

FW: DVA Greenslopes

Zoe Flynn <ZoeFlynn@eurofins.com>

Fri 08/09/23 12:58 PM

To: #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>

📎 1 attachments (2 MB)

coc dva 31.08.23.pdf;

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

3-day Rebatch - 1022078

- Organochlorine Pesticides (OCP) – 1C1, 1C2, 1C3, 1C4, 1C5, 1C6
- TCLP OCPs – 1C1, 1C2

Warm Regards,

Zoe Flynn

Analytical Service Manager - QLD

Office Hours: 9:00am-5:00pm

Eurofins Environment Testing Australia Pty Ltd

1/21 Smallwood Place

MURARRIE QLD 4172

AUSTRALIA

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Website : www.eurofins.com.au/environmental-testing



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From: Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Sent: Friday, 8 September 2023 12:54 PM

To: Zoe Flynn <ZoeFlynn@eurofins.com>

Subject: DVA Greenslopes

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

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Hi Zoe

Can you please schedule the following samples from the batch submitted last Friday for the following on a 3-day TAT.

- Organochlorine Pesticides (OCP) – 1C1, 1C2, 1C3, 1C4, 1C5, 1C6
- TCLP OCPs – 1C1, 1C2

Best regards

Jeremy Wicks | Queensland Practice Leader Site Assessment and Remediation

Direct +61 7 3239 9357 | Business +61 7 3239 9300 | Mobile +61 435 956 733 | jeremy.wicks@tetrattech.com

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TETRA TECH
COFFEY

From: McLay, Alistair <ALISTAIR.MCLAY@tetrattech.com>

Sent: Thursday, 31 August 2023 2:44 PM

To: Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Subject: COC dva 31.08.213

Hi Jeremy ,

Attached coc for dva

Regards,

Alistair

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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 NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY
Project ID:	754-BNEEN278300
Turnaround time:	3 Day
Date/Time received	Sep 8, 2023 12:54 PM
Eurofins reference	1024449

Sample Information

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

Notes

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1024449
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 12:54 PM
Due: Sep 13, 2023
Priority: 3 Day
Contact Name: Jeremy Wicks

Project Name: HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY
Project ID: 754-BNEEN278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Brisbane Laboratory - NATA # 1261 Site # 20794

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Organochlorine Pesticides	Organochlorine Pesticides	USA Leaching Procedure	Moisture Set
1	1C1_230831	Aug 31, 2023		Soil	B23-Se0017814		X		X
2	1C2_230831	Aug 31, 2023		Soil	B23-Se0017815		X		X
3	1C3_230831	Aug 31, 2023		Soil	B23-Se0017816		X		X
4	1C4_230831	Aug 31, 2023		Soil	B23-Se0017817		X		X
5	1C5_230831	Aug 31, 2023		Soil	B23-Se0017818		X		X
6	1C6_230831	Aug 31, 2023		Soil	B23-Se0017819		X		X
7	1C1_230831	Aug 31, 2023		US Leachate	B23-Se0017820	X		X	
8	1C2_230831	Aug 31, 2023		US Leachate	B23-Se0017821	X		X	
Test Counts						8	8	2	6

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1024449-L**
Project name **HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY**
Project ID **754-BNEEN278300**
Received Date **Sep 08, 2023**

Client Sample ID			1C1_230831	1C2_230831
Sample Matrix			US Leachate	US Leachate
Eurofins Sample No.			B23- Se0017820	B23- Se0017821
Date Sampled			Aug 31, 2023	Aug 31, 2023
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Chlordanes - Total	0.005	mg/L	< 0.005	< 0.005
4.4'-DDD	0.001	mg/L	< 0.001	< 0.001
4.4'-DDE	0.001	mg/L	< 0.001	< 0.001
4.4'-DDT	0.001	mg/L	< 0.001	< 0.001
a-HCH	0.001	mg/L	< 0.001	< 0.001
Aldrin	0.001	mg/L	< 0.001	< 0.001
b-HCH	0.001	mg/L	< 0.001	< 0.001
d-HCH	0.001	mg/L	< 0.001	< 0.001
Dieldrin	0.001	mg/L	< 0.001	< 0.001
Endosulfan I	0.001	mg/L	< 0.001	< 0.001
Endosulfan II	0.001	mg/L	< 0.001	< 0.001
Endosulfan sulphate	0.001	mg/L	< 0.001	< 0.001
Endrin	0.001	mg/L	< 0.001	< 0.001
Endrin aldehyde	0.001	mg/L	< 0.001	< 0.001
Endrin ketone	0.001	mg/L	< 0.001	< 0.001
g-HCH (Lindane)	0.001	mg/L	< 0.001	< 0.001
Heptachlor	0.001	mg/L	< 0.001	< 0.001
Heptachlor epoxide	0.001	mg/L	< 0.001	< 0.001
Hexachlorobenzene	0.001	mg/L	< 0.001	< 0.001
Methoxychlor	0.001	mg/L	< 0.001	< 0.001
Toxaphene	0.005	mg/L	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.001	< 0.001
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.001	< 0.001
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.005	< 0.005
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.005	< 0.005
Dibutylchloroendate (surr.)	1	%	89	56
Tetrachloro-m-xylene (surr.)	1	%	93	90
USA Leaching Procedure				
Leachate Fluid ^{C01}		comment	1.0	1.0
pH (initial)	0.1	pH Units	7.0	7.5
pH (Leachate fluid)	0.1	pH Units	5.0	5.0
pH (off)	0.1	pH Units	5.1	5.1
pH (USA HCl addition)	0.1	pH Units	1.6	1.6

Sample History

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

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

Description

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

USA Leaching Procedure

- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes

Testing Site

Melbourne

Brisbane

Extracted

Sep 11, 2023

Sep 08, 2023

Holding Time

7 Days

14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1024449
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 12:54 PM
Due: Sep 13, 2023
Priority: 3 Day
Contact Name: Jeremy Wicks

Project Name: HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY
Project ID: 754-BNEEN278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Organochlorine Pesticides	Organochlorine Pesticides	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	1C1_230831	Aug 31, 2023		Soil	B23-Se0017814		X		X
2	1C2_230831	Aug 31, 2023		Soil	B23-Se0017815		X		X
3	1C3_230831	Aug 31, 2023		Soil	B23-Se0017816		X		X
4	1C4_230831	Aug 31, 2023		Soil	B23-Se0017817		X		X
5	1C5_230831	Aug 31, 2023		Soil	B23-Se0017818		X		X
6	1C6_230831	Aug 31, 2023		Soil	B23-Se0017819		X		X
7	1C1_230831	Aug 31, 2023		US Leachate	B23-Se0017820	X		X	
8	1C2_230831	Aug 31, 2023		US Leachate	B23-Se0017821	X		X	
Test Counts						8	8	2	6

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Se0009234	NCP	%	82			70-130	Pass	
4,4'-DDD	M23-Se0009234	NCP	%	101			70-130	Pass	
4,4'-DDE	M23-Se0009234	NCP	%	102			70-130	Pass	
4,4'-DDT	M23-Se0009234	NCP	%	87			70-130	Pass	
a-HCH	M23-Se0009234	NCP	%	83			70-130	Pass	
Aldrin	M23-Se0009234	NCP	%	71			70-130	Pass	
b-HCH	M23-Se0009234	NCP	%	111			70-130	Pass	
d-HCH	M23-Se0009234	NCP	%	101			70-130	Pass	
Dieldrin	M23-Se0009234	NCP	%	71			70-130	Pass	
Endosulfan I	M23-Se0009234	NCP	%	96			70-130	Pass	
Endosulfan II	M23-Se0009234	NCP	%	100			70-130	Pass	
Endosulfan sulphate	M23-Se0009234	NCP	%	84			70-130	Pass	
Endrin	M23-Se0009234	NCP	%	96			70-130	Pass	
Endrin aldehyde	M23-Se0009234	NCP	%	76			70-130	Pass	
Endrin ketone	M23-Se0009234	NCP	%	120			70-130	Pass	
g-HCH (Lindane)	M23-Se0009234	NCP	%	92			70-130	Pass	
Heptachlor	M23-Se0009234	NCP	%	96			70-130	Pass	
Heptachlor epoxide	M23-Se0009234	NCP	%	82			70-130	Pass	
Hexachlorobenzene	M23-Se0009234	NCP	%	72			70-130	Pass	
Methoxychlor	M23-Se0009234	NCP	%	81			70-130	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	M23-Se0009233	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4,4'-DDD	M23-Se0009233	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4,4'-DDE	M23-Se0009233	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4,4'-DDT	M23-Se0009233	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
a-HCH	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-Se0009233	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Endosulfan I	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M23-Se0009233	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Heptachlor epoxide	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-Se0009233	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-Se0009233	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1024449-S**
Project name **HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY**
Project ID **754-BNEEN278300**
Received Date **Sep 08, 2023**

Client Sample ID			1C1_230831	1C2_230831	1C3_230831	1C4_230831
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0017814	B23- Se0017815	B23- Se0017816	B23- Se0017817
Date Sampled			Aug 31, 2023	Aug 31, 2023	Aug 31, 2023	Aug 31, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	11	< 0.05	0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	11	< 0.05	0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	11	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	142	129	INT	115
Tetrachloro-m-xylene (surr.)	1	%	100	79	126	101
Sample Properties						
% Moisture	1	%	17	17	21	24

Client Sample ID			1C5_230831	G011C6_230831
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23-Se0017818	B23-Se0017819
Date Sampled			Aug 31, 2023	Aug 31, 2023
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.5
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.5
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.5
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.5
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.5
Dibutylchloroendate (surr.)	1	%	INT	123
Tetrachloro-m-xylene (surr.)	1	%	119	89
Sample Properties				
% Moisture	1	%	16	25

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

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP and PCB in Soil and Water (USEPA 8270)

% Moisture

- Method: LTM-GEN-7080 Moisture

Testing Site

Brisbane

Brisbane

Extracted

Sep 08, 2023

Sep 08, 2023

Holding Time

14 Days

14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: HAZMAT PRE-DEMOLITION SURVEY & DANGEROUS GOODS SURVEY
Project ID: 754-BNEEN278300

Order No.:
Report #: 1024449
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 12:54 PM
Due: Sep 13, 2023
Priority: 3 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Organochlorine Pesticides	Organochlorine Pesticides	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	1C1_230831	Aug 31, 2023		Soil	B23-Se0017814		X		X
2	1C2_230831	Aug 31, 2023		Soil	B23-Se0017815		X		X
3	1C3_230831	Aug 31, 2023		Soil	B23-Se0017816		X		X
4	1C4_230831	Aug 31, 2023		Soil	B23-Se0017817		X		X
5	1C5_230831	Aug 31, 2023		Soil	B23-Se0017818		X		X
6	1C6_230831	Aug 31, 2023		Soil	B23-Se0017819		X		X
7	1C1_230831	Aug 31, 2023		US Leachate	B23-Se0017820	X		X	
8	1C2_230831	Aug 31, 2023		US Leachate	B23-Se0017821	X		X	
Test Counts						8	8	2	6

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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

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

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
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	
Toxaphene			mg/kg	N/A			0.5	N/A	
LCS - % Recovery									
Organochlorine Pesticides									
Chlordanes - Total			%	91			70-130	Pass	
4.4'-DDD			%	80			70-130	Pass	
4.4'-DDE			%	83			70-130	Pass	
4.4'-DDT			%	74			70-130	Pass	
a-HCH			%	73			70-130	Pass	
Aldrin			%	94			70-130	Pass	
b-HCH			%	77			70-130	Pass	
d-HCH			%	90			70-130	Pass	
Dieldrin			%	76			70-130	Pass	
Endosulfan I			%	96			70-130	Pass	
Endosulfan II			%	99			70-130	Pass	
Endosulfan sulphate			%	74			70-130	Pass	
Endrin			%	87			70-130	Pass	
Endrin aldehyde			%	79			70-130	Pass	
Endrin ketone			%	91			70-130	Pass	
g-HCH (Lindane)			%	84			70-130	Pass	
Heptachlor			%	74			70-130	Pass	
Heptachlor epoxide			%	99			70-130	Pass	
Hexachlorobenzene			%	91			70-130	Pass	
Methoxychlor			%	74			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Se0017814	CP	%	82			70-130	Pass	
4.4'-DDD	B23-Se0020759	NCP	%	101			70-130	Pass	
4.4'-DDE	B23-Se0017814	CP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	B23-Se0017814	CP	%	87			70-130	Pass	
a-HCH	B23-Se0017814	CP	%	93			70-130	Pass	
Aldrin	B23-Se0017814	CP	%	85			70-130	Pass	
b-HCH	B23-Se0017814	CP	%	96			70-130	Pass	
d-HCH	B23-Se0017814	CP	%	76			70-130	Pass	
Dieldrin	B23-Se0015328	NCP	%	103			70-130	Pass	
Endosulfan I	B23-Se0017814	CP	%	74			70-130	Pass	
Endosulfan II	B23-Se0017814	CP	%	92			70-130	Pass	
Endosulfan sulphate	B23-Se0017814	CP	%	89			70-130	Pass	
Endrin	B23-Se0007966	NCP	%	124			70-130	Pass	
Endrin aldehyde	B23-Se0017814	CP	%	93			70-130	Pass	
Endrin ketone	B23-Se0017814	CP	%	88			70-130	Pass	
g-HCH (Lindane)	B23-Se0017814	CP	%	81			70-130	Pass	
Heptachlor	B23-Se0015328	NCP	%	89			70-130	Pass	
Heptachlor epoxide	B23-Se0017814	CP	%	77			70-130	Pass	
Hexachlorobenzene	B23-Se0017814	CP	%	84			70-130	Pass	
Methoxychlor	B23-Se0017814	CP	%	117			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	B23-Au0066888	NCP	mg/kg	-	-	-	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	B23-Se0017811	NCP	%	9.1	7.9	14	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-Se0017815	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-Se0017815	CP	mg/kg	11	10	6.9	30%	Pass	
Endosulfan I	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-Se0017815	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Eurofins | Environment Testing ABN 50 005 085 521

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☐ Melbourne Laboratory

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+61 3 8364 5000 Envirosamplevce@neutronics.com

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



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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Company		TETRA TECH COFFEY		Project Name		282781		Project Manager		JEREMY WICKS@TETRA TECH.COM		Sample(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		Handed over by		AM	
Contact Name		alistair mcley		Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		Email for Invoice		JEREMY.WICKS@TETRA TECH.COM	
Phone No		0410996070		Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		Email for Results		JEREMY.WICKS@TETRA TECH.COM	
Special Directions		FOR QCDZ PLEASE DELIVER SAMPLE TO AS STAGE ROAD GOR SECONDARY ANALYSIS		Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		Required Turnaround Time (TAT)		Default will be 5 days if not ticked.	
Purchase Order				Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		Containers		Change container type & size if necessary.	
Quote ID No				Project Name		DEPARTMENT OF VETERAN AFFAIRS - Greenslopes Remediation		EDD Format		ESD+ + EXCEL		500mL Plastic			
Ne		Client Sample ID		Sampled Date/Time		Matrix		Solid (S)		Water (W)		250mL Plastic			
1		VII		7/09/23		S						125mL Plastic			
2		V12		7/09/23		S						200mL Amber Glass			
3		QCD1 DUP		7/09/23		S						40mL VOA vial			
4		QCD2 TRIP		7/09/23		S						500mL PFAS Bottle			
5		QCD3 FB		7/09/23		S						Jar (Glass or HDPE)			
6		QCD4 RB		7/09/23		S						Other (Asbestos AS4964, WA Guidelines)			
7				7/09/23		S						Sample Comments		Dangerous Goods Hazard Warning	
8				7/09/23		S						Overnight (reporting by 9am)		Surcharge will apply	
9				7/09/23		S						Same day		1 day	
10				7/09/23		S						2 days		3 days	
				7/09/23		S						5 days (Standard)		Other	
Method of Shipment		<input checked="" type="checkbox"/> Courier / #		<input type="checkbox"/> Hand Delivered		Name		Signature		Date		Time		1500	
Laboratory Use Only		Received By		Received By		Signature		Signature		Date		Time		Report No	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Eurofins ARL Pty Ltd

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID:	282781
Turnaround time:	5 Day
Date/Time received	Sep 8, 2023 4:30 PM
Eurofins reference	1024818

Sample Information

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

Notes

Samples have been forwarded to ALS as requested. Additional samples V13, and V14 as well as liquid trip blank and solid trip spike have been received. Samples have been placed on hold, please advise testing.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	V01_230908	Sep 07, 2023		Soil	B23-Se0022272	X			X	X	X
2	V02_230908	Sep 07, 2023		Soil	B23-Se0022273	X			X	X	X
3	V03_230908	Sep 07, 2023		Soil	B23-Se0022274	X			X	X	X
4	V04_230908	Sep 07, 2023		Soil	B23-Se0022275	X			X	X	X
5	V05_230908	Sep 07, 2023		Soil	B23-Se0022276	X			X	X	X
6	V06_230908	Sep 07, 2023		Soil	B23-Se0022277	X			X	X	X
7	V07_230908	Sep 07, 2023		Soil	B23-Se0022278	X			X	X	X
8	V08_230908	Sep 07, 2023		Soil	B23-Se0022279	X			X	X	X
9	V09_230908	Sep 07, 2023		Soil	B23-Se0022280	X			X	X	X
10	V10_230908	Sep 07, 2023		Soil	B23-Se0022281	X			X	X	X
11	V11_230908	Sep 07, 2023		Soil	B23-Se0022282	X			X	X	X



