Client	Galt Environmental Pty Ltd (WA)
Your Reference	Wattleup - WAE230106
Date Issued	24/11/2023

Recommended Holding Time Compliance

Recommended holding time exceedances exist - See detailed list below

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	No	Duplicate Outliers Exist - See detailed list below
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	Yes	No Outliers

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary PEK1349

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
OCP Water	1	15/11/2023	20/11/2023	20/11/2023	Yes
OPP (21 list) Water	1	15/11/2023	20/11/2023	20/11/2023	Yes
Carbamates Water	1	15/11/2023	20/11/2023	20/11/2023	Yes
Total Phosphorus Water	1	15/11/2023	20/11/2023	23/11/2023	Yes
Dissolved Metals (LL) Water	1	15/11/2023	20/11/2023	22/11/2023	Yes
Dissolved Metals (LL)-Hg Water	1	15/11/2023	20/11/2023	21/11/2023	Yes
Nitrogen - NOx Water	1	15/11/2023	21/11/2023	21/11/2023	No
Nitrogen - Total N Water	1	15/11/2023	20/11/2023	21/11/2023	Yes
TKN as N calc Water	1	15/11/2023	20/11/2023	24/11/2023	Yes

Outliers: Duplicates

METALS-022 | Dissolved Low Level Metals (Water) | Batch BEK2324

Sample ID	Duplicate ID	Analyte	% Limits	RPD
BEK2324-DUP2#	DUP2	Zinc	20.00	200[3]

Outliers: Matrix Spike

INORG-055 | Inorganics - Nutrients (Water) | Batch BEK2444

Sample ID	Analyte	% Limits	% Recovery
BEK2444-MS1#	NOx as N	70 - 130	##[1]

Outliers: Surrogate / Extracted Internal Standards

ORG-022 | Carbamates (Matrix) | Batch BEK2197

Sample ID	Analyte	% Limits	% Recovery
PEK1349-01	p-Terphenyl-D14	60 - 140	56.9% [2]

Quality Control PEK1349

ORG-022_OC | Organochlorine Pesticides (Water) | Batch BEK2197

Analyte	Units	PQL	Blank	DUP1			DUP2			LCS %	Spike %
				BEK2197-DUP1#			BEK2197-DUP2#				
				Samp	QC	RPD %	Samp	QC	RPD %		
alpha-BHC	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	79.1	86.5
Hexachlorobenzene	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
beta-BHC	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	77.0	82.1
gamma-BHC	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
delta-BHC	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Heptachlor	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	76.4	83.6
Aldrin	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	71.1	78.1
Heptachlor epoxide	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	81.9	88.9
trans-Chlordane	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
cis-Chlordane	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Endosulfan I	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
4,4'-DDE	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	81.4	88.2
Dieldrin	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	77.9	87.6
Endrin	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	82.7	92.6
4,4'-DDD	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	79.6	88.5
Endosulfan II	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Endrin aldehyde	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
4,4'-DDT	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Endosulfan sulfate	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	80.5	91.3
Endrin ketone	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Methoxychlor	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Mirex	µg/L	0.20	<0.20	<0.20	<0.20	[NA]	<0.20	<0.20	[NA]	[NA]	[NA]
Surrogate 2-Chlorophenol-D4	%		79.6	70.7/73.0			91.5/90.5			76.9	83.0

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

ORG-022 | Organophosphorus Pesticides (Water) | Batch BEK2197

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2197-DUP1#	BEK2197-DUP2#		BEK2197-MS2#
				Samp QC RPD %	Samp QC RPD %		
Dichlorvos	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	84.6	93.8
Dimethoate	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Diazinon	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Chlorpyrifos-methyl	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	74.9	84.1
Ronnel	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	72.4	79.3
Fenitrothion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	77.8	89.5
Malathion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	67.1	74.0
Chlorpyrifos	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	71.4	78.8
Parathion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	79.3	90.8
Bromophos-ethyl	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Ethion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	81.6	94.9
Coumaphos	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Disulfoton	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Fenamiphos	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Fenthion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Methidathion	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Mevinphos	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Parathion-methyl	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Phorate	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Phosalone	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Azinphos-methyl	µg/L	0.20	<0.20	<0.20 <0.20 [NA]	<0.20 <0.20 [NA]	[NA]	[NA]
Surrogate 2-Chlorophenol-D4	%		79.6	70.7 / 73.0	91.5 / 90.5	76.9	83.0