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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
12	V12_230908	Sep 07, 2023		Soil	B23-Se0022283	X			X	X	X
13	QC01 DUP	Sep 07, 2023		Soil	B23-Se0022284				X	X	X
14	QC03 FB	Sep 07, 2023		Water	B23-Se0022285			X		X	
15	QC04 RB	Sep 07, 2023		Water	B23-Se0022286			X		X	
16	TRIP BLANK	Sep 07, 2023		Trip Blank (liquid)	B23-Se0022287		X				
17	TRIP SPIKE	Sep 07, 2023		Trip Spike (solid)	B23-Se0022288		X				
18	V013_230908	Sep 07, 2023		Soil	B23-Se0022330		X				
19	V014_230908	Sep 07, 2023		Soil	B23-Se0022331		X				
Test Counts						12	4	15	15	15	13

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Jeremy Wicks
Report 1024818-AID
Project Name DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID 282781
Received Date Sep 08, 2023
Date Reported Sep 21, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID 282781
Date Sampled Sep 07, 2023
Report 1024818-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
V01_230908	23-Se0022272	Sep 07, 2023	Approximate Sample 404g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V02_230908	23-Se0022273	Sep 07, 2023	Approximate Sample 459g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V03_230908	23-Se0022274	Sep 07, 2023	Approximate Sample 553g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V04_230908	23-Se0022275	Sep 07, 2023	Approximate Sample 382g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V05_230908	23-Se0022276	Sep 07, 2023	Approximate Sample 447g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V06_230908	23-Se0022277	Sep 07, 2023	Approximate Sample 551g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V07_230908	23-Se0022278	Sep 07, 2023	Approximate Sample 592g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V08_230908	23-Se0022279	Sep 07, 2023	Approximate Sample 620g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
V09_230908	23-Se0022280	Sep 07, 2023	Approximate Sample 558g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V10_230908	23-Se0022281	Sep 07, 2023	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V11_230908	23-Se0022282	Sep 07, 2023	Approximate Sample 378g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
V12_230908	23-Se0022283	Sep 07, 2023	Approximate Sample 437g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 11, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
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Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	V01_230908	Sep 07, 2023		Soil	B23-Se0022272	X			X	X	X
2	V02_230908	Sep 07, 2023		Soil	B23-Se0022273	X			X	X	X
3	V03_230908	Sep 07, 2023		Soil	B23-Se0022274	X			X	X	X
4	V04_230908	Sep 07, 2023		Soil	B23-Se0022275	X			X	X	X
5	V05_230908	Sep 07, 2023		Soil	B23-Se0022276	X			X	X	X
6	V06_230908	Sep 07, 2023		Soil	B23-Se0022277	X			X	X	X
7	V07_230908	Sep 07, 2023		Soil	B23-Se0022278	X			X	X	X
8	V08_230908	Sep 07, 2023		Soil	B23-Se0022279	X			X	X	X
9	V09_230908	Sep 07, 2023		Soil	B23-Se0022280	X			X	X	X
10	V10_230908	Sep 07, 2023		Soil	B23-Se0022281	X			X	X	X
11	V11_230908	Sep 07, 2023		Soil	B23-Se0022282	X			X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

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Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
12	V12_230908	Sep 07, 2023		Soil	B23-Se0022283	X			X	X	X
13	QC01 DUP	Sep 07, 2023		Soil	B23-Se0022284				X	X	X
14	QC03 FB	Sep 07, 2023		Water	B23-Se0022285			X		X	
15	QC04 RB	Sep 07, 2023		Water	B23-Se0022286			X		X	
16	TRIP BLANK	Sep 07, 2023		Trip Blank (liquid)	B23-Se0022287		X				
17	TRIP SPIKE	Sep 07, 2023		Trip Spike (solid)	B23-Se0022288		X				
18	V013_230908	Sep 07, 2023		Soil	B23-Se0022330		X				
19	V014_230908	Sep 07, 2023		Soil	B23-Se0022331		X				
Test Counts						12	4	15	15	15	13

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Se0022272, 23-Se0022273, 23-Se0022275, 23-Se0022276, 23-Se0022282 and 23-Se0022283: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos

Authorised by:

Sayeed Abu Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1024818-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION**
Project ID **282781**
Received Date **Sep 08, 2023**

Client Sample ID			V01_230908	V02_230908	V03_230908	V04_230908
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0022272	B23- Se0022273	B23- Se0022274	B23- Se0022275
Date Sampled			Sep 07, 2023	Sep 07, 2023	Sep 07, 2023	Sep 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.3	< 0.1	1.8
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.3	< 0.1	1.8
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	0.3	< 0.1	1.8
Dibutylchloredate (surr.)	1	%	124	106	107	134
Tetrachloro-m-xylene (surr.)	1	%	67	112	111	97
Heavy Metals						
Arsenic	2	mg/kg	2.4	2.7	7.4	9.3
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	110	41	92	80
Copper	5	mg/kg	19	6.3	8.6	16
Lead	5	mg/kg	5.3	< 5	9.0	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	55	22	55	29
Zinc	5	mg/kg	32	15	52	42

Client Sample ID			V01_230908	V02_230908	V03_230908	V04_230908
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0022272	B23- Se0022273	B23- Se0022274	B23- Se0022275
Date Sampled			Sep 07, 2023	Sep 07, 2023	Sep 07, 2023	Sep 07, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	24	3.5	5.8	6.2

Client Sample ID			V05_230908	V06_230908	V07_230908	V08_230908
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0022276	B23- Se0022277	B23- Se0022278	B23- Se0022279
Date Sampled			Sep 07, 2023	Sep 07, 2023	Sep 07, 2023	Sep 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.5	< 0.1	1.2	0.5
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.06
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.21
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.27
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.5	< 0.1	1.25	0.77
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.5	< 0.1	1.25	0.5
Dibutylchlorendate (surr.)	1	%	-	113	114	140
Tetrachloro-m-xylene (surr.)	1	%	149	109	98	98
Heavy Metals						
Arsenic	2	mg/kg	4.9	6.0	9.4	11
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	76	130	75	93
Copper	5	mg/kg	13	23	9.6	12
Lead	5	mg/kg	8.7	11	9.5	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	36	77	21	30
Zinc	5	mg/kg	27	29	26	50
Sample Properties						
% Moisture	1	%	14	21	5.5	9.1

Client Sample ID			V09_230908	V10_230908	V11_230908	V12_230908
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0022280	B23- Se0022281	B23- Se0022282	B23- Se0022283
Date Sampled			Sep 07, 2023	Sep 07, 2023	Sep 07, 2023	Sep 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.4	0.5	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	n/a
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.4	0.57	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.4	0.5	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	109	123	136	51
Tetrachloro-m-xylene (surr.)	1	%	108	87	117	51
Heavy Metals						
Arsenic	2	mg/kg	6.6	8.0	3.9	3.3
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	74	98	49	52
Copper	5	mg/kg	12	14	5.8	6.3
Lead	5	mg/kg	8.0	13	5.4	9.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	35	27	23
Zinc	5	mg/kg	38	40	16	17
Sample Properties						
% Moisture	1	%	6.6	13	9.9	7.9

Client Sample ID			QC01 DUP
Sample Matrix			Soil
Eurofins Sample No.			B23- Se0022284
Date Sampled			Sep 07, 2023
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	0.7
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
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	0.7
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.7
Dibutylchlorodate (surr.)	1	%	84
Tetrachloro-m-xylene (surr.)	1	%	100
Heavy Metals			
Arsenic	2	mg/kg	8.4
Cadmium	0.5	mg/kg	< 0.5
Chromium	5	mg/kg	78
Copper	5	mg/kg	9.9
Lead	5	mg/kg	11
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	21
Zinc	5	mg/kg	24
Sample Properties			
% Moisture	1	%	6.5

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP and PCB in Soil and Water (USEPA 8270)	Brisbane	Sep 12, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Sep 12, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Sep 11, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	V01_230908	Sep 07, 2023		Soil	B23-Se0022272	X			X	X	X
2	V02_230908	Sep 07, 2023		Soil	B23-Se0022273	X			X	X	X
3	V03_230908	Sep 07, 2023		Soil	B23-Se0022274	X			X	X	X
4	V04_230908	Sep 07, 2023		Soil	B23-Se0022275	X			X	X	X
5	V05_230908	Sep 07, 2023		Soil	B23-Se0022276	X			X	X	X
6	V06_230908	Sep 07, 2023		Soil	B23-Se0022277	X			X	X	X
7	V07_230908	Sep 07, 2023		Soil	B23-Se0022278	X			X	X	X
8	V08_230908	Sep 07, 2023		Soil	B23-Se0022279	X			X	X	X
9	V09_230908	Sep 07, 2023		Soil	B23-Se0022280	X			X	X	X
10	V10_230908	Sep 07, 2023		Soil	B23-Se0022281	X			X	X	X
11	V11_230908	Sep 07, 2023		Soil	B23-Se0022282	X			X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
12	V12_230908	Sep 07, 2023		Soil	B23-Se0022283	X			X	X	X
13	QC01 DUP	Sep 07, 2023		Soil	B23-Se0022284				X	X	X
14	QC03 FB	Sep 07, 2023		Water	B23-Se0022285			X		X	
15	QC04 RB	Sep 07, 2023		Water	B23-Se0022286			X		X	
16	TRIP BLANK	Sep 07, 2023		Trip Blank (liquid)	B23-Se0022287		X				
17	TRIP SPIKE	Sep 07, 2023		Trip Spike (solid)	B23-Se0022288		X				
18	V013_230908	Sep 07, 2023		Soil	B23-Se0022330		X				
19	V014_230908	Sep 07, 2023		Soil	B23-Se0022331		X				
Test Counts						12	4	15	15	15	13

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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	
Toxaphene	mg/kg	n/a			0.5	N/A	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	81			70-130	Pass	
4,4'-DDD	%	119			70-130	Pass	
4,4'-DDE	%	91			70-130	Pass	
4,4'-DDT	%	122			70-130	Pass	
a-HCH	%	87			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-HCH	%	97			70-130	Pass	
d-HCH	%	89			70-130	Pass	
Dieldrin	%	112			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	89			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	91			70-130	Pass	
Endrin aldehyde	%	81			70-130	Pass	
Endrin ketone	%	92			70-130	Pass	
g-HCH (Lindane)	%	87			70-130	Pass	
Heptachlor	%	99			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide				%	100			70-130	Pass	
Hexachlorobenzene				%	87			70-130	Pass	
Methoxychlor				%	108			70-130	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	91			80-120	Pass	
Cadmium				%	89			80-120	Pass	
Chromium				%	108			80-120	Pass	
Copper				%	101			80-120	Pass	
Lead				%	101			80-120	Pass	
Mercury				%	101			80-120	Pass	
Nickel				%	99			80-120	Pass	
Zinc				%	80			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
Endosulfan II	B23-Se0016592	NCP	%	84			70-130	Pass		
Endrin	B23-Se0027566	NCP	%	73			70-130	Pass		
Spike - % Recovery										
Heavy Metals					Result 1					
Chromium	B23-Se0024401	NCP	%	92			75-125	Pass		
Mercury	B23-Se0024401	NCP	%	113			75-125	Pass		
Nickel	B23-Se0024401	NCP	%	100			75-125	Pass		
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
Chlordanes - Total	B23-Se0022273	CP	%	112			70-130	Pass		
4,4'-DDD	B23-Se0022273	CP	%	91			70-130	Pass		
4,4'-DDE	B23-Se0022273	CP	%	118			70-130	Pass		
4,4'-DDT	B23-Se0022273	CP	%	105			70-130	Pass		
a-HCH	B23-Se0022273	CP	%	106			70-130	Pass		
Aldrin	B23-Se0022273	CP	%	122			70-130	Pass		
b-HCH	B23-Se0022273	CP	%	129			70-130	Pass		
d-HCH	B23-Se0022273	CP	%	109			70-130	Pass		
Dieldrin	B23-Se0022273	CP	%	111			70-130	Pass		
Endosulfan I	B23-Se0022273	CP	%	116			70-130	Pass		
Endosulfan sulphate	B23-Se0022273	CP	%	102			70-130	Pass		
Endrin aldehyde	B23-Se0022273	CP	%	88			70-130	Pass		
Endrin ketone	B23-Se0022273	CP	%	101			70-130	Pass		
g-HCH (Lindane)	B23-Se0022273	CP	%	108			70-130	Pass		
Heptachlor	B23-Se0022273	CP	%	98			70-130	Pass		
Heptachlor epoxide	B23-Se0027559	NCP	%	89			70-130	Pass		
Hexachlorobenzene	B23-Se0022273	CP	%	109			70-130	Pass		
Methoxychlor	B23-Se0022273	CP	%	128			70-130	Pass		
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	B23-Se0022273	CP	%	85			75-125	Pass		
Cadmium	B23-Se0022273	CP	%	93			75-125	Pass		
Copper	B23-Se0022273	CP	%	97			75-125	Pass		
Lead	B23-Se0022273	CP	%	117			75-125	Pass		
Zinc	B23-Se0022273	CP	%	120			75-125	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Duplicate										
Sample Properties					Result 1	Result 2	RPD			
% Moisture	B23-Se0022272	CP	%	24	23	5.6	30%	Pass		

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Toxaphene	B23-Au0066888	NCP	mg/kg	-	-	-	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0022282	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0022282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0022282	CP	mg/kg	3.9	3.0	26	30%	Pass
Cadmium	B23-Se0022282	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0022282	CP	mg/kg	49	60	22	30%	Pass
Copper	B23-Se0022282	CP	mg/kg	5.8	6.1	5.5	30%	Pass
Lead	B23-Se0022282	CP	mg/kg	5.4	5.5	2.4	30%	Pass
Mercury	B23-Se0022282	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0022282	CP	mg/kg	27	27	<1	30%	Pass
Zinc	B23-Se0022282	CP	mg/kg	16	15	6.9	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0022282	CP	%	9.9	9.0	9.2	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

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1024818-W**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION**
Project ID **282781**
Received Date **Sep 08, 2023**

Client Sample ID			QC03 FB	QC04 RB
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Se0022285	B23- Se0022286
Date Sampled			Sep 07, 2023	Sep 07, 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
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
Dibutylchloredate (surr.)	1	%	84	91
Tetrachloro-m-xylene (surr.)	1	%	67	75
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
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

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

Metals M8

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

Testing Site

Melbourne

Brisbane

Extracted

Sep 12, 2023

Sep 12, 2023

Holding Time

7 Days

28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
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Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	V01_230908	Sep 07, 2023		Soil	B23-Se0022272	X			X	X	X
2	V02_230908	Sep 07, 2023		Soil	B23-Se0022273	X			X	X	X
3	V03_230908	Sep 07, 2023		Soil	B23-Se0022274	X			X	X	X
4	V04_230908	Sep 07, 2023		Soil	B23-Se0022275	X			X	X	X
5	V05_230908	Sep 07, 2023		Soil	B23-Se0022276	X			X	X	X
6	V06_230908	Sep 07, 2023		Soil	B23-Se0022277	X			X	X	X
7	V07_230908	Sep 07, 2023		Soil	B23-Se0022278	X			X	X	X
8	V08_230908	Sep 07, 2023		Soil	B23-Se0022279	X			X	X	X
9	V09_230908	Sep 07, 2023		Soil	B23-Se0022280	X			X	X	X
10	V10_230908	Sep 07, 2023		Soil	B23-Se0022281	X			X	X	X
11	V11_230908	Sep 07, 2023		Soil	B23-Se0022282	X			X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMDIATION
Project ID: 282781

Order No.:
Report #: 1024818
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 8, 2023 4:30 PM
Due: Sep 15, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
12	V12_230908	Sep 07, 2023		Soil	B23-Se0022283	X			X	X	X
13	QC01 DUP	Sep 07, 2023		Soil	B23-Se0022284				X	X	X
14	QC03 FB	Sep 07, 2023		Water	B23-Se0022285			X		X	
15	QC04 RB	Sep 07, 2023		Water	B23-Se0022286			X		X	
16	TRIP BLANK	Sep 07, 2023		Trip Blank (liquid)	B23-Se0022287		X				
17	TRIP SPIKE	Sep 07, 2023		Trip Spike (solid)	B23-Se0022288		X				
18	V013_230908	Sep 07, 2023		Soil	B23-Se0022330		X				
19	V014_230908	Sep 07, 2023		Soil	B23-Se0022331		X				
Test Counts						12	4	15	15	15	13

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-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	
g-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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4,4'-DDD	%	118			70-130	Pass	
4,4'-DDE	%	94			70-130	Pass	
4,4'-DDT	%	120			70-130	Pass	
a-HCH	%	80			70-130	Pass	
Aldrin	%	78			70-130	Pass	
b-HCH	%	117			70-130	Pass	
d-HCH	%	103			70-130	Pass	
Dieldrin	%	79			70-130	Pass	
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	102			70-130	Pass	
Endosulfan sulphate	%	122			70-130	Pass	
Endrin	%	100			70-130	Pass	
Endrin aldehyde	%	78			70-130	Pass	
Endrin ketone	%	123			70-130	Pass	
g-HCH (Lindane)	%	92			70-130	Pass	
Heptachlor	%	101			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide			%	80			70-130	Pass	
Hexachlorobenzene			%	80			70-130	Pass	
Methoxychlor			%	96			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	85			80-120	Pass	
Cadmium			%	94			80-120	Pass	
Chromium			%	98			80-120	Pass	
Copper			%	98			80-120	Pass	
Lead			%	101			80-120	Pass	
Mercury			%	95			80-120	Pass	
Nickel			%	98			80-120	Pass	
Zinc			%	93			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-Se0013200	NCP	%	89			70-130	Pass	
4,4'-DDD	S23-Se0013200	NCP	%	75			70-130	Pass	
4,4'-DDE	S23-Se0013200	NCP	%	81			70-130	Pass	
4,4'-DDT	S23-Se0013200	NCP	%	80			70-130	Pass	
a-HCH	S23-Se0013200	NCP	%	87			70-130	Pass	
Aldrin	S23-Se0013200	NCP	%	87			70-130	Pass	
b-HCH	S23-Se0013200	NCP	%	111			70-130	Pass	
d-HCH	S23-Se0013200	NCP	%	99			70-130	Pass	
Dieldrin	S23-Se0013200	NCP	%	76			70-130	Pass	
Endosulfan I	S23-Se0013200	NCP	%	93			70-130	Pass	
Endosulfan II	S23-Se0013200	NCP	%	89			70-130	Pass	
Endosulfan sulphate	S23-Se0013200	NCP	%	73			70-130	Pass	
Endrin	S23-Se0013200	NCP	%	98			70-130	Pass	
Endrin aldehyde	S23-Se0013200	NCP	%	79			70-130	Pass	
Endrin ketone	S23-Se0013200	NCP	%	109			70-130	Pass	
g-HCH (Lindane)	S23-Se0013200	NCP	%	91			70-130	Pass	
Heptachlor	S23-Se0013200	NCP	%	71			70-130	Pass	
Heptachlor epoxide	S23-Se0013200	NCP	%	81			70-130	Pass	
Hexachlorobenzene	S23-Se0013200	NCP	%	79			70-130	Pass	
Methoxychlor	S23-Se0013200	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0021828	NCP	%	93			75-125	Pass	
Cadmium	B23-Se0021828	NCP	%	95			75-125	Pass	
Chromium	B23-Se0021828	NCP	%	92			75-125	Pass	
Copper	B23-Se0021828	NCP	%	86			75-125	Pass	
Lead	B23-Se0021828	NCP	%	91			75-125	Pass	
Mercury	B23-Se0021828	NCP	%	93			75-125	Pass	
Nickel	B23-Se0021828	NCP	%	86			75-125	Pass	
Zinc	B23-Se0021828	NCP	%	89			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Se0022285	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	B23-Se0025742	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	B23-Se0022285	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	B23-Se0022285	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	B23-Se0025742	NCP	mg/L	0.010	0.009	8.9	30%	Pass	
Zinc	B23-Se0022285	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-Se0022286	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4,4'-DDD	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDE	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDT	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	B23-Se0022286	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	B23-Se0022286	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Copper	B23-Se0028591	NCP	mg/L	0.001	< 0.001	17	30%	Pass	
Lead	B23-Se0022487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	B23-Se0022487	NCP	mg/L	< 0.0001	< 0.0001	<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

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Zoe Flynn

From: McLay, Alistair <ALISTAIR.MCLAY@tetratech.com>
Sent: Wednesday, 13 September 2023 2:19 PM
To: Zoe Flynn
Cc: Wicks, Jeremy
Subject: FW: DVA Greenstoppes - Samples Submitted 12/09/23
Attachments: (FX-2F36BE) Device Scan Data

Follow Up Flag:
Flag Status:
Categories:

Follow up
Flagged
Important

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins. Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hello Zoe,

Please see the attached COC that I submitted with the samples 12/09 and also per the email below. ASH samples I submitted just require the schedule to add on PAH(16) for analysis:

HS01_ASH_230912
HS02_ASH_230912
HS03_ASH_230912
HS04_ASH_230912
HS05_ASH_230912
HS06_ASH_230912
HS07_ASH_230912
HS08_ASH_230912

QA 03 and 04 do not need PAH's, as it is an NW sample.

Regards,

Alistair McLay | Environmental Scientist
Business +61 7 3239 9300 | Mobile +61 410 996 070 | Mobile +61 447 335 457 | Alistair.mclay@tetratech.com
Tetra Tech Coffey | Leading with Science®
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Please consider the environment before printing. [Read more](#)



CHAIN OF CUSTODY RECORD

Eurofins Environment Testing ABN 50 005 085 521

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PERTH LABORATORY
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+61 8 6253 4444 EnviroSampleWA@eurofins.com

MELBOURNE LABORATORY
6 Montrose Road, Dandenong South VIC 3175
+61 3 8564 5000 EnviroSampleVIC@eurofins.com

Company TERRA TECH COFFEY

Address LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000

Contact Name alistair mcley

Phone No 0410996070

Special Directions

Purchase Order

Quote ID No

Project No 282781
Project Name DEPARTMENT OF VETERAN AFFAIRS-
Greenslopes Remediation

Project Manager JEREMY WICKS@TETRATECH.COM
ESDAT + EXCEL

ESD Format ESDAT, EXCEL etc.

Analyses

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

8 metals
OCP
Asbestos NEPM

HOLD

No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)	Analysis	Signature	Date	Time	Temperature	Report No
1	HS01 - ASH - 230912	12/09/23	S						
2	- NW -	12/09/23	S						
3	- F -	12/09/23	S						
4	HS02 - ASH -	12/09/23	S						
5	- NW -	12/09/23	S						
6	- F -	12/09/23	S						
7	HS03 - ASH -	12/09/23	S						
8	- NW -	12/09/23	S						
9	- F -	12/09/23	S						
10	HS04 - ASH -	12/09/23	S						

Total Counts

Method of Shipment	Courier #	Hand Delivered	Postal	Name	Signature	Date	Time
--------------------	-----------	----------------	--------	------	-----------	------	------

Laboratory Use Only	Received By	Received By	Signature	Signature	Date	Time	Temperature	Report No
---------------------	-------------	-------------	-----------	-----------	------	------	-------------	-----------

Handed over by AM

Email for Invoice JEREMY.WICKS@TETRATECH.COM

Email for Results JEREMY.WICKS@TETRATECH.COM

Containers

500mL Plastic

250mL Plastic

125mL Plastic

200mL Amber Glass

40mL VOA vial

500mL PFAS Bottle

Jar (Glass or HDPE)

Other (Asbestos AS4964, WA Guidelines)

Required Turnaround Time (TAT)

Default: will be 5 days if not ticked.

Overnight (reporting by 9am) ♦

Same day ♦ 1 day ♦

2 days ♦ 3 days ♦

5 days (Standard)

Other

Sample Comments

Dangerous Goods Hazard Warning

1025758



CHAIN OF CUSTODY RECORD

Eurofins Environment Testing ABN 50 005 085 521

Sydney Laboratory
179 Macquarie Road, Granville, NSW 2145
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Melbourne Laboratory
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Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format		ESDAT + EXCEL	
Contact Name		alistair mcley		EDD Format		ESDAT + EXCEL		Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		0410996070		Email for Results		JEREMY.WICKS@TETRATECH.COM		Handed over by		AM	
Special Directions				Containers		500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4964, WA Guidelines)		Required Turnaround Time (TAT)		Default will be 5 days if not ticked. Overnight (reporting by 9am) <input type="checkbox"/> Same day <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days <input checked="" type="checkbox"/> 3 days <input type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other <input type="checkbox"/>	
Purchase Order				Sample Comments		DANGEROUS GOODS HAZARD WARNING					
Quote ID No											
No		Client Sample ID		Sampled Date/Time		Matrix					
1		HS04 - NW - 230912		12/09/23		S					
2		↓ - F -		12/09/23		S					
3		HS05 - ASH -		12/09/23		S					
4		↓ - NW -		12/09/23		S					
5		↓ - F -		12/09/23		S					
6		HS06 - ASH -		12/09/23		S					
7		↓ - NW -		12/09/23		S					
8		↓ - F -		12/09/23		S					
9		HS07 - ASH -		12/09/23		S					
10		↓ - NW -		12/09/23		S					
Method of Shipment		<input checked="" type="checkbox"/> Courier # <input type="checkbox"/> Hand Delivered		Total Counts							
Laboratory Use Only		Received By		Received By		Signature		Signature		Date	
		Received By		Received By		Signature		Signature		Date	
		Received By		Received By		Signature		Signature		Date	

Contact Name
alstair mclay
Phone No
0410996070
Special Directions
Purchase Order
Quote ID No
Client Sample ID
H507-F-230912
H508-ASH-
H508-NW-
H508-F-
Sampled Date/Time
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
12/09/23
Matrix
Solid (S)
Water (W)
Analyses
Where metals are requested, please specify "Total" or "Filtered".
SUITE code must be used to attract SUITE pricing.
8 METALS
OCP
1 SBESTOS NEPM
HOLD
Project Name
282781
DEPARTMENT OF VETERAN AFFAIRS -
Greenslopes Remediation
Project Manager
JEREMY WICKS@TETRATECH.COM
ESDAT + EXCEL
Sample(s)
AM
Handed over by
AM
Email for Invoice
JEREMY WICKS@TETRATECH.COM
Email for Results
JEREMY WICKS@TETRATECH.COM
Required Turnaround Time (TAT)
Default will be 5 days if not ticked.
*Surcharge will apply
Overnight (reporting by 9am) ♦
Same day ♦ 1 day ♦
2 days ♦ 3 days ♦
5 days (Standard)
Other
Sample Comments
/ Dangerous Goods Hazard Warning

Method of Shipment
Courier #
Hand Delivered
Total Counts
Received By
Received By
Laboratory Use Only
Signature
Date
Time
Temperature

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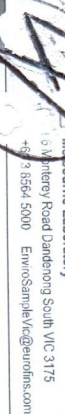
Method of Shipment
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Received By
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Laboratory Use Only
Signature
Date
Time
Temperature



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

Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sample(s)		4	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format		ESDAT + EXCEL		Handed over by		AM	
Contact Name		alistair mclay		Analyses		8 METALS OCP ASBESTOS NEPM		ESDAT EQUIS etc		JEREMY.WICKS@TETRATECH.COM		Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		0410996070		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		HOLD		JEREMY.WICKS@TETRATECH.COM		Email for Results		JEREMY.WICKS@TETRATECH.COM		Required Turnaround Time (TAT)	
Special Directions		Please deliver triplicate sample to HCS staff for secondary analysis										Containers		Default: will be 5 days if not ticked	
Purchase Order												500mL Plastic		Overnight (reporting by 9am) ♦	
Quote ID No												250mL Plastic		Same day ♦	
												125mL Plastic		2 days ♦	
												200mL Amber Glass		1 day ♦	
												40mL VOA vial		3 days ♦	
												500mL PFAS Bottle		Other (Asbestos AS4964, WA Guidelines)	
												Jar (Glass or HDPE)		Sample Comments / Dangerous Goods Hazard Warning	
No		Client Sample ID		Sampled Date/Time cl/m/y hh:mm		Matrix Solid (S) Water (W)								♦ Surcharge will apply	
1		QCO1-230912 (FB)		12/09/23		W						1		1	
2		QCO1-230912 (FB)		12/09/23		W						1		1	
3		QCO2-230912 (RB)		12/09/23		W						1		1	
4		QCO3-230912		12/09/23		S						1		1	
5		QCO4-230912		12/09/23		S						1		1	
6		QCO5-230912		12/09/23		S						1		1	
7		QCO6-230912		12/09/23		S						1		1	
8		CFO1-230912		12/09/23		S						1		1	
9		CFO2-		12/09/23		S						1		1	
10		CFO3-		12/09/23		S						1		1	
Method of Shipment		✓ Courier (#)		Hand Delivered		Postal		Name		Signature		Date		12TH SEPT	
Laboratory Use Only		Received By		Received By		SVD BME MEL PER ADL NTL DRW		Signature		Date		Time		Temperature	
		Received By		Received By		SVD BME MEL PER ADL NTL DRW		Signature		Date		Time		Report No	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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 NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID:	282781
Turnaround time:	5 Day
Date/Time received	Sep 12, 2023 3:35 PM
Eurofins reference	1025750

Sample Information

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

Notes

Unfortunately metals and pesticide testing is unable to be completed on a trip blank, TRH BTEX testing has been applied, please advise if this is incorrect. Samples have been forwarded to ALS as requested.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	HS01_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029886	X			X		X	X	X	
2	HS01_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029887	X					X	X	X	
3	HS01_F_2309 12	Sep 12, 2023		Soil	B23-Se0029888	X					X	X	X	
4	HS02_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029889	X			X		X	X	X	
5	HS02_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029890	X					X	X	X	
6	HS02_F_2309 12	Sep 12, 2023		Soil	B23-Se0029891	X					X	X	X	
7	HS03_ASH_2	Sep 12, 2023		Soil	B23-Se0029892	X			X		X	X	X	



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

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

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: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	30912													
8	HS03_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029893	X					X	X	X	
9	HS03_F_2309 12	Sep 12, 2023		Soil	B23-Se0029894	X					X	X	X	
10	HS04_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029895	X			X		X	X	X	
11	HS04_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029896	X					X	X	X	
12	HS04_F_2309 12	Sep 12, 2023		Soil	B23-Se0029897	X					X	X	X	
13	HS05_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029898	X			X		X	X	X	
14	HS05_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029899	X					X	X	X	
15	HS05_F_2309	Sep 12, 2023		Soil	B23-Se0029900	X					X	X	X	



Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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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 NZ Ltd

NZBN: 9429046024954

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	12													
16	HS06_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029901	X			X		X	X	X	
17	HS06_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029902	X					X	X	X	
18	HS06_F_2309 12	Sep 12, 2023		Soil	B23-Se0029903	X					X	X	X	
19	HS07_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029904	X			X		X	X	X	
20	HS07_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029905	X					X	X	X	
21	HS07_F_2309 12	Sep 12, 2023		Soil	B23-Se0029906	X					X	X	X	
22	HS08_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029907	X			X		X	X	X	
23	HS08_NW_23	Sep 12, 2023		Soil	B23-Se0029908	X					X	X	X	



Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370

Auckland	Christchurch	Tauranga
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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	0912													
24	HS08_F_230912	Sep 12, 2023		Soil	B23-Se0029909	X					X	X	X	
25	QC01_230912	Sep 12, 2023		Water	B23-Se0029910					X		X		
26	QC02_230912	Sep 12, 2023		Water	B23-Se0029911			X		X		X		
27	QC03_230912	Sep 12, 2023		Soil	B23-Se0029912	X					X	X	X	
28	CF01_230612	Sep 12, 2023		Soil	B23-Se0029913	X					X	X	X	
29	CF02_230612	Sep 12, 2023		Soil	B23-Se0029914	X					X	X	X	
30	CF03_230612	Sep 12, 2023		Soil	B23-Se0029915	X					X	X	X	
31	QC05_230912	Sep 12, 2023		Trip Blank (solid)	B23-Se0029916									X
32	QC06_230912	Sep 12, 2023		Trip Spike (solid)	B23-Se0029917		X							
Test Counts						28	1	1	8	30	30	30	28	1