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PEK1349

ORG-022 | Carbamates (Water) | Batch BEK2197

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2197-DUP1# Samp QC RPD %	BEK2197-DUP2# Samp QC RPD %		
Molinate	µg/L	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	[NA]	[NA]
Carbofuran	µg/L	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	84.8	97.6
Carbaryl	µg/L	0.50	<0.50	<0.50 <0.50 [NA]	<0.50 <0.50 [NA]	[NA]	[NA]
Surrogate p-Terphenyl-D14	%		78.1	71.3 76.6	78.7 70.7	80.9	75.7

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020 | Acid Extractable Metals (Water) | Batch BEK2253

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2253-DUP1# Samp QC RPD %	BEK2253-DUP2# Samp QC RPD %		
Phosphorus	mg/L	0.050	<0.050	<0.050 <0.050 [NA]	0.574 0.572 0.283	104	102

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-021 | Dissolved Low Level Metals (Water) | Batch BEK2279

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2279-DUP1# Samp QC RPD %	BEK2279-DUP2# Samp QC RPD %		
Mercury	µg/L	0.050	<0.050	<0.050 <0.050 [NA]	<0.050 <0.050 [NA]	101	117

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022 | Dissolved Low Level Metals (Water) | Batch BEK2324

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2324-DUP1# Samp QC RPD %	BEK2324-DUP2# Samp QC RPD %		
Arsenic	µg/L	1.0	<1.0	<1.0 <1.0 [NA]	<1.0 <1.0 [NA]	112	104
Cadmium	µg/L	0.10	<0.10	<0.10 <0.10 [NA]	<0.10 <0.10 [NA]	113	105
Chromium	µg/L	1.0	<1.0	<1.0 <1.0 [NA]	<1.0 <1.0 [NA]	111	103
Copper	µg/L	1.0	<1.0	<1.0 <1.0 [NA]	<1.0 <1.0 [NA]	109	103
Lead	µg/L	1.0	<1.0	<1.0 <1.0 [NA]	<1.0 <1.0 [NA]	109	104
Nickel	µg/L	1.0	<1.0	<1.0 <1.0 [NA]	<1.0 <1.0 [NA]	108	99.7
Zinc	µg/L	1.0	<1.0	5.17 5.42 4.74	1.02 <1.0 200 [3]	107	102

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-127 | Inorganics - Nutrients (Water) | Batch BEK2264

Analyte	Units	PQL	Blank	DUP1	LCS %	Spike %
				BEK2264-DUP1# Samp QC RPD %		
Total Nitrogen	mg/L	0.10	<0.10	0.501 0.459 8.77	108	103

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-055 | Inorganics - Nutrients (Water) | Batch BEK2444

Analyte	Units	PQL	Blank	DUP1	DUP2	LCS %	Spike %
				BEK2444-DUP1# Samp QC RPD %	BEK2444-DUP2# Samp QC RPD %		
NOx as N	mg/L	0.0050	<0.0050	16.4 16.3 0.313	15.8 16.3 2.69	104	##[1]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PEK1349

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample ($>3\times$ spike level). However, the LCS recovery is within acceptance criteria.
[3]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are $<10\times$ PQL, the RPD acceptance criteria increases exponentially.