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Jeremy Wicks
Report 1025750-AID
Project Name DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID 282781
Received Date Sep 12, 2023
Date Reported Sep 22, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID 282781
Date Sampled Sep 12, 2023
Report 1025750-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS01_ASH_230912	23-Se0029886	Sep 12, 2023	Approximate Sample 533g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS01_NW_230912	23-Se0029887	Sep 12, 2023	Approximate Sample 549g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS01_F_230912	23-Se0029888	Sep 12, 2023	Approximate Sample 547g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS02_ASH_230912	23-Se0029889	Sep 12, 2023	Approximate Sample 500g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS02_NW_230912	23-Se0029890	Sep 12, 2023	Approximate Sample 624g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS02_F_230912	23-Se0029891	Sep 12, 2023	Approximate Sample 636g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS03_ASH_230912	23-Se0029892	Sep 12, 2023	Approximate Sample 540g Sample consisted of: Brown coarse-grained soil, coal, fragments of fire black, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS03_NW_230912	23-Se0029893	Sep 12, 2023	Approximate Sample 545g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS03_F_230912	23-Se0029894	Sep 12, 2023	Approximate Sample 669g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS04_ASH_230912	23-Se0029895	Sep 12, 2023	Approximate Sample 503g Sample consisted of: Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS04_NW_230912	23-Se0029896	Sep 12, 2023	Approximate Sample 648g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS04_F_230912	23-Se0029897	Sep 12, 2023	Approximate Sample 664g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS05_ASH_230912	23-Se0029898	Sep 12, 2023	Approximate Sample 457g Sample consisted of: Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS05_NW_230912	23-Se0029899	Sep 12, 2023	Approximate Sample 752g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS05_F_230912	23-Se0029900	Sep 12, 2023	Approximate Sample 768g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS06_ASH_230912	23-Se0029901	Sep 12, 2023	Approximate Sample 469g Sample consisted of: Brown fine-grained clayey soil, coal, fragments of fire brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS06_NW_230912	23-Se0029902	Sep 12, 2023	Approximate Sample 720g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS06_F_230912	23-Se0029903	Sep 12, 2023	Approximate Sample 677g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS07_ASH_230912	23-Se0029904	Sep 12, 2023	Approximate Sample 546g Sample consisted of: Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS07_NW_230912	23-Se0029905	Sep 12, 2023	Approximate Sample 942g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS07_F_230912	23-Se0029906	Sep 12, 2023	Approximate Sample 724g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS08_ASH_230912	23-Se0029907	Sep 12, 2023	Approximate Sample 585g Sample consisted of: Brown fine-grained clayey soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS08_NW_230912	23-Se0029908	Sep 12, 2023	Approximate Sample 658g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS08_F_230912	23-Se0029909	Sep 12, 2023	Approximate Sample 663g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC03_230912	23-Se0029912	Sep 12, 2023	Approximate Sample 38g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
CF01_230612	23-Se0029913	Sep 12, 2023	Approximate Sample 987g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
CF02_230612	23-Se0029914	Sep 12, 2023	Approximate Sample 982g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
CF03_230612	23-Se0029915	Sep 12, 2023	Approximate Sample 1022g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 21, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 21, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X								
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X	X	X
External Laboratory															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
1	HS01_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029886		X			X		X	X	X	
2	HS01_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029887		X					X	X	X	
3	HS01_F_2309 12	Sep 12, 2023		Soil	B23-Se0029888		X					X	X	X	
4	HS02_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029889		X			X		X	X	X	
5	HS02_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029890		X					X	X	X	
6	HS02_F_2309 12	Sep 12, 2023		Soil	B23-Se0029891		X					X	X	X	
7	HS03_ASH_2	Sep 12, 2023		Soil	B23-Se0029892		X			X		X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X								
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X	X	X
	30912														
8	HS03_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029893		X					X	X	X	
9	HS03_F_2309 12	Sep 12, 2023		Soil	B23-Se0029894		X					X	X	X	
10	HS04_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029895		X			X		X	X	X	
11	HS04_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029896		X					X	X	X	
12	HS04_F_2309 12	Sep 12, 2023		Soil	B23-Se0029897		X					X	X	X	
13	HS05_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029898		X			X		X	X	X	
14	HS05_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029899		X					X	X	X	
15	HS05_F_2309	Sep 12, 2023		Soil	B23-Se0029900		X					X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X								
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X	X	X
12															
16	HS06_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029901		X			X		X	X	X	
17	HS06_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029902		X					X	X	X	
18	HS06_F_2309 12	Sep 12, 2023		Soil	B23-Se0029903		X					X	X	X	
19	HS07_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029904		X			X		X	X	X	
20	HS07_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029905		X					X	X	X	
21	HS07_F_2309 12	Sep 12, 2023		Soil	B23-Se0029906		X					X	X	X	
22	HS08_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029907		X			X		X	X	X	
23	HS08_NW_23	Sep 12, 2023		Soil	B23-Se0029908		X					X	X	X	

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X								
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X	X	X
	0912														
24	HS08_F_230912	Sep 12, 2023		Soil	B23-Se0029909		X					X	X	X	
25	QC01_230912	Sep 12, 2023		Water	B23-Se0029910						X		X		
26	QC02_230912	Sep 12, 2023		Water	B23-Se0029911				X		X		X		
27	QC03_230912	Sep 12, 2023		Soil	B23-Se0029912	X						X	X	X	
28	CF01_230612	Sep 12, 2023		Soil	B23-Se0029913		X					X	X	X	
29	CF02_230612	Sep 12, 2023		Soil	B23-Se0029914		X					X	X	X	
30	CF03_230612	Sep 12, 2023		Soil	B23-Se0029915		X					X	X	X	
31	QC05_230912	Sep 12, 2023		Trip Blank (solid)	B23-Se0029916										X
32	QC06_230912	Sep 12, 2023		Trip Spike (solid)	B23-Se0029917			X							
Test Counts						1	27	1	1	8	30	30	30	28	1

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Se0029898 and 23-Se0029901: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

The sample received was not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-sample to be analysed accurately represented the sample received.

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

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1025750-S**
Project name **DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282781**
Received Date **Sep 12, 2023**

Client Sample ID			HS01_ASH_23 0912	HS01_NW_230 912	HS01_F_23091 2	HS02_ASH_23 0912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029886	B23- Se0029887	B23- Se0029888	B23- Se0029889
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	-	-	79
p-Terphenyl-d14 (surr.)	1	%	73	-	-	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			HS01_ASH_23 0912	HS01_NW_230 912	HS01_F_23091 2	HS02_ASH_23 0912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029886	B23- Se0029887	B23- Se0029888	B23- Se0029889
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	90	79	79	87
Tetrachloro-m-xylene (surr.)	1	%	79	100	80	79
Heavy Metals						
Arsenic	2	mg/kg	14	26	12	17
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	29	170	110	5.8
Copper	5	mg/kg	18	25	17	13
Lead	5	mg/kg	21	25	180	< 5
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	49	32	9.1
Zinc	5	mg/kg	64	67	56	14
Sample Properties						
% Moisture	1	%	4.0	5.7	11	12

Client Sample ID			HS02_NW_230 912	HS02_F_23091 2	HS03_ASH_23 0912	HS03_NW_230 912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029890	B23- Se0029891	B23- Se0029892	B23- Se0029893
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			HS02_NW_230 912	HS02_F_23091 2	HS03_ASH_23 0912	HS03_NW_230 912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029890	B23- Se0029891	B23- Se0029892	B23- Se0029893
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	67	-
p-Terphenyl-d14 (surr.)	1	%	-	-	63	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	76	72	72	88
Tetrachloro-m-xylene (surr.)	1	%	108	96	68	102
Heavy Metals						
Arsenic	2	mg/kg	12	14	9.1	9.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	96	180	< 5	150
Copper	5	mg/kg	10	26	9.2	26
Lead	5	mg/kg	< 5	< 5	< 5	5.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	57	5.2	59
Zinc	5	mg/kg	21	31	10	31
Sample Properties						
% Moisture	1	%	11	19	10	15

Client Sample ID			HS03_F_230912	HS04_ASH_230912	HS04_NW_230912	HS04_F_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029894	B23-Se0029895	B23-Se0029896	B23-Se0029897
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	83	-	-
p-Terphenyl-d14 (surr.)	1	%	-	81	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HS03_F_230912	HS04_ASH_230912	HS04_NW_230912	HS04_F_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029894	B23-Se0029895	B23-Se0029896	B23-Se0029897
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorodate (surr.)	1	%	INT	91	91	59
Tetrachloro-m-xylene (surr.)	1	%	68	83	91	84
Heavy Metals						
Arsenic	2	mg/kg	8.8	16	7.6	5.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	130	< 5	77	62
Copper	5	mg/kg	29	16	9.2	6.6
Lead	5	mg/kg	< 5	8.9	7.9	< 5
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	53	5.0	30	23
Zinc	5	mg/kg	28	24	29	17
Sample Properties						
% Moisture	1	%	11	10	15	12

Client Sample ID			HS05_ASH_230912	HS05_NW_230912	HS05_F_230912	HS06_ASH_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029898	B23-Se0029899	B23-Se0029900	B23-Se0029901
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	-	-	76
p-Terphenyl-d14 (surr.)	1	%	85	-	-	70

Client Sample ID			HS05_ASH_23 0912	HS05_NW_230 912	HS05_F_23091 2	HS06_ASH_23 0912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029898	B23- Se0029899	B23- Se0029900	B23- Se0029901
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	87	88	89	79
Tetrachloro-m-xylene (surr.)	1	%	75	86	87	75
Heavy Metals						
Arsenic	2	mg/kg	6.2	4.0	5.4	12
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	< 5	53	71	< 5
Copper	5	mg/kg	8.8	7.1	9.5	14
Lead	5	mg/kg	< 5	< 5	6.3	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.8	23	37	8.1
Zinc	5	mg/kg	14	18	28	31
Sample Properties						
% Moisture	1	%	16	15	14	19

Client Sample ID			HS06_NW_230 912	HS06_F_23091 2	HS07_ASH_23 0912	HS07_NW_230 912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029902	B23- Se0029903	B23- Se0029904	B23- Se0029905
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	81	-
p-Terphenyl-d14 (surr.)	1	%	-	-	83	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HS06_NW_230912	HS06_F_230912	HS07_ASH_230912	HS07_NW_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029902	B23-Se0029903	B23-Se0029904	B23-Se0029905
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorodate (surr.)	1	%	84	89	86	61
Tetrachloro-m-xylene (surr.)	1	%	82	94	78	74
Heavy Metals						
Arsenic	2	mg/kg	58	4.6	8.0	7.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	64	92	< 5	46
Copper	5	mg/kg	32	16	13	8.8
Lead	5	mg/kg	33	7.5	9.4	5.9
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	37	47	7.5	43
Zinc	5	mg/kg	260	31	17	36
Sample Properties						
% Moisture	1	%	16	13	11	13

Client Sample ID			HS07_F_230912	HS08_ASH_230912	HS08_NW_230912	HS08_F_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029906	B23-Se0029907	B23-Se0029908	B23-Se0029909
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	78	-	-
p-Terphenyl-d14 (surr.)	1	%	-	63	-	-

Client Sample ID			HS07_F_230912	HS08_ASH_230912	HS08_NW_230912	HS08_F_230912
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0029906	B23-Se0029907	B23-Se0029908	B23-Se0029909
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	70	82	60	74
Tetrachloro-m-xylene (surr.)	1	%	80	71	87	82
Heavy Metals						
Arsenic	2	mg/kg	2.4	17	2.5	2.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	39	< 5	70	94
Copper	5	mg/kg	8.9	14	11	18
Lead	5	mg/kg	< 5	33	< 5	5.1
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	5.2	48	45
Zinc	5	mg/kg	21	160	39	35
Sample Properties						
% Moisture	1	%	9.4	7.4	15	21

Client Sample ID			QC03_230912	CF01_230612	CF02_230612	CF03_230612
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0029912	B23- Se0029913	B23- Se0029914	B23- Se0029915
Date Sampled			Sep 12, 2023	Sep 12, 2023	Sep 12, 2023	Sep 12, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	80	58	69	58
Tetrachloro-m-xylene (surr.)	1	%	104	79	80	86
Heavy Metals						
Arsenic	2	mg/kg	2.1	3.9	8.9	5.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	40	140	160	170
Copper	5	mg/kg	6.4	81	60	99
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	31	45	48	51
Zinc	5	mg/kg	23	29	32	34
Sample Properties						
% Moisture	1	%	14	3.6	3.8	4.1

Client Sample ID			QC05_230912
Sample Matrix			Trip Blank (solid)
Eurofins Sample No.			B23-Se0029916
Date Sampled			Sep 12, 2023
Test/Reference	LOR	Unit	
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	141
Total Recoverable Hydrocarbons			
TRH C6-C10	20	mg/kg	< 20

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
Polycyclic Aromatic Hydrocarbons	Brisbane	Sep 15, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Brisbane	Sep 15, 2023	14 Days
- Method: LTM-ORG-2220 OCP and PCB in Soil and Water (USEPA 8270)			
Metals M8	Brisbane	Sep 15, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Brisbane	Sep 13, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Naphthalene	Brisbane	Sep 15, 2023	14 Days
- Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Brisbane	Sep 15, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Brisbane	Sep 15, 2023	14 Days
- Method: USEPA SW846 8260			
Total Recoverable Hydrocarbons	Brisbane	Sep 15, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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NSW 2067