Appendix J: Soil Laboratory Results

Soil Analytical Results

Field ID		Date															
		TP01/0.0	TP03/0.0	TP04/0.0	TP08/0.0	TP09/0.0	TP11/0.0	TP14/0.0	TP15/0.0	TP19/0.0	TP20/0.0	TP21/0.0	TP23/0.0	TP25/0.0	TP26/0.0		
		01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	01 Nov 2023	02 Nov 2023	02 Nov 2023	02 Nov 2023	02 Nov 2023		
	Unit	EQL	NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	NEPM 2013 Table 1A(1) HILs Res A Soil													
NA																	
Aminocarb	MG/KG	0.04															
Fenuron/Fenuron TCA	MG/KG	0.005															
Thidiazuron	MG/KG	0.04															
Pesticides by LCMSMS (Positive																	
Siduron	mg/kg	0.02															
Carbamates																	
Methiocarb	mg/kg	0.04															
Fungicides																	
Carbendazim	mg/kg	0.04															
Halogenated Benzenes																	
Hexachlorobenzene	mg/kg	0.01		10													
Herbicides																	
Monuron	mg/kg	0.04															
Neburon	mg/kg	0.04															
Propachlor	mg/kg	0.02															
Bromacil	mg/kg	0.04															
Diuron	mg/kg	0.04															
Fluometuron	mg/kg	0.02															
Linuron	mg/kg	0.04															
Trifluralin	mg/kg	0.2															
Inorganics																	
Nitrite + Nitrate as N	mg/kg	1															
Kjeldahl Nitrogen Total	mg/kg	10															
Moisture Content (dried @ 103°C)	%	1															
Nitrogen (Total)	mg/kg	10															
Total Phosphorus (Organic Phosphate)	mg/kg	1															
Metals																	
Arsenic	mg/kg	2	100	100													
Cadmium	mg/kg	0.1		20													
Chromium (III+VI)	mg/kg	1															
Copper	mg/kg	1		6,000													
Lead	mg/kg	1		300													
Mercury	mg/kg	0.02		40													
Nickel	mg/kg	1		400													
Zinc	mg/kg	5		7,400													
Organochlorine Pesticides																	
Organochlorine pesticides EPAVic	mg/kg	0.1															
Other organochlorine pesticides EPAVic	mg/kg	0.1															
2,4-DDT	mg/kg	0.01															
4,4-DDE	mg/kg	0.01															
a-BHC	mg/kg	0.01															
Aldrin	mg/kg	0.01															
Aldrin + Dieldrin	mg/kg	0.05		6													
b-BHC	mg/kg	0.01															
Chlordane	mg/kg	0.01		50													
d-BHC	mg/kg	0.01															
DDD	mg/kg	0.01															
DDT	mg/kg	0.01	180														
DDT+DDE+DDD	mg/kg	0.05		240													
Dieldrin	mg/kg	0.01															
Endosulfan I	mg/kg	0.01															
Endosulfan II	mg/kg	0.01															
Endosulfan sulphate	mg/kg	0.01															
Endrin	mg/kg	0.01		10													
Endrin aldehyde	mg/kg	0.05															
Endrin ketone	mg/kg	0.05															
g-BHC (Lindane)	mg/kg	0.01															
Heptachlor	mg/kg	0.01		6													
Heptachlor epoxide	mg/kg	0.01															
Methoxychlor	mg/kg	0.05		300													
Oxychlordane	mg/kg	0.01		20													
Toxaphene	mg/kg	0.5															
Organophosphorous Pesticides																	
Chlorpyrifos	mg/kg	0.02		160													
Diazinon	mg/kg	0.2															
Ethion	mg/kg	0.05															
Fenitrothion	mg/kg	0.1															
Malathion	mg/kg	0.1															
Pesticides																	
Mexacarbate	mg/kg	0.02															
Aldicarb sulfoxide	mg/kg	0.004															
Aldicarb	mg/kg	0.004															
Aldicarb sulfone	mg/kg	0.02															
Baygon	mg/kg	0.004															
Bifenthrin	mg/kg	0.2		600													
Bromophos	mg/kg	0.05															
Carbaryl	mg/kg	0.05															
Carbofuran	mg/kg	0.04															
Methomyl	mg/kg	0.04															
Oxamyl	mg/kg	0.04															

Soil Analytical Results

Field ID		Date	TP29/0.0	TP30/0.0	TP34/0.0	TP35/0.0	TP38/0.0	TP39/0.0	TP41/0.0	TP42/0.0	TP45/0.0	TP48/0.0	TP51/0.0	TP53/0.0	TP56/0.0	TP58/0.0	TP59/0.0	
			02 Nov 2023	02 Nov 2023	02 Nov 2023	02 Nov 2023	02 Nov 2023	02 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	03 Nov 2023	
	Unit	EQL	NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space	NEPM 2013 Table 1A(1) HILs Res A Soil														
NA																		
Aminocarb	MG/KG	0.04				<0.04						<0.04				<0.04	<0.04	
Fenuron/Fenuron TCA	MG/KG	0.005				<0.005						<0.005				<0.005	<0.005	
Thidiazuron	MG/KG	0.04				<0.04						<0.04				<0.04	<0.04	
Pesticides by LCMSMS (Positive																		
Siduron	mg/kg	0.02				<0.02						<0.02				<0.02	<0.02	
Carbamates																		
Methiocarb	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Fungicides																		
Carbendazim	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Halogenated Benzenes																		
Hexachlorobenzene	mg/kg	0.01		10		<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	
Herbicides																		
Monuron	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Neburon	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Propachlor	mg/kg	0.02				<0.02						<0.02				<0.02	<0.02	
Bromacil	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Diuron	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Fluometuron	mg/kg	0.02				<0.02						<0.02				<0.02	<0.02	
Linuron	mg/kg	0.04				<0.04						<0.04				<0.04	<0.04	
Trifluralin	mg/kg	0.2				<0.2						<0.2				<0.2	<0.2	
Inorganics																		
Nitrite + Nitrate as N	mg/kg	1					1.6	1.0	<1	<1	2.1	<1	1.2	<1	1.8	2.1	2.1	
Kjeldahl Nitrogen Total	mg/kg	10					350	460	250	170	200	250	580	350	310	470	370	
Moisture Content (dried @ 103°C)	%	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	1.0	<1	
Nitrogen (Total)	mg/kg	10					350	460	250	170	200	250	580	350	310	470	370	
Total Phosphorus (Organic Phosphate)	mg/kg	1					30	69	19	180	9.4	33	310	240	64	330	120	
Metals																		
Arsenic	mg/kg	2	100	100		<2	<2	<2	3.1	<2	<2	<2	<2	<2	<2	<2	3.2	
Cadmium	mg/kg	0.1		20		<0.1	<0.1	<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				2.2	<1	<1	10	<1	1.4	<1	1.0	<1	2.3	2.6	2.8	
Copper	mg/kg	1		6,000		<1	1.9	<1	<1	<1	130	81	62	6.5	3.0	3.7	<1	
Lead	mg/kg	1		300		1.1	2.1	<1	<1	<1	1.5	1.3	1.7	1.2	1.7	1.5	2.2	
Mercury	mg/kg	0.02		40		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Nickel	mg/kg	1		400		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Zinc	mg/kg	5		7,400		<5	<5	<5	7.1	<5	<5	9.7	19	5.4	14	5.4	<5	
Organochlorine Pesticides																		
Organochlorine pesticides EPAVic	mg/kg	0.1				<0.1	<0.1		<0.1	<0.1	<0.1	<0.1		<0.1	<0.1		<0.1	
Other organochlorine pesticides																		
EPAVic	mg/kg	0.1				<0.1	<0.1		<0.1	<0.1	<0.1	<0.1		<0.1	<0.1		<0.1	
2,4-DDT	mg/kg	0.01																
4,4-DDE	mg/kg	0.01				<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	<0.05	
a-BHC	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	
Aldrin	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Aldrin + Dieldrin	mg/kg	0.05		6		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
b-BHC	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Chlordane	mg/kg	0.01		50		<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.1	
d-BHC	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
DDD	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
DDT	mg/kg	0.01	180			<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
DDT+DDE+DDD	mg/kg	0.05		240		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Dieldrin	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Endosulfan I	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Endosulfan II	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Endosulfan sulphate	mg/kg	0.01				<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Endrin	mg/kg	0.01		10		<0.05	<0.05	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.05	<0.01	<0.05	
Endrin aldehyde	mg/kg	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Endrin ketone	mg/kg	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	&	