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
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Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	HS01_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029886	X			X		X	X	X	
2	HS01_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029887	X					X	X	X	
3	HS01_F_2309 12	Sep 12, 2023		Soil	B23-Se0029888	X					X	X	X	
4	HS02_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029889	X			X		X	X	X	
5	HS02_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029890	X					X	X	X	
6	HS02_F_2309 12	Sep 12, 2023		Soil	B23-Se0029891	X					X	X	X	
7	HS03_ASH_2	Sep 12, 2023		Soil	B23-Se0029892	X			X		X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	30912													
8	HS03_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029893	X					X	X	X	
9	HS03_F_2309 12	Sep 12, 2023		Soil	B23-Se0029894	X					X	X	X	
10	HS04_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029895	X			X		X	X	X	
11	HS04_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029896	X					X	X	X	
12	HS04_F_2309 12	Sep 12, 2023		Soil	B23-Se0029897	X					X	X	X	
13	HS05_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029898	X			X		X	X	X	
14	HS05_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029899	X					X	X	X	
15	HS05_F_2309	Sep 12, 2023		Soil	B23-Se0029900	X					X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
12														
16	HS06_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029901	X			X		X	X	X	
17	HS06_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029902	X					X	X	X	
18	HS06_F_2309 12	Sep 12, 2023		Soil	B23-Se0029903	X					X	X	X	
19	HS07_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029904	X			X		X	X	X	
20	HS07_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029905	X					X	X	X	
21	HS07_F_2309 12	Sep 12, 2023		Soil	B23-Se0029906	X					X	X	X	
22	HS08_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029907	X			X		X	X	X	
23	HS08_NW_23	Sep 12, 2023		Soil	B23-Se0029908	X					X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	0912													
24	HS08_F_230912	Sep 12, 2023		Soil	B23-Se0029909	X					X	X	X	
25	QC01_230912	Sep 12, 2023		Water	B23-Se0029910					X		X		
26	QC02_230912	Sep 12, 2023		Water	B23-Se0029911			X		X		X		
27	QC03_230912	Sep 12, 2023		Soil	B23-Se0029912	X					X	X	X	
28	CF01_230612	Sep 12, 2023		Soil	B23-Se0029913	X					X	X	X	
29	CF02_230612	Sep 12, 2023		Soil	B23-Se0029914	X					X	X	X	
30	CF03_230612	Sep 12, 2023		Soil	B23-Se0029915	X					X	X	X	
31	QC05_230912	Sep 12, 2023		Trip Blank (solid)	B23-Se0029916									X
32	QC06_230912	Sep 12, 2023		Trip Spike (solid)	B23-Se0029917		X							
Test Counts						28	1	1	8	30	30	30	28	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
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	
Toxaphene	mg/kg	N/A			0.5	N/A	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/kg	< 20			20	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	91			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	126			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	113			70-130	Pass	
Benzo(g,h,i)perylene	%	121			70-130	Pass	
Benzo(k)fluoranthene	%	84			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a,h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	82			70-130	Pass	
Fluorene	%	84			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	78			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	87			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	103			70-130	Pass	
4,4'-DDD	%	77			70-130	Pass	
4,4'-DDE	%	103			70-130	Pass	
4,4'-DDT	%	118			70-130	Pass	
a-HCH	%	118			70-130	Pass	
Aldrin	%	103			70-130	Pass	
b-HCH	%	126			70-130	Pass	
d-HCH	%	79			70-130	Pass	
Dieldrin	%	95			70-130	Pass	
Endosulfan I	%	105			70-130	Pass	
Endosulfan II	%	113			70-130	Pass	
Endosulfan sulphate	%	93			70-130	Pass	
Endrin	%	71			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	105			70-130	Pass	
g-HCH (Lindane)	%	96			70-130	Pass	
Heptachlor	%	94			70-130	Pass	
Heptachlor epoxide	%	94			70-130	Pass	
Hexachlorobenzene	%	102			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor			%	108			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	105			80-120	Pass	
Cadmium			%	107			80-120	Pass	
Chromium			%	112			80-120	Pass	
Copper			%	112			80-120	Pass	
Lead			%	116			80-120	Pass	
Mercury			%	118			80-120	Pass	
Nickel			%	112			80-120	Pass	
Zinc			%	107			80-120	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
TRH C6-C9			%	101			70-130	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	102			70-130	Pass	
Toluene			%	104			70-130	Pass	
Ethylbenzene			%	116			70-130	Pass	
m&p-Xylenes			%	105			70-130	Pass	
Xylenes - Total*			%	104			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons									
TRH C6-C10			%	98			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B23-Se0029893	CP	%	99			70-130	Pass	
Acenaphthylene	B23-Se0029893	CP	%	91			70-130	Pass	
Anthracene	B23-Se0029893	CP	%	114			70-130	Pass	
Benz(a)anthracene	B23-Se0029893	CP	%	118			70-130	Pass	
Benzo(a)pyrene	B23-Se0029893	CP	%	101			70-130	Pass	
Benzo(b&i)fluoranthene	B23-Se0029893	CP	%	122			70-130	Pass	
Benzo(g,h,i)perylene	B23-Se0029893	CP	%	103			70-130	Pass	
Benzo(k)fluoranthene	B23-Se0029893	CP	%	110			70-130	Pass	
Chrysene	B23-Se0029893	CP	%	107			70-130	Pass	
Dibenz(a,h)anthracene	B23-Se0029893	CP	%	100			70-130	Pass	
Fluoranthene	B23-Se0029893	CP	%	92			70-130	Pass	
Indeno(1,2,3-cd)pyrene	B23-Se0029893	CP	%	122			70-130	Pass	
Naphthalene	B23-Se0029893	CP	%	93			70-130	Pass	
Phenanthrene	B23-Se0029893	CP	%	85			70-130	Pass	
Pyrene	B23-Se0029893	CP	%	89			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Se0029893	CP	%	117			70-130	Pass	
4,4'-DDD	B23-Se0029893	CP	%	86			70-130	Pass	
4,4'-DDE	B23-Se0029893	CP	%	115			70-130	Pass	
4,4'-DDT	B23-Se0029893	CP	%	124			70-130	Pass	
a-HCH	B23-Se0029893	CP	%	121			70-130	Pass	
Aldrin	B23-Se0029893	CP	%	123			70-130	Pass	
d-HCH	B23-Se0029893	CP	%	113			70-130	Pass	
Dieldrin	B23-Se0029893	CP	%	102			70-130	Pass	
Endosulfan I	B23-Se0029893	CP	%	119			70-130	Pass	
Endosulfan sulphate	B23-Se0029893	CP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	B23-Se0029893	CP	%	88			70-130	Pass	
Endrin ketone	B23-Se0029893	CP	%	108			70-130	Pass	
g-HCH (Lindane)	B23-Se0029893	CP	%	114			70-130	Pass	
Heptachlor	B23-Se0029893	CP	%	100			70-130	Pass	
Heptachlor epoxide	B23-Se0029893	CP	%	109			70-130	Pass	
Hexachlorobenzene	B23-Se0029893	CP	%	114			70-130	Pass	
Methoxychlor	B23-Se0029893	CP	%	113			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B23-Se0029894	CP	%	91			70-130	Pass	
Acenaphthylene	B23-Se0029894	CP	%	81			70-130	Pass	
Anthracene	B23-Se0029894	CP	%	79			70-130	Pass	
Benz(a)anthracene	B23-Se0029894	CP	%	102			70-130	Pass	
Benzo(a)pyrene	B23-Se0029894	CP	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	B23-Se0029894	CP	%	106			70-130	Pass	
Benzo(k)fluoranthene	B23-Se0029894	CP	%	104			70-130	Pass	
Chrysene	B23-Se0029894	CP	%	106			70-130	Pass	
Dibenz(a,h)anthracene	B23-Se0029894	CP	%	75			70-130	Pass	
Fluoranthene	B23-Se0029894	CP	%	91			70-130	Pass	
Fluorene	B23-Se0029894	CP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	B23-Se0029894	CP	%	73			70-130	Pass	
Naphthalene	B23-Se0029894	CP	%	89			70-130	Pass	
Phenanthrene	B23-Se0029894	CP	%	77			70-130	Pass	
Pyrene	B23-Se0029894	CP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Se0029894	CP	%	89			70-130	Pass	
4.4'-DDD	B23-Se0029894	CP	%	94			70-130	Pass	
4.4'-DDE	B23-Se0029894	CP	%	92			70-130	Pass	
4.4'-DDT	B23-Se0029894	CP	%	100			70-130	Pass	
a-HCH	B23-Se0029894	CP	%	80			70-130	Pass	
Aldrin	B23-Se0029894	CP	%	89			70-130	Pass	
b-HCH	B23-Se0029894	CP	%	85			70-130	Pass	
d-HCH	B23-Se0029894	CP	%	85			70-130	Pass	
Endosulfan I	B23-Se0029894	CP	%	86			70-130	Pass	
Endosulfan II	B23-Se0029894	CP	%	91			70-130	Pass	
Endosulfan sulphate	B23-Se0029894	CP	%	82			70-130	Pass	
Endrin	B23-Se0029894	CP	%	84			70-130	Pass	
Endrin ketone	B23-Se0029894	CP	%	95			70-130	Pass	
g-HCH (Lindane)	B23-Se0029894	CP	%	81			70-130	Pass	
Heptachlor	B23-Se0029894	CP	%	118			70-130	Pass	
Heptachlor epoxide	B23-Se0029894	CP	%	87			70-130	Pass	
Hexachlorobenzene	B23-Se0029894	CP	%	90			70-130	Pass	
Methoxychlor	B23-Se0029894	CP	%	120			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0029896	CP	%	103			75-125	Pass	
Cadmium	B23-Se0029896	CP	%	113			75-125	Pass	
Chromium	B23-Se0029896	CP	%	78			75-125	Pass	
Copper	B23-Se0029896	CP	%	110			75-125	Pass	
Lead	B23-Se0029896	CP	%	112			75-125	Pass	
Mercury	B23-Se0029896	CP	%	122			75-125	Pass	
Nickel	B23-Se0029896	CP	%	102			75-125	Pass	
Zinc	B23-Se0029896	CP	%	112			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0029900	CP	%	99			75-125	Pass	
Cadmium	B23-Se0029900	CP	%	114			75-125	Pass	
Chromium	B23-Se0029900	CP	%	77			75-125	Pass	
Copper	B23-Se0029900	CP	%	103			75-125	Pass	
Lead	B23-Se0029900	CP	%	105			75-125	Pass	
Mercury	B23-Se0029900	CP	%	108			75-125	Pass	
Nickel	B23-Se0029900	CP	%	84			75-125	Pass	
Zinc	B23-Se0029900	CP	%	90			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B23-Se0029907	CP	%	85			70-130	Pass	
Acenaphthylene	B23-Se0029907	CP	%	77			70-130	Pass	
Anthracene	B23-Se0029907	CP	%	70			70-130	Pass	
Fluoranthene	B23-Se0029907	CP	%	78			70-130	Pass	
Fluorene	B23-Se0029907	CP	%	83			70-130	Pass	
Naphthalene	B23-Se0029907	CP	%	87			70-130	Pass	
Phenanthrene	B23-Se0029907	CP	%	70			70-130	Pass	
Pyrene	B23-Se0029907	CP	%	71			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Se0029907	CP	%	88			70-130	Pass	
4,4'-DDD	B23-Se0029907	CP	%	93			70-130	Pass	
4,4'-DDE	B23-Se0029907	CP	%	85			70-130	Pass	
4,4'-DDT	B23-Se0029907	CP	%	87			70-130	Pass	
a-HCH	B23-Se0029907	CP	%	80			70-130	Pass	
Aldrin	B23-Se0029907	CP	%	87			70-130	Pass	
b-HCH	B23-Se0029907	CP	%	82			70-130	Pass	
d-HCH	B23-Se0029907	CP	%	80			70-130	Pass	
Dieldrin	B23-Se0029907	CP	%	94			70-130	Pass	
Endosulfan I	B23-Se0029907	CP	%	82			70-130	Pass	
Endosulfan II	B23-Se0029907	CP	%	81			70-130	Pass	
Endosulfan sulphate	B23-Se0029907	CP	%	72			70-130	Pass	
Endrin	B23-Se0029907	CP	%	80			70-130	Pass	
Endrin ketone	B23-Se0029907	CP	%	86			70-130	Pass	
g-HCH (Lindane)	B23-Se0029907	CP	%	79			70-130	Pass	
Heptachlor	B23-Se0029907	CP	%	114			70-130	Pass	
Heptachlor epoxide	B23-Se0029907	CP	%	88			70-130	Pass	
Hexachlorobenzene	B23-Se0029907	CP	%	89			70-130	Pass	
Methoxychlor	B23-Se0029907	CP	%	100			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0029907	CP	%	104			75-125	Pass	
Cadmium	B23-Se0029907	CP	%	94			75-125	Pass	
Chromium	B23-Se0029907	CP	%	99			75-125	Pass	
Copper	B23-Se0029907	CP	%	100			75-125	Pass	
Lead	B23-Se0029907	CP	%	121			75-125	Pass	
Mercury	B23-Se0029907	CP	%	101			75-125	Pass	
Nickel	B23-Se0029907	CP	%	101			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	B23-Se0023136	NCP	%	78			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
BTEX				Result 1					
Benzene	B23-Se0023136	NCP	%	82			70-130	Pass	
Toluene	B23-Se0023136	NCP	%	82			70-130	Pass	
Ethylbenzene	B23-Se0023136	NCP	%	81			70-130	Pass	
m&p-Xylenes	B23-Se0023136	NCP	%	81			70-130	Pass	
o-Xylene	B23-Se0023136	NCP	%	80			70-130	Pass	
Xylenes - Total*	B23-Se0023136	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	B23-Se0023136	NCP	%	78			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	B23-Au0066888	NCP	mg/kg	-	-	-	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-Se0029890	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-Se0029890	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0029890	CP	mg/kg	12	9.8	22	30%	Pass
Cadmium	B23-Se0029890	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0029890	CP	mg/kg	96	79	19	30%	Pass
Copper	B23-Se0029890	CP	mg/kg	10	9.4	9.7	30%	Pass
Lead	B23-Se0029890	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	B23-Se0029890	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0029890	CP	mg/kg	24	20	19	30%	Pass
Zinc	B23-Se0029890	CP	mg/kg	21	17	18	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0029895	CP	%	10	13	24	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0029900	CP	%	14	14	1.8	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-Se0029901	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0029901	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0029901	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0029906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0029906	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0029906	CP	mg/kg	2.4	2.4	2.3	30%	Pass
Cadmium	B23-Se0029906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0029906	CP	mg/kg	39	43	11	30%	Pass
Copper	B23-Se0029906	CP	mg/kg	8.9	50	140	30%	Fail
Lead	B23-Se0029906	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	B23-Se0029906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0029906	CP	mg/kg	25	42	52	30%	Fail
Zinc	B23-Se0029906	CP	mg/kg	21	31	38	30%	Fail
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0029906	CP	%	9.4	8.8	5.8	30%	Pass

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Se0029913	CP	mg/kg	3.9	2.8	31	30%	Fail	Q15
Cadmium	B23-Se0029913	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	B23-Se0029913	CP	mg/kg	140	160	12	30%	Pass	
Copper	B23-Se0029913	CP	mg/kg	81	73	10	30%	Pass	
Lead	B23-Se0029913	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	B23-Se0029913	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	B23-Se0029913	CP	mg/kg	45	51	13	30%	Pass	
Zinc	B23-Se0029913	CP	mg/kg	29	31	6.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Naphthalene	B23-Se0023125	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	B23-Se0023125	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	B23-Se0023125	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	B23-Se0023125	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	B23-Se0023125	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	B23-Se0023125	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	B23-Se0023125	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	B23-Se0023125	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C10	B23-Se0023125	NCP	mg/kg	< 20	< 20	<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
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-Volatile
Laxman Dias	Senior Analyst-Asbestos
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1025750-W**
Project name **DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282781**
Received Date **Sep 12, 2023**

Client Sample ID			QC01_230912	QC02_230912
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Se0029910	B23- Se0029911
Date Sampled			Sep 12, 2023	Sep 12, 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
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
Dibutylchloredate (surr.)	1	%	121	77
Tetrachloro-m-xylene (surr.)	1	%	66	84
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
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

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

Metals M8

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

Testing Site

Melbourne

Brisbane

Extracted

Sep 15, 2023

Sep 14, 2023

Holding Time

7 Days

28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF FOREIGN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1025750
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 12, 2023 3:35 PM
Due: Sep 19, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	HS01_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029886	X			X		X	X	X	
2	HS01_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029887	X					X	X	X	
3	HS01_F_2309 12	Sep 12, 2023		Soil	B23-Se0029888	X					X	X	X	
4	HS02_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029889	X			X		X	X	X	
5	HS02_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029890	X					X	X	X	
6	HS02_F_2309 12	Sep 12, 2023		Soil	B23-Se0029891	X					X	X	X	
7	HS03_ASH_2	Sep 12, 2023		Soil	B23-Se0029892	X			X		X	X	X	

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Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	30912													
8	HS03_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029893	X					X	X	X	
9	HS03_F_2309 12	Sep 12, 2023		Soil	B23-Se0029894	X					X	X	X	
10	HS04_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029895	X			X		X	X	X	
11	HS04_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029896	X					X	X	X	
12	HS04_F_2309 12	Sep 12, 2023		Soil	B23-Se0029897	X					X	X	X	
13	HS05_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029898	X			X		X	X	X	
14	HS05_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029899	X					X	X	X	
15	HS05_F_2309	Sep 12, 2023		Soil	B23-Se0029900	X					X	X	X	

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Sample Detail						Asbestos - WA guidelines	HOLD	Sample Comment	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	12													
16	HS06_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029901	X			X		X	X	X	
17	HS06_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029902	X					X	X	X	
18	HS06_F_2309 12	Sep 12, 2023		Soil	B23-Se0029903	X					X	X	X	
19	HS07_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029904	X			X		X	X	X	
20	HS07_NW_23 0912	Sep 12, 2023		Soil	B23-Se0029905	X					X	X	X	
21	HS07_F_2309 12	Sep 12, 2023		Soil	B23-Se0029906	X					X	X	X	
22	HS08_ASH_2 30912	Sep 12, 2023		Soil	B23-Se0029907	X			X		X	X	X	
23	HS08_NW_23	Sep 12, 2023		Soil	B23-Se0029908	X					X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Melbourne Laboratory - NATA # 1261 Site # 1254										X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X								
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X
	0912													
24	HS08_F_230912	Sep 12, 2023		Soil	B23-Se0029909	X					X	X	X	
25	QC01_230912	Sep 12, 2023		Water	B23-Se0029910					X		X		
26	QC02_230912	Sep 12, 2023		Water	B23-Se0029911			X		X		X		
27	QC03_230912	Sep 12, 2023		Soil	B23-Se0029912	X					X	X	X	
28	CF01_230612	Sep 12, 2023		Soil	B23-Se0029913	X					X	X	X	
29	CF02_230612	Sep 12, 2023		Soil	B23-Se0029914	X					X	X	X	
30	CF03_230612	Sep 12, 2023		Soil	B23-Se0029915	X					X	X	X	
31	QC05_230912	Sep 12, 2023		Trip Blank (solid)	B23-Se0029916									X
32	QC06_230912	Sep 12, 2023		Trip Spike (solid)	B23-Se0029917		X							
Test Counts						28	1	1	8	30	30	30	28	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-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	
g-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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	100			70-130	Pass	
4,4'-DDD	%	117			70-130	Pass	
4,4'-DDE	%	116			70-130	Pass	
4,4'-DDT	%	91			70-130	Pass	
a-HCH	%	94			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-HCH	%	90			70-130	Pass	
d-HCH	%	119			70-130	Pass	
Dieldrin	%	89			70-130	Pass	
Endosulfan I	%	108			70-130	Pass	
Endosulfan II	%	122			70-130	Pass	
Endosulfan sulphate	%	121			70-130	Pass	
Endrin	%	109			70-130	Pass	
Endrin aldehyde	%	104			70-130	Pass	
Endrin ketone	%	102			70-130	Pass	
g-HCH (Lindane)	%	112			70-130	Pass	
Heptachlor	%	126			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide			%	95			70-130	Pass	
Hexachlorobenzene			%	90			70-130	Pass	
Methoxychlor			%	93			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	102			80-120	Pass	
Cadmium			%	103			80-120	Pass	
Chromium			%	108			80-120	Pass	
Copper			%	104			80-120	Pass	
Lead			%	109			80-120	Pass	
Mercury			%	113			80-120	Pass	
Nickel			%	106			80-120	Pass	
Zinc			%	103			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-Se0013200	NCP	%	89			70-130	Pass	
4.4'-DDD	S23-Se0013200	NCP	%	75			70-130	Pass	
4.4'-DDE	S23-Se0013200	NCP	%	81			70-130	Pass	
4.4'-DDT	S23-Se0013200	NCP	%	80			70-130	Pass	
a-HCH	S23-Se0013200	NCP	%	87			70-130	Pass	
Aldrin	S23-Se0013200	NCP	%	87			70-130	Pass	
b-HCH	S23-Se0013200	NCP	%	111			70-130	Pass	
d-HCH	S23-Se0013200	NCP	%	99			70-130	Pass	
Dieldrin	S23-Se0013200	NCP	%	76			70-130	Pass	
Endosulfan I	S23-Se0013200	NCP	%	93			70-130	Pass	
Endosulfan II	S23-Se0013200	NCP	%	89			70-130	Pass	
Endosulfan sulphate	S23-Se0013200	NCP	%	73			70-130	Pass	
Endrin	S23-Se0013200	NCP	%	98			70-130	Pass	
Endrin aldehyde	S23-Se0013200	NCP	%	79			70-130	Pass	
Endrin ketone	S23-Se0013200	NCP	%	109			70-130	Pass	
g-HCH (Lindane)	S23-Se0013200	NCP	%	91			70-130	Pass	
Heptachlor	S23-Se0013200	NCP	%	71			70-130	Pass	
Heptachlor epoxide	S23-Se0013200	NCP	%	81			70-130	Pass	
Hexachlorobenzene	S23-Se0013200	NCP	%	79			70-130	Pass	
Methoxychlor	S23-Se0013200	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0029726	NCP	%	119			75-125	Pass	
Cadmium	B23-Se0029726	NCP	%	115			75-125	Pass	
Chromium	B23-Se0029726	NCP	%	104			75-125	Pass	
Copper	B23-Se0029726	NCP	%	95			75-125	Pass	
Lead	B23-Se0029726	NCP	%	101			75-125	Pass	
Mercury	B23-Se0029726	NCP	%	106			75-125	Pass	
Nickel	B23-Se0029726	NCP	%	97			75-125	Pass	
Zinc	B23-Se0029726	NCP	%	96			75-125	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	M23-Se0031449	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	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			
a-HCH	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-Se0031449	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-Se0031449	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Se0031691	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	B23-Se0031691	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	B23-Se0031691	NCP	mg/L	0.003	0.003	5.6	30%	Pass	
Copper	B23-Se0031691	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	B23-Se0031691	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	B23-Se0031691	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	B23-Se0031691	NCP	mg/L	0.092	0.096	4.1	30%	Pass	
Zinc	B23-Se0031691	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	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