Appendix K: Groundwater Laboratory Results

Groundwater Analytical Results

Field ID					MW01	MW02	MW03
Date					15 Nov 2023	15 Nov 2023	15 Nov 2023
	Unit	EQL	Non-potable use of groundwater	NEPM 2013 Table 1C GILs, Drinking Water			
NA							
Aminocarb	UG/L	1			<1	<1	<1
Fenuron/Fenuron TCA	UG/L	2			<2	<2	<2
Pesticides by LCMSMS (Positive Siduron	µg/L	1			<1	<1	<1
Carbamates							
Methiocarb	µg/L	4	70	7	<4	<4	<4
Fungicides							
Carbendazim	µg/L	1	900	90	<1	<1	<1
Halogenated Benzenes							
Hexachlorobenzene	µg/L	0.2			<0.2	<0.2	<0.2
Herbicides							
Monuron	mg/L	0.002			<0.002	<0.002	<0.002
Propachlor	µg/L	1	700	70	<1	<1	<1
Bromacil	µg/L	2	4,000	400	<2	<2	<2
Diuron	µg/L	0.5	200	20	<0.5	<0.5	<0.5
s-Ethyl dipropylthiocarbamate	µg/L	5	3,000	300	<5	<5	<5
Fluometuron	µg/L	1	700	70	<1	<1	<1
Linuron	µg/L	5			<5	<5	<5
Propham	µg/L	5			<5	<5	<5
Inorganics							
Nitrite + Nitrate as N	mg/L	0.01			0.01	5.5	9.6
Kjeldahl Nitrogen Total	mg/L	0.2			4.4	<0.2	<0.2
Nitrogen (Total)	mg/L	0.2			4.4	5.5	9.6
Total Phosphorus (Organic Phosphate)	mg/L	0.01			0.49	0.05	0.33
Metals							
Arsenic	mg/L	0.001	0.1	0.01	0.004	0.002	<0.001
Cadmium	mg/L	0.0001	0.02	0.002	0.0003	<0.0001	<0.0001
Chromium (III+VI)	mg/L	0.001			0.28	0.032	0.027
Copper	mg/L	0.001	20	2	0.19	0.008	0.001
Lead	mg/L	0.001	0.1	0.01	0.014	0.015	0.047
Mercury	mg/L	0.0001	0.01	0.001	<0.0001	<0.0001	0.0001
Nickel	mg/L	0.001	0.2	0.02	0.091	0.008	0.002
Zinc	mg/L	0.005			0.24	0.015	0.007
Organochlorine Pesticides							
Organochlorine pesticides EPAVic	µg/L	2			<2	<2	<2
Other organochlorine pesticides							
EPAVic	µg/L	2			<2	<2	<2
4,4-DDE	µg/L	0.2			<0.2	<0.2	<0.2
a-BHC	µg/L	0.2			<0.2	<0.2	<0.2
Aldrin	µg/L	0.2			<0.2	<0.2	<0.2
Aldrin + Dieldrin	µg/L	0.2	3	0.3	<0.2	<0.2	<0.2
b-BHC	µg/L	0.2			<0.2	<0.2	<0.2
Chlordane	µg/L	2	20	2	<2	<2	<2
d-BHC	µg/L	0.2			<0.2	<0.2	<0.2
DDD	µg/L	0.2			<0.2	<0.2	<0.2
DDT	µg/L	0.2	90	9	<0.2	<0.2	<0.2
DDT+DDE+DDD	µg/L	0.2			<0.2	<0.2	<0.2
Dieldrin	µg/L	0.2			<0.2	<0.2	<0.2
Endosulfan I	µg/L	0.2			<0.2	<0.2	<0.2
Endosulfan II	µg/L	0.2			<0.2	<0.2	<0.2
Endosulfan sulphate	µg/L	0.2			<0.2	<0.2	<0.2
Endrin	µg/L	0.2			<0.2	<0.2	<0.2
Endrin aldehyde	µg/L	0.2			<0.2	<0.2	<0.2