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Metal



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

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1027451

Company TETRA TECH COFFEY		Project No 282781		Project Manager JEREMY WICKS@TETRATECH.COM		Sampler(s) AM		AM	
Address LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Contact Name alistair mcclay		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Phone No _0410996070		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Special Directions		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Purchase Order		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Quote ID No		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Analyses		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Where metals are requested, please specify "Total" or "Filtered". SUITES code must be used to attract SUITE pricing.		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Matrix Solid (S) Water (W)		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Sampled Date/Time dd/mm/yy hh:mm		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Client Sample ID		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
1 (DUP) 2001-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
2 (DUP) 2001-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
3 (PB) 2003-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
4 (FB) 2004-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
5 (TB) 2005-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
6 (FB) 2006-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
7 (FB) 2007-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
8 (DUP) 2009-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
9 (FB) 2009-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
10 (FB) 2009-230918 18/05		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Total Counts		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Method of Shipment		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Counter (#)		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Received By		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Received By		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Laboratory Use Only		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Signature		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Signature		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Date		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Date		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Time		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Time		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Temperature		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	
Report No		Project Name DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESerial, EQUIS etc		ESDAT + EXCEL		AM	



CHAIN OF CUSTODY RECORD

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Company
TETRA TECH COFFEY

Address
LEVEL 5, 12 CREEK STREET, BRISBANE QLD 4000

Contact Name
allstair mclay

Phone No
04103986070

Special Directions

Purchase Order

Quote ID No

Client Sample ID

Sampled Date/Time
dd/mm/yyyy hh:mm

Matrix
Solid (S)
Water (W)

Project No
282781

Project Name
DEPARTMENT OF VETERAN AFFAIRS-
Greenslopes Remediation

Project Manager
EDD Format
ESDA, EQLS etc

ESDAT + EXCEL

Sample(s)
AM

Handed over by
AM

Email for Invoice
JEREMY.WICKS@TETRATECH.COM

Email for Results
JEREMY.WICKS@TETRATECH.COM

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

Containers
Change container type & size if necessary

Other (Asbestos AS4964, WA Guidelines)

Sample Comments
/ Dangerous Goods Hazard Warning

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

Overnight (reporting by 9am) ♦

Same day ♦

2 days ♦

3 days ♦

5 days (Standard)

Other

Surcharge will apply

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

8 METALS

OCF

ACM NEPM

HOLD

Method of Shipment

Method of Shipment

Method of Shipment

Method of Shipment

Method of Shipment

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Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sampler(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenlopes Remediation		EDD Format ES&I, E&IS etc		ESDAT + EXCEL		Handed over by		AM	
Contact Name		alstair mcley		Analyses		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.									
Phone No		_0410996070		8METALS		ACM NEPM									
Purchase Order				OCP		HOLD									
Quote ID No															
Special Directions															
Ne		Client Sample ID		Sampled Date/Time dd/mm/yyyy hh:mm		Matrix Solid (S) Wet (W)									
1		HS10A-NM-230918-18/9/23		S											
2		HS10A-Flor-		S											
3		HS10B-TS-		S											
4		-ASH-		S											
5		-NM-		S											
6		-Flor-		S											
7		HS11-ASH-		S											
8		-NM-		S											
9		-Flor-		S											
10		HS12-ASH-		S											
Method of Shipment		<input checked="" type="checkbox"/> Courier #) <input checked="" type="checkbox"/> Hand Delivered		Total Counts		10 10 10									
Laboratory Use Only		Received By Received By		Signature		Signature		Date		Date		Time		Temperature Report No	
Eurofins Environment Testing Australia Pty Ltd		EnviroSales@eurofins.com		Signature		Signature		Date		Date		Time		Temperature Report No	



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☐ Sydney Laboratory

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+61 2 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1/21 Smallwood Place, Murarie, QLD 4172
+61 7 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory

46-48 Banksia Road, Westport, WA 6106
+61 8 6253 4444 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory

6 Monmery Road Dandenong South VIC 3175
+61 3 8564 5000 EnviroSampleVIC@eurofins.com

Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Samplers(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESDAT, EXCEL etc		ESDAT + EXCEL		Handed over by		AM	
Contact Name		allstair mclay		Analyses		8METALS		OCF		ACM NCPM		Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		_0410996070		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		HOLD						Email for Results		JEREMY.WICKS@TETRATECH.COM	
Special Directions												Containers		Required Turnaround Time (TAT) Default will be 5 days if not ticked.	
Purchase Order												500mL Plastic		<input type="checkbox"/> Overnight (reporting by 9am)◆	
Quote ID No												250mL Plastic		<input type="checkbox"/> Same day◆ <input type="checkbox"/> 1 day◆	
												125mL Plastic		<input type="checkbox"/> 2 days◆ <input type="checkbox"/> 3 days◆	
												200mL Amber Glass		<input type="checkbox"/> 5 days (Standard)	
												40mL VOA vial		<input type="checkbox"/> Other()	
												500mL PFAS Bottle			
												Jar (Glass or HDPE)			
												Other (Asbestos AS4964, WA Guidelines)			
												Sample Comments		/ Dangerous Goods Hazard Warning	
No		Client Sample ID		Sampled Date/Time dd/mm/yyyy hh:mm		Matrix Solid (S) Water (W)									
1		HS12-BW-23018-18/7/23				S		X							
2		HS12-Slow-23018-				S		X							
3		CF-04-				S		X							
4		CF-05-				S		X							
5		CE-06-				S		X							
6						S									
7						S									
8						S									
9						S									
10						S									
		Total Counts													
Method of Shipment		<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered													
Laboratory Use Only		Received By Received By													
Eurofins Environment Testing Australia Pty Ltd		EnviroSales@eurofins.com													

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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 NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID:	282781
Turnaround time:	5 Day
Date/Time received	Sep 19, 2023 1:10 PM
Eurofins reference	1027451

Sample Information

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

Notes

Please note: no asbestos bag provided for QC01_230918 so testing has been cancelled. Extra sample QC07_230918 and HS10_230918 was received and placed on hold.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	QC01-230918	Sep 18, 2023		Soil	B23-Se0044250				X	X	X	
2	QC03-230918	Sep 18, 2023		Water	B23-Se0044251			X		X		
3	QC04-230918	Sep 18, 2023		Water	B23-Se0044252			X		X		
4	QC05-230918	Sep 18, 2023		Trip Blank (solid)	B23-Se0044253							X
5	HS09_ASH_230918	Sep 18, 2023		Soil	B23-Se0044254	X			X	X	X	
6	HS09_NW_230918	Sep 18, 2023		Soil	B23-Se0044255	X			X	X	X	
7	HS09_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044256	X			X	X	X	
8	HS10_TS_230918	Sep 18, 2023		Soil	B23-Se0044257	X			X	X	X	



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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
9	HS10_ASH_230918	Sep 18, 2023		Soil	B23-Se0044258	X			X	X	X	
10	HS10_NW_230918	Sep 18, 2023		Soil	B23-Se0044259	X			X	X	X	
11	HS10_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044260	X			X	X	X	
12	HS10A_TS_230918	Sep 18, 2023		Soil	B23-Se0044261	X			X	X	X	
13	HS10A_ASH_230918	Sep 18, 2023		Soil	B23-Se0044262	X			X	X	X	
14	HS10A_NW_230918	Sep 18, 2023		Soil	B23-Se0044263	X			X	X	X	
15	HS10A_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044264	X			X	X	X	
16	HS10B_TS_230918	Sep 18, 2023		Soil	B23-Se0044265	X			X	X	X	



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email: EnviroSales@eurofins.com

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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
17	HS10B_ASH_230918	Sep 18, 2023		Soil	B23-Se0044266	X			X	X	X	
18	HS10B_NW_230918	Sep 18, 2023		Soil	B23-Se0044267	X			X	X	X	
19	HS10B_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044268	X			X	X	X	
20	HS11_ASH_230918	Sep 18, 2023		Soil	B23-Se0044269	X			X	X	X	
21	HS11_NW_230918	Sep 18, 2023		Soil	B23-Se0044270	X			X	X	X	
22	HS11_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044271	X			X	X	X	
23	HS12_ASH_230918	Sep 18, 2023		Soil	B23-Se0044272	X			X	X	X	
24	HS12_NW_230918	Sep 18, 2023		Soil	B23-Se0044273	X			X	X	X	



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	HS12_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044274	X			X	X	X	
26	CF_04_230918	Sep 18, 2023		Soil	B23-Se0044275	X			X	X	X	
27	CF_05_230918	Sep 18, 2023		Soil	B23-Se0044276	X			X	X	X	
28	CF_06_230918	Sep 18, 2023		Soil	B23-Se0044277	X			X	X	X	
29	QC07-230918	Sep 18, 2023		Water	B23-Se0044579		X					
30	HS10_230918	Sep 18, 2023		Soil	B23-Se0044580		X					
Test Counts						24	2	27	27	27	25	1

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Jeremy Wicks
Report 1027451-AID
Project Name DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID 282781
Received Date Sep 19, 2023
Date Reported Oct 03, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID 282781
Date Sampled Sep 18, 2023
Report 1027451-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS09_ASH_230918	23-Se0044254	Sep 18, 2023	Approximate Sample 498g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS09_NW_230918	23-Se0044255	Sep 18, 2023	Approximate Sample 612g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS09_FLOOR_230918	23-Se0044256	Sep 18, 2023	Approximate Sample 576g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10_TS_230918	23-Se0044257	Sep 18, 2023	Approximate Sample 711g Sample consisted of: Brown fine-grained clayey soil and rocks	FA: Chrysotile asbestos detected in soft synthetic material. Approximate raw weight of FA = 0.0065g Estimated asbestos content in FA = 0.0020g* AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.00040g* Estimated asbestos content in AF = 0.00040g* Total estimated asbestos content in FA and AF = 0.0024g* Total estimated asbestos concentration in FA and AF = 0.00033% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS10_ASH_230918	23-Se0044258	Sep 18, 2023	Approximate Sample 633g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10_NW_230918	23-Se0044259	Sep 18, 2023	Approximate Sample 597g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10_FLOOR_230918	23-Se0044260	Sep 18, 2023	Approximate Sample 424g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10A_TS_230918	23-Se0044261	Sep 18, 2023	Approximate Sample 548g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10A_ASH_230918	23-Se0044262	Sep 18, 2023	Approximate Sample 739g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10A_NW_230918	23-Se0044263	Sep 18, 2023	Approximate Sample 488g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10A_FLOOR_230918	23-Se0044264	Sep 18, 2023	Approximate Sample 558g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10B_TS_230918	23-Se0044265	Sep 18, 2023	Approximate Sample 699g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10B_ASH_230918	23-Se0044266	Sep 18, 2023	Approximate Sample 664g Sample consisted of: Brown fine-grained clayey soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10B_NW_230918	23-Se0044267	Sep 18, 2023	Approximate Sample 627g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS10B_FLOOR_230918	23-Se0044268	Sep 18, 2023	Approximate Sample 559g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS11_ASH_230918	23-Se0044269	Sep 18, 2023	Approximate Sample 599g Sample consisted of: Brown coarse-grained soil, coal, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS11_NW_230918	23-Se0044270	Sep 18, 2023	Approximate Sample 527g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HS11_FLOOR_230918	23-Se0044271	Sep 18, 2023	Approximate Sample 502g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS12_ASH_230918	23-Se0044272	Sep 18, 2023	Approximate Sample 557g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS12_NW_230918	23-Se0044273	Sep 18, 2023	Approximate Sample 649g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HS12_FLOOR_230918	23-Se0044274	Sep 18, 2023	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
CF_04_230918	23-Se0044275	Sep 18, 2023	Approximate Sample 1280g Sample consisted of: Grey coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
CF_05_230918	23-Se0044276	Sep 18, 2023	Approximate Sample 1154g Sample consisted of: Grey coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
CF_06_230918	23-Se0044277	Sep 18, 2023	Approximate Sample 947g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 19, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	QC01-230918	Sep 18, 2023		Soil	B23-Se0044250				X	X	X	
2	QC03-230918	Sep 18, 2023		Water	B23-Se0044251			X		X		
3	QC04-230918	Sep 18, 2023		Water	B23-Se0044252			X		X		
4	QC05-230918	Sep 18, 2023		Trip Blank (solid)	B23-Se0044253							X
5	HS09_ASH_230918	Sep 18, 2023		Soil	B23-Se0044254	X			X	X	X	
6	HS09_NW_230918	Sep 18, 2023		Soil	B23-Se0044255	X			X	X	X	
7	HS09_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044256	X			X	X	X	
8	HS10_TS_230918	Sep 18, 2023		Soil	B23-Se0044257	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Order No.:
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Received: Sep 19, 2023 1:10 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
9	HS10_ASH_2 30918	Sep 18, 2023		Soil	B23-Se0044258	X			X	X	X	
10	HS10_NW_23 0918	Sep 18, 2023		Soil	B23-Se0044259	X			X	X	X	
11	HS10_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044260	X			X	X	X	
12	HS10A_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044261	X			X	X	X	
13	HS10A_ASH_ 230918	Sep 18, 2023		Soil	B23-Se0044262	X			X	X	X	
14	HS10A_NW_2 30918	Sep 18, 2023		Soil	B23-Se0044263	X			X	X	X	
15	HS10A_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044264	X			X	X	X	
16	HS10B_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044265	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
17	HS10B_ASH_230918	Sep 18, 2023		Soil	B23-Se0044266	X			X	X	X	
18	HS10B_NW_230918	Sep 18, 2023		Soil	B23-Se0044267	X			X	X	X	
19	HS10B_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044268	X			X	X	X	
20	HS11_ASH_230918	Sep 18, 2023		Soil	B23-Se0044269	X			X	X	X	
21	HS11_NW_230918	Sep 18, 2023		Soil	B23-Se0044270	X			X	X	X	
22	HS11_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044271	X			X	X	X	
23	HS12_ASH_230918	Sep 18, 2023		Soil	B23-Se0044272	X			X	X	X	
24	HS12_NW_230918	Sep 18, 2023		Soil	B23-Se0044273	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	HS12_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044274	X			X	X	X	
26	CF_04_230918	Sep 18, 2023		Soil	B23-Se0044275	X			X	X	X	
27	CF_05_230918	Sep 18, 2023		Soil	B23-Se0044276	X			X	X	X	
28	CF_06_230918	Sep 18, 2023		Soil	B23-Se0044277	X			X	X	X	
29	QC07-230918	Sep 18, 2023		Water	B23-Se0044579		X					
30	HS10_230918	Sep 18, 2023		Soil	B23-Se0044580		X					
Test Counts						24	2	27	27	27	25	1

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Se0044254, 23-Se0044260 and 23-Se0044263: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos

Authorised by:

Sayeed Abu Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1027451-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION**
Project ID **282781**
Received Date **Sep 19, 2023**

Client Sample ID			QC01-230918	QC05-230918	HS09_ASH_23_0918	HS09_NW_230_918
Sample Matrix			Soil	Trip Blank (solid)	Soil	Soil
Eurofins Sample No.			B23-Se0044250	B23-Se0044253	B23-Se0044254	B23-Se0044255
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 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
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	%	108	-	INT	95
Tetrachloro-m-xylene (surr.)	1	%	52	-	100	INT
Heavy Metals						
Arsenic	2	mg/kg	15	-	41	6.3
Cadmium	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chromium	5	mg/kg	22	-	40	50
Copper	5	mg/kg	29	-	22	9.3
Lead	5	mg/kg	98	-	230	8.7
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	-	13	24
Zinc	5	mg/kg	160	-	190	22

Client Sample ID			QC01-230918	QC05-230918	HS09_ASH_23_0918	HS09_NW_230_918
Sample Matrix			Soil	Trip Blank (solid)	Soil	Soil
Eurofins Sample No.			B23-Se0044250	B23-Se0044253	B23-Se0044254	B23-Se0044255
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	6.3	-	9.8	13
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	113	-	-
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	< 20	-	-

Client Sample ID			HS09_FLOOR_230918	HS10_TS_230918	HS10_ASH_23_0918	HS10_NW_230_918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044256	B23-Se0044257	B23-Se0044258	B23-Se0044259
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			HS09_FLOOR_230918	HS10_TS_230918	HS10_ASH_230918	HS10_NW_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044256	B23-Se0044257	B23-Se0044258	B23-Se0044259
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	INT	126	INT	INT
Tetrachloro-m-xylene (surr.)	1	%	91	53	101	95
Heavy Metals						
Arsenic	2	mg/kg	3.0	39	3.2	8.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	67	28	15	45
Copper	5	mg/kg	11	18	13	9.1
Lead	5	mg/kg	10	87	34	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	36	14	12	24
Zinc	5	mg/kg	29	96	62	23
Sample Properties						
% Moisture	1	%	4.3	7.6	13	18

Client Sample ID			HS10_FLOOR_230918	HS10A_TS_230918	HS10A_ASH_230918	HS10A_NW_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044260	B23-Se0044261	B23-Se0044262	B23-Se0044263
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			HS10_FLOOR_230918	HS10A_TS_230918	HS10A_ASH_230918	HS10A_NW_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044260	B23-Se0044261	B23-Se0044262	B23-Se0044263
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	INT	77	INT	54
Tetrachloro-m-xylene (surr.)	1	%	96	73	99	76
Heavy Metals						
Arsenic	2	mg/kg	2.3	40	7.8	3.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	75	18	7.7	93
Copper	5	mg/kg	13	28	14	16
Lead	5	mg/kg	< 5	130	26	7.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	37	8.7	6.8	43
Zinc	5	mg/kg	26	170	48	36
Sample Properties						
% Moisture	1	%	22	2.3	15	18

Client Sample ID			HS10A_FLOOR_230918	HS10B_TS_230918	HS10B_ASH_230918	HS10B_NW_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044264	B23-Se0044265	B23-Se0044266	B23-Se0044267
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	76	79	74	INT
Tetrachloro-m-xylene (surr.)	1	%	76	73	68	64

Client Sample ID			HS10A_FLOOR_230918	HS10B_TS_230918	HS10B_ASH_230918	HS10B_NW_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044264	B23-Se0044265	B23-Se0044266	B23-Se0044267
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.7	5.1	75	2.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	88	22	24	66
Copper	5	mg/kg	15	13	21	11
Lead	5	mg/kg	6.2	42	30	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	42	11	16	31
Zinc	5	mg/kg	34	100	56	25
Sample Properties						
% Moisture	1	%	21	5.4	14	18

Client Sample ID			HS10B_FLOOR_230918	HS11_ASH_230918	HS11_NW_230918	HS11_FLOOR_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044268	B23-Se0044269	B23-Se0044270	B23-Se0044271
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	84	INT	INT	65
Tetrachloro-m-xylene (surr.)	1	%	INT	63	66	131

Client Sample ID			HS10B_FLOOR_230918	HS11_ASH_230918	HS11_NW_230918	HS11_FLOOR_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044268	B23-Se0044269	B23-Se0044270	B23-Se0044271
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.5	13	8.1	8.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	95	39	170	160
Copper	5	mg/kg	15	18	21	22
Lead	5	mg/kg	< 5	48	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	45	16	55	56
Zinc	5	mg/kg	30	70	32	32
Sample Properties						
% Moisture	1	%	22	3.2	17	16

Client Sample ID			HS12_ASH_230918	HS12_NW_230918	HS12_FLOOR_230918	CF_04_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044272	B23-Se0044273	B23-Se0044274	B23-Se0044275
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	55	72	71	88
Tetrachloro-m-xylene (surr.)	1	%	62	141	115	127

Client Sample ID			HS12_ASH_23_0918	HS12_NW_230_918	HS12_FLOOR_230918	CF_04_230918
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-Se0044272	B23-Se0044273	B23-Se0044274	B23-Se0044275
Date Sampled			Sep 18, 2023	Sep 18, 2023	Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	19	8.7	8.7	3.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	37	180	180	130
Copper	5	mg/kg	31	25	25	64
Lead	5	mg/kg	100	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	63	58	40
Zinc	5	mg/kg	190	38	34	26
Sample Properties						
% Moisture	1	%	7.7	17	19	3.2

Client Sample ID			CF_05_230918	CF_06_230918
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23-Se0044276	B23-Se0044277
Date Sampled			Sep 18, 2023	Sep 18, 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
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
Dibutylchloroendate (surr.)	1	%	INT	50
Tetrachloro-m-xylene (surr.)	1	%	68	70

Client Sample ID			CF_05_230918	CF_06_230918
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23-Se0044276	B23-Se0044277
Date Sampled			Sep 18, 2023	Sep 18, 2023
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	3.7	3.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5
Chromium	5	mg/kg	180	140
Copper	5	mg/kg	79	87
Lead	5	mg/kg	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	52	39
Zinc	5	mg/kg	35	25
Sample Properties				
% Moisture	1	%	3.3	4.9

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 and PCB in Soil and Water	Brisbane	Sep 26, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Sep 26, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Sep 19, 2023	14 Days
Naphthalene - Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS	Brisbane	Sep 23, 2023	14 Days
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 23, 2023	14 Days
BTEX - Method: USEPA SW846 8260	Brisbane	Sep 23, 2023	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 23, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	QC01-230918	Sep 18, 2023		Soil	B23-Se0044250				X	X	X	
2	QC03-230918	Sep 18, 2023		Water	B23-Se0044251			X		X		
3	QC04-230918	Sep 18, 2023		Water	B23-Se0044252			X		X		
4	QC05-230918	Sep 18, 2023		Trip Blank (solid)	B23-Se0044253							X
5	HS09_ASH_230918	Sep 18, 2023		Soil	B23-Se0044254	X			X	X	X	
6	HS09_NW_230918	Sep 18, 2023		Soil	B23-Se0044255	X			X	X	X	
7	HS09_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044256	X			X	X	X	
8	HS10_TS_230918	Sep 18, 2023		Soil	B23-Se0044257	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
9	HS10_ASH_2 30918	Sep 18, 2023		Soil	B23-Se0044258	X			X	X	X	
10	HS10_NW_23 0918	Sep 18, 2023		Soil	B23-Se0044259	X			X	X	X	
11	HS10_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044260	X			X	X	X	
12	HS10A_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044261	X			X	X	X	
13	HS10A_ASH_ 230918	Sep 18, 2023		Soil	B23-Se0044262	X			X	X	X	
14	HS10A_NW_2 30918	Sep 18, 2023		Soil	B23-Se0044263	X			X	X	X	
15	HS10A_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044264	X			X	X	X	
16	HS10B_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044265	X			X	X	X	

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Order No.:
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Received: Sep 19, 2023 1:10 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
17	HS10B_ASH_230918	Sep 18, 2023		Soil	B23-Se0044266	X			X	X	X	
18	HS10B_NW_230918	Sep 18, 2023		Soil	B23-Se0044267	X			X	X	X	
19	HS10B_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044268	X			X	X	X	
20	HS11_ASH_230918	Sep 18, 2023		Soil	B23-Se0044269	X			X	X	X	
21	HS11_NW_230918	Sep 18, 2023		Soil	B23-Se0044270	X			X	X	X	
22	HS11_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044271	X			X	X	X	
23	HS12_ASH_230918	Sep 18, 2023		Soil	B23-Se0044272	X			X	X	X	
24	HS12_NW_230918	Sep 18, 2023		Soil	B23-Se0044273	X			X	X	X	

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Received: Sep 19, 2023 1:10 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	HS12_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044274	X			X	X	X	
26	CF_04_230918	Sep 18, 2023		Soil	B23-Se0044275	X			X	X	X	
27	CF_05_230918	Sep 18, 2023		Soil	B23-Se0044276	X			X	X	X	
28	CF_06_230918	Sep 18, 2023		Soil	B23-Se0044277	X			X	X	X	
29	QC07-230918	Sep 18, 2023		Water	B23-Se0044579		X					
30	HS10_230918	Sep 18, 2023		Soil	B23-Se0044580		X					
Test Counts						24	2	27	27	27	25	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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	N/A	
DDT + DDE + DDD (Total)*	mg/kg	-			0.05	N/A	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/kg	< 20			20	Pass	
LCS - % Recovery							
Organochlorine Pesticides							

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total								
4.4'-DDD								
4.4'-DDE								
4.4'-DDT								
a-HCH								
Aldrin								
b-HCH								
d-HCH								
Dieldrin								
Endosulfan I								
Endosulfan II								
Endosulfan sulphate								
Endrin								
Endrin aldehyde								
Endrin ketone								
g-HCH (Lindane)								
Heptachlor								
Heptachlor epoxide								
Hexachlorobenzene								
Methoxychlor								
LCS - % Recovery								
Heavy Metals								
Arsenic								
Cadmium								
Chromium								
Copper								
Lead								
Mercury								
Nickel								
Zinc								
LCS - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions								
TRH C6-C9								
LCS - % Recovery								
BTEX								
Benzene								
Toluene								
Ethylbenzene								
m&p-Xylenes								
Xylenes - Total*								
LCS - % Recovery								
Total Recoverable Hydrocarbons								
TRH C6-C10								
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Organochlorine Pesticides								
Chlordanes - Total								
4.4'-DDD								
4.4'-DDE								
4.4'-DDT								
Aldrin								
b-HCH								
Endosulfan II								
Endosulfan sulphate								

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	B23-Se0060153	NCP	%	108			70-130	Pass	
Endrin aldehyde	B23-Se0044429	NCP	%	77			70-130	Pass	
Heptachlor epoxide	B23-Se0035496	NCP	%	79			70-130	Pass	
Hexachlorobenzene	B23-Se0044429	NCP	%	90			70-130	Pass	
Methoxychlor	B23-Au0076371	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	B23-Se0042795	NCP	%	76			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	B23-Se0042795	NCP	%	78			70-130	Pass	
Toluene	B23-Se0042795	NCP	%	82			70-130	Pass	
Ethylbenzene	B23-Se0042795	NCP	%	91			70-130	Pass	
m&p-Xylenes	B23-Se0042795	NCP	%	90			70-130	Pass	
o-Xylene	B23-Se0042795	NCP	%	90			70-130	Pass	
Xylenes - Total*	B23-Se0042795	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	B23-Se0042795	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0044254	CP	%	113			75-125	Pass	
Cadmium	B23-Se0044254	CP	%	106			75-125	Pass	
Chromium	B23-Se0044254	CP	%	89			75-125	Pass	
Copper	B23-Se0044254	CP	%	96			75-125	Pass	
Lead	B23-Se0044254	CP	%	129			75-125	Fail	Q08
Mercury	B23-Se0044254	CP	%	105			75-125	Pass	
Nickel	B23-Se0044254	CP	%	100			75-125	Pass	
Zinc	B23-Se0044254	CP	%	93			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
a-HCH	B23-Se0044269	CP	%	76			70-130	Pass	
d-HCH	B23-Se0044269	CP	%	86			70-130	Pass	
Dieldrin	B23-Se0044269	CP	%	106			70-130	Pass	
Endosulfan I	B23-Se0044269	CP	%	93			70-130	Pass	
Endrin ketone	B23-Se0044269	CP	%	84			70-130	Pass	
g-HCH (Lindane)	B23-Se0044269	CP	%	81			70-130	Pass	
Heptachlor	B23-Se0044269	CP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0044275	CP	%	104			75-125	Pass	
Cadmium	B23-Se0044275	CP	%	104			75-125	Pass	
Copper	B23-Se0044275	CP	%	106			75-125	Pass	
Lead	B23-Se0044275	CP	%	97			75-125	Pass	
Mercury	B23-Se0044275	CP	%	101			75-125	Pass	
Nickel	B23-Se0044275	CP	%	110			75-125	Pass	
Zinc	B23-Se0044275	CP	%	100			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Naphthalene	B23-Se0042789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	B23-Se0042789	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	B23-Se0042789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	B23-Se0042789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	B23-Se0042789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	B23-Se0042789	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	B23-Se0042789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	B23-Se0042789	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C10	B23-Se0042789	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0044254	CP	%	9.8	13	25	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0044258	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0044258	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0044264	CP	%	21	23	8.0	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0044268	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
g-HCH (Lindane)	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0044268	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0044273	CP	mg/kg	8.7	7.2	19	30%	Pass
Cadmium	B23-Se0044273	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0044273	CP	mg/kg	180	160	11	30%	Pass
Copper	B23-Se0044273	CP	mg/kg	25	24	4.1	30%	Pass
Lead	B23-Se0044273	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	B23-Se0044273	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0044273	CP	mg/kg	63	59	5.9	30%	Pass
Zinc	B23-Se0044273	CP	mg/kg	38	33	12	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0044275	CP	%	3.2	2.9	7.3	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
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
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:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Sarah McCallion	Senior Analyst-Organic
Sarah McCallion	Senior Analyst-Volatile
Sayed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1027451-W**
Project name **DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION**
Project ID **282781**
Received Date **Sep 19, 2023**

Client Sample ID			QC03-230918	QC04-230918
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Se0044251	B23- Se0044252
Date Sampled			Sep 18, 2023	Sep 18, 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
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
Dibutylchloredate (surr.)	1	%	67	63
Tetrachloro-m-xylene (surr.)	1	%	126	137
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
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	0.006	< 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

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

Metals M8

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

Testing Site

Melbourne

Brisbane

Extracted

Sep 21, 2023

Sep 21, 2023

Holding Time

7 Days

28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
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Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	QC01-230918	Sep 18, 2023		Soil	B23-Se0044250				X	X	X	
2	QC03-230918	Sep 18, 2023		Water	B23-Se0044251			X		X		
3	QC04-230918	Sep 18, 2023		Water	B23-Se0044252			X		X		
4	QC05-230918	Sep 18, 2023		Trip Blank (solid)	B23-Se0044253							X
5	HS09_ASH_230918	Sep 18, 2023		Soil	B23-Se0044254	X			X	X	X	
6	HS09_NW_230918	Sep 18, 2023		Soil	B23-Se0044255	X			X	X	X	
7	HS09_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044256	X			X	X	X	
8	HS10_TS_230918	Sep 18, 2023		Soil	B23-Se0044257	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
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Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
9	HS10_ASH_2 30918	Sep 18, 2023		Soil	B23-Se0044258	X			X	X	X	
10	HS10_NW_23 0918	Sep 18, 2023		Soil	B23-Se0044259	X			X	X	X	
11	HS10_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044260	X			X	X	X	
12	HS10A_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044261	X			X	X	X	
13	HS10A_ASH_ 230918	Sep 18, 2023		Soil	B23-Se0044262	X			X	X	X	
14	HS10A_NW_2 30918	Sep 18, 2023		Soil	B23-Se0044263	X			X	X	X	
15	HS10A_FLOOR _230918	Sep 18, 2023		Soil	B23-Se0044264	X			X	X	X	
16	HS10B_TS_23 0918	Sep 18, 2023		Soil	B23-Se0044265	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Order No.:
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Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
17	HS10B_ASH_230918	Sep 18, 2023		Soil	B23-Se0044266	X			X	X	X	
18	HS10B_NW_230918	Sep 18, 2023		Soil	B23-Se0044267	X			X	X	X	
19	HS10B_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044268	X			X	X	X	
20	HS11_ASH_230918	Sep 18, 2023		Soil	B23-Se0044269	X			X	X	X	
21	HS11_NW_230918	Sep 18, 2023		Soil	B23-Se0044270	X			X	X	X	
22	HS11_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044271	X			X	X	X	
23	HS12_ASH_230918	Sep 18, 2023		Soil	B23-Se0044272	X			X	X	X	
24	HS12_NW_230918	Sep 18, 2023		Soil	B23-Se0044273	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Order No.:
Report #: 1027451
Phone: +61 2 9406 1000
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Received: Sep 19, 2023 1:10 PM
Due: Sep 26, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS-GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	HS12_FLOOR_230918	Sep 18, 2023		Soil	B23-Se0044274	X			X	X	X	
26	CF_04_230918	Sep 18, 2023		Soil	B23-Se0044275	X			X	X	X	
27	CF_05_230918	Sep 18, 2023		Soil	B23-Se0044276	X			X	X	X	
28	CF_06_230918	Sep 18, 2023		Soil	B23-Se0044277	X			X	X	X	
29	QC07-230918	Sep 18, 2023		Water	B23-Se0044579		X					
30	HS10_230918	Sep 18, 2023		Soil	B23-Se0044580		X					
Test Counts						24	2	27	27	27	25	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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