Endrin ketone	µg/L	0.2			<0.2	<0.2	<0.2
g-BHC (Lindane)	µg/L	0.2	100	10	<0.2	<0.2	<0.2
Heptachlor	µg/L	0.2	3		<0.2	<0.2	<0.2
Heptachlor epoxide	µg/L	0.2		0.3	<0.2	<0.2	<0.2
Methoxychlor	µg/L	0.2			<0.2	<0.2	<0.2
Toxaphene	mg/L	0.005			<0.005	<0.005	<0.005
Organophosphorous Pesticides							
Tokuthion	mg/L	0.002			<0.002	<0.002	<0.002
Azinophos methyl	µg/L	2	300	30	<2	<2	<2
Bolstar (Sulprofos)	µg/L	2	100	10	<2	<2	<2
Chlorfenvinphos	µg/L	20	20	2	<20	<20	<20
Chlorpyrifos	µg/L	2	100	10	<2	<2	<2
Chlorpyrifos-methyl	mg/L	0.002			<0.002	<0.002	<0.002
Coumaphos	µg/L	20			<20	<20	<20
Demeton-O	µg/L	2			<2	<2	<2
Demeton-S	µg/L	2			<2	<2	<2
Diazinon	µg/L	2	40	4	<2	<2	<2
Dichlorvos	µg/L	2	50	5	<2	<2	<2
Dimethoate	µg/L	2	70	7	<2	<2	<2
Disulfoton	µg/L	2	40	4	<2	<2	<2
Ethion	µg/L	2	40	4	<2	<2	<2
Ethoprop	µg/L	2	10	1	<2	<2	<2
Fenitrothion	µg/L	2	70	7	<2	<2	<2
Fensulfothion	µg/L	2	100		<2	<2	<2
Fenthion	µg/L	2	70	7	<2	<2	<2
EPN	µg/L	2			<2	<2	<2
Malathion	µg/L	2	700	70	<2	<2	<2
Merphos	mg/L	0.002			<0.002	<0.002	<0.002
Methyl parathion	µg/L	2	7	0.7	<2	<2	<2
Mevinphos (Phosdrin)	µg/L	2	60	6	<2	<2	<2
Monocrotophos	µg/L	2	20		<2	<2	<2
Naled (Dibrom)	µg/L	2			<2	<2	<2
Omethoate	µg/L	20	10	1	<20	<20	<20
Phorate	µg/L	2			<2	<2	<2
Pyrazophos	µg/L	2	200	20	<2	<2	<2
Ronnel	µg/L	2			<2	<2	<2
Terbufos	µg/L	2	9	0.9	<2	<2	<2
Trichloronate	µg/L	2			<2	<2	<2
Tetrachlorvinphos	mg/L	0.002	1		<0.002	<0.002	<0.002
Pesticides							
Mexacarbate	mg/L	0.001			<0.001	<0.001	<0.001
Aldicarb sulfoxide	µg/L	1			<1	<1	<1
Aldicarb	µg/L	1	40	4	<1	<1	<1
Aldicarb sulfone	µg/L	1			<1	<1	<1
Baygon	µg/L	1			<1	<1	<1
Carbaryl	µg/L	4	300	30	<4	<4	<4
Carbofuran	mg/L	0.001	0.1	0.01	<0.001	<0.001	<0.001
Fenamiphos	µg/L	0.1	5	0.5	<0.1	<0.1	<0.1
Methomyl	mg/L	0.002	0.2	0.02	<0.002	<0.002	<0.002
Oxamyl	µg/L	2	70	7	<2	<2	<2
Parathion	µg/L	2	200	20	<2	<2	<2
Pirimiphos-methyl	mg/L	0.02	0.9	0.09	<0.02	<0.02	<0.02

Appendix L: Understanding Your Report

UNDERSTANDING YOUR REPORT

GALT FORM PMP29 Rev3

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. 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.

O:\Administration\Standard Forms and Documents\GEPL Forms\PMP29-Rev4 Understanding your Report Env Logo.docx