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

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Se0060379	NCP	%	94			70-130	Pass	
4,4'-DDD	M23-Se0060379	NCP	%	87			70-130	Pass	
4,4'-DDE	M23-Se0060379	NCP	%	75			70-130	Pass	
4,4'-DDT	M23-Se0060379	NCP	%	110			70-130	Pass	
a-HCH	M23-Se0060379	NCP	%	76			70-130	Pass	
Aldrin	M23-Se0060379	NCP	%	70			70-130	Pass	
b-HCH	M23-Se0060379	NCP	%	71			70-130	Pass	
d-HCH	M23-Se0060379	NCP	%	77			70-130	Pass	
Dieldrin	M23-Se0060379	NCP	%	86			70-130	Pass	
Endosulfan I	M23-Se0060379	NCP	%	79			70-130	Pass	
Endosulfan II	M23-Se0060379	NCP	%	91			70-130	Pass	
Endosulfan sulphate	M23-Se0060379	NCP	%	77			70-130	Pass	
Endrin	M23-Se0060379	NCP	%	82			70-130	Pass	
Endrin aldehyde	M23-Se0060379	NCP	%	92			70-130	Pass	
Endrin ketone	M23-Se0060379	NCP	%	83			70-130	Pass	
g-HCH (Lindane)	M23-Se0060379	NCP	%	74			70-130	Pass	
Heptachlor	M23-Se0060379	NCP	%	76			70-130	Pass	
Heptachlor epoxide	M23-Se0060379	NCP	%	87			70-130	Pass	
Hexachlorobenzene	M23-Se0060379	NCP	%	74			70-130	Pass	
Methoxychlor	M23-Se0060379	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0044251	CP	%	104			75-125	Pass	
Cadmium	B23-Se0044251	CP	%	105			75-125	Pass	
Chromium	B23-Se0044251	CP	%	114			75-125	Pass	
Copper	B23-Se0044251	CP	%	111			75-125	Pass	
Lead	B23-Se0044251	CP	%	117			75-125	Pass	
Mercury	B23-Se0035505	NCP	%	98			75-125	Pass	
Nickel	B23-Se0044251	CP	%	110			75-125	Pass	
Zinc	B23-Se0044251	CP	%	107			75-125	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	M23-Se0060378	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4,4'-DDD	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDE	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDT	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	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			
Heptachlor	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-Se0060378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-Se0060378	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Se0035504	NCP	mg/L	0.020	0.016	22	30%	Pass	
Chromium	B23-Se0035504	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	B23-Se0035504	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	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

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Metal



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

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Company		TERRA TECH COFFEY				Project No		282781		Project Manager		JEREMY.WICKS@TETRA TECH.COM		Sampler(s)		AM			
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000				Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation				EDD Format ES&I, EOUIS etc		Handled over by		AM			
Contact Name		alistair mcley				Analyses		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.				Email for Invoice		JEREMY.WICKS@TETRA TECH.COM		Email for Results		JEREMY.WICKS@TETRA TECH.COM	
Phone No		_04109996070				Special Directions						Required Turnaround Time (TAT) Default will be 5 days if not ticked.		Overnight (reporting by 9am) ♦ Same day ♦ 2 days ♦ 5 days (Standard) Other		Surcharge will apply			
Purchase Order						Quote ID No						Containers Change container type & size if necessary.		500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4964, WA Guidelines)		Sample Comments / Dangerous Goods Hazard Warning			
Ne		Client Sample ID		Sampled Date/Time <small>(determine by phnum)</small>		Matrix Solid (S) Water (W)													
1		HSA01_TS_230920		20/09/23		S		X		X		X		X		1		1	
2		HSA01_FILL_230920		20/09/23		S		X		X		X		X		1		1	
3		HSA01_NW_230920		20/09/23		S		X		X		X		X		1		1	
4		HSA02_TS_230920		20/09/23		S		X		X		X		X		1		1	
5		HSA02_FILL_230920		20/09/23		S		X		X		X		X		1		1	
6		HSA02_NW_230920		20/09/23		S		X		X		X		X		1		1	
7		HSA03_TS_230920		20/09/23		S		X		X		X		X		1		1	
8		HSA03_FILL_230920		20/09/23		S		X		X		X		X		1		1	
9		HSA03_NW_230920		20/09/23		S		X		X		X		X		1		1	
10		HSA04_TS_230920		20/09/23		S		X		X		X		X		1		1	
		Total Counts						10		10		10		10					
Method of Shipment		<input type="checkbox"/> Courier (#)		<input checked="" type="checkbox"/> Hand Delivered															
Laboratory Use Only		Received By		Received By		SVL BNE MEL PER ADL NTL DRW		Signature		Signature		AM		Date		20th sept		Time	
		Received By		Received By		SVL BNE MEL PER ADL NTL DRW		Signature		Signature		AM		Date		Time		Report No	



CHAIN OF CUSTODY RECORD

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Company		TERRA TECH COFFEY			Project No		282781		Project Manager		JEREMY.WICKS@TETRA TECH.COM		Sampler(s)		AM		
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000			Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ESDAT, EODIS etc		ESDAT + EXCEL		Handed over by		AM		
Contact Name		alistair mcley			Analyses		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.						Email for Invoice		JEREMY.WICKS@TETRA TECH.COM		
Phone No		_0410996070											Email for Results		JEREMY.WICKS@TETRA TECH.COM		
Special Directions																	
Purchase Order																	
Quote ID No																	
Client Sample ID		Sampled Date/Time <small>(dd/mm/yyyy hh:mm)</small>		Matrix <small>(Solid (S) dd/mm/yyyy hh:mm)</small>		8METALS		OCP		ACM NEPM		HOLD		500mL Plastic		Required Turnaround Time (TAT) <small>(Default will be 5 days if not ticked)</small>	
1		HSA04_FILL_230920		20/09/23		S		X		X		X				Overnight (reporting by 9am) ♦ Same day ♦ 1 day ♦ 2 days ♦ 3 days ♦ 5 days (Standard) Other ()	
2		HSA04_NW_230920		20/09/23		S		X		X		X				♦ Surcharge will apply	
3		HSB01_TS_230920		20/09/23		S		X		X		X					
4		HSB01_ASH_230920		20/09/23		S		X		X		X					
5		HSB01_NW_230920		20/09/23		S		X		X		X					
6		HSB02_TS_230920		20/09/23		S		X		X		X					
7		HSB02_ASH_230920		20/09/23		S		X		X		X					
8		HSB02_NW_230920		20/09/23		S		X		X		X					
9		HSB03_TS_230920		20/09/23		S		X		X		X					
10		HSB03_ASH_230920		20/09/23		S		X		X		X					
		Total Counts				10		10		10							
Method of Shipment		<input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered															
Laboratory Use Only		Received By Received By				SYD BNE MEL PER ADL NTL DRW		Signature		AM		Signature		AM		Date	
						SYD BNE MEL PER ADL NTL DRW		Signature								Time	



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melbourne Laboratory
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[illegible]



CHAIN OF CUSTODY RECORD

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Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sampler(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format		ESDAT + EXCEL		Handed over by		AM	
Contact Name		alistair mcley		Analyses		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		ESDAT		ESDAT + EXCEL		Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		_0410996070		Special Directions		* QC07 TRIPPLICATE SAMPLE PLEASE SEND TO ALS STAFFORD QC 10 PLEASE		* UNLABELLED (TB) IS		JEREMY.WICKS@TETRATECH.COM		Email for Results		JEREMY.WICKS@TETRATECH.COM	
Purchase Order				Quote ID No				Containers		Required Turnaround Time (TAT)		Default will be 5 days if not ticked.		Default will be 5 days if not ticked.	
No		Client Sample ID		Sampled Date/Time (dd/mm/yyyy hh:mm)		Matrix Solid (S) Water (W)		8METALS		OCP		ACM NEPM		HOLD	
1		QC 06_230920 (DUP)		20/09/23		S		X		X					
2		QC 07_230920 (TRIP)		20/09/23		S		X		X					
3		QC 08_230921 (RB)		20/09/23		W		X		X					
4		QC 09_230921 (FB)		20/09/23		W		X		X					
5		QC10 (TB)		19/09/23		S		X		X					
6		-		-		-									
7		-		-		-									
8		-		-		-									
9		-		-		-									
10		-		-		-									
Total Counts								5		5					
Method of Shipment		<input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal		Name		Signature		AM		Signature		AM	
Laboratory Use Only		Received By		Received By		SYD BNE MEL PER ADL NTL DRW		Signature		Date		Time		Temperature	
Eurofins Environment Testing Australia Pty Ltd		EnviroSales@eurofins.com		Submission of samples to the laboratory will be deemed as acceptance of Eurofins Environment Testing Standard Terms and Conditions unless agreed otherwise. A copy is available on request.		SYD BNE MEL PER ADL NTL DRW		Signature		Date		Time		Report No	

Wicks,



Jeremy <jeremy.wicks@tetrattech.com>

To: Zoe Flynn

Fri 22/09/23 2:13 PM

Cc: #AU03_EnviroSampleBri

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Hi Zoe

In this batch of samples can you please also schedule the following samples for PAH-16.

HSA01_FILL_230920
HSA02_FILL_230920
HSA03_FILL_230920
HSA04_FILL_230920
HSB01_ASH_230920
HSB02_ASH_230920
HSB03_ASH_230920

Best regards

Jeremy Wicks | Queensland Practice Leader Site Assessment and Remediation

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID:	282871
Turnaround time:	5 Day
Date/Time received	Sep 22, 2023 10:00 AM
Eurofins reference	1028239

Sample Information

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

Notes

Please note, sample has been forwarded to ALS as requested. Trip Blank was not received by laboratory, testing has been cancelled.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



Eurofins Environment Testing Australia Pty Ltd

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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	HSA01_TS_23 0920	Sep 20, 2023		Soil	B23-Se0050224	X				X	X	X
2	HSA01_FILL_ 230920	Sep 20, 2023		Soil	B23-Se0050225	X		X		X	X	X
3	HSA01_NW_2 30920	Sep 20, 2023		Soil	B23-Se0050226	X				X	X	X
4	HSA02_TS_23 0920	Sep 20, 2023		Soil	B23-Se0050227	X				X	X	X
5	HSA02_FILL_ 230920	Sep 20, 2023		Soil	B23-Se0050228	X		X		X	X	X
6	HSA02_NW_2 30920	Sep 20, 2023		Soil	B23-Se0050229	X				X	X	X
7	HSA03_TS_23	Sep 20, 2023		Soil	B23-Se0050230	X				X	X	X



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Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
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Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

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Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	0920											
8	HSA03_FILL_230920	Sep 20, 2023		Soil	B23-Se0050231	X		X		X	X	X
9	HAS03_NW_230920	Sep 20, 2023		Soil	B23-Se0050232	X				X	X	X
10	HSA04_TS_230920	Sep 20, 2023		Soil	B23-Se0050233	X				X	X	X
11	HSA04_FILL_230920	Sep 20, 2023		Soil	B23-Se0050234	X		X		X	X	X
12	HAS04_NW_230920	Sep 20, 2023		Soil	B23-Se0050235	X				X	X	X
13	HSB01_TS_230920	Sep 20, 2023		Soil	B23-Se0050236	X				X	X	X
14	HSB01_ASH_230920	Sep 20, 2023		Soil	B23-Se0050237	X		X		X	X	X
15	HSB01_NW_2	Sep 20, 2023		Soil	B23-Se0050238	X				X	X	X



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Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	30920											
16	HSB02_TS_230920	Sep 20, 2023		Soil	B23-Se0050239	X				X	X	X
17	HSB02_ASH_230920	Sep 20, 2023		Soil	B23-Se0050240	X		X		X	X	X
18	HSB02_NW_230920	Sep 20, 2023		Soil	B23-Se0050241	X				X	X	X
19	HSB03_TS_230920	Sep 20, 2023		Soil	B23-Se0050242	X				X	X	X
20	HSB03_ASH_230920	Sep 20, 2023		Soil	B23-Se0050243	X		X		X	X	X
21	HSB03_NW_230920	Sep 20, 2023		Soil	B23-Se0050244	X				X	X	X
22	QC06_230920	Sep 20, 2023		Soil	B23-Se0050245	X				X	X	X
23	QC08_230921	Sep 20, 2023		Water	B23-Se0050246				X		X	
24	QC09_230921	Sep 20, 2023		Water	B23-Se0050247				X		X	



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Chatswood
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Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	QC10	Sep 20, 2023		Trip Blank (solid)	B23-Se0050248		X					
Test Counts						22	1	7	24	24	24	22

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Jeremy Wicks
Report 1028239-AID
Project Name DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID 282871
Received Date Sep 21, 2023
Date Reported Oct 03, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID 282871
Date Sampled Sep 20, 2023
Report 1028239-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSA01_TS_230920	23-Se0050224	Sep 20, 2023	Approximate Sample 575g Sample consisted of: Brown coarse grained sandy clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA01_FILL_230920	23-Se0050225	Sep 20, 2023	Approximate Sample 557g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA01_NW_230920	23-Se0050226	Sep 20, 2023	Approximate Sample 452g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA02_TS_230920	23-Se0050227	Sep 20, 2023	Approximate Sample 701g Sample consisted of: Brown coarse grained sandy clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA02_FILL_230920	23-Se0050228	Sep 20, 2023	Approximate Sample 830g Sample consisted of: Brown coarse grained sandy clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA02_NW_230920	23-Se0050229	Sep 20, 2023	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA03_TS_230920	23-Se0050230	Sep 20, 2023	Approximate Sample 685g Sample consisted of: Brown coarse grained sandy clayey soil, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA03_FILL_230920	23-Se0050231	Sep 20, 2023	Approximate Sample 610g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HAS03_NW_230920	23-Se0050232	Sep 20, 2023	Approximate Sample 545g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA04_TS_230920	23-Se0050233	Sep 20, 2023	Approximate Sample 783g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSA04_FILL_230920	23-Se0050234	Sep 20, 2023	Approximate Sample 885g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HAS04_NW_230920	23-Se0050235	Sep 20, 2023	Approximate Sample 719g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_TS_230920	23-Se0050236	Sep 20, 2023	Approximate Sample 638g Sample consisted of: Brown coarse grained sandy clayey soil, rocks and debris	ACM: Chrysotile asbestos detected in fibre cement material. Approximate raw weight of ACM = 0.17g Total estimated asbestos content in ACM = 0.017g* Total estimated asbestos concentration in ACM = 0.0027% w/w* No asbestos detected at the reporting limit of 0.01% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_ASH_230920	23-Se0050237	Sep 20, 2023	Approximate Sample 534g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_NW_230920	23-Se0050238	Sep 20, 2023	Approximate Sample 689g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_TS_230920	23-Se0050239	Sep 20, 2023	Approximate Sample 575g Sample consisted of: Brown coarse grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_ASH_230920	23-Se0050240	Sep 20, 2023	Approximate Sample 526g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_NW_230920	23-Se0050241	Sep 20, 2023	Approximate Sample 639g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_TS_230920	23-Se0050242	Sep 20, 2023	Approximate Sample 550g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSB03_ASH_230920	23-Se0050243	Sep 20, 2023	Approximate Sample 547g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_NW_230920	23-Se0050244	Sep 20, 2023	Approximate Sample 563g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC06_230920	23-Se0050245	Sep 20, 2023	Approximate Sample 47g Sample consisted of: Brown coarse-grained soil, coal and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 29, 2023	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 29, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Received: Sep 22, 2023 10:00 AM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	HSA01_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050224		X				X	X	X
2	HSA01_FILL_230920	Sep 20, 2023		Soil	B23-Se0050225		X		X		X	X	X
3	HSA01_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050226		X				X	X	X
4	HSA02_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050227		X				X	X	X
5	HSA02_FILL_230920	Sep 20, 2023		Soil	B23-Se0050228		X		X		X	X	X
6	HSA02_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050229		X				X	X	X
7	HSA03_TS_23	Sep 20, 2023		Soil	B23-Se0050230		X				X	X	X

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name:	Tetra Tech Coffey Environment Pty Ltd QLD	Order No.:		Received:	Sep 22, 2023 10:00 AM
Address:	Level 20, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	Report #:	1028239	Due:	Sep 29, 2023
		Phone:	+61 2 9406 1000	Priority:	5 Day
		Fax:	+61 2 9406 1004	Contact Name:	Jeremy Wicks
Project Name:	DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION				
Project ID:	282871				
Eurofins Analytical Services Manager : Zoe Flynn					

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X
	0920												
8	HSA03_FILL_230920	Sep 20, 2023		Soil	B23-Se0050231		X		X		X	X	X
9	HAS03_NW_230920	Sep 20, 2023		Soil	B23-Se0050232		X				X	X	X
10	HSA04_TS_230920	Sep 20, 2023		Soil	B23-Se0050233		X				X	X	X
11	HSA04_FILL_230920	Sep 20, 2023		Soil	B23-Se0050234		X		X		X	X	X
12	HAS04_NW_230920	Sep 20, 2023		Soil	B23-Se0050235		X				X	X	X
13	HSB01_TS_230920	Sep 20, 2023		Soil	B23-Se0050236		X				X	X	X
14	HSB01_ASH_230920	Sep 20, 2023		Soil	B23-Se0050237		X		X		X	X	X
15	HSB01_NW_2	Sep 20, 2023		Soil	B23-Se0050238		X				X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X
	30920												
16	HSB02_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050239		X				X	X	X
17	HSB02_ASH_230920	Sep 20, 2023		Soil	B23-Se0050240		X		X		X	X	X
18	HSB02_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050241		X				X	X	X
19	HSB03_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050242		X				X	X	X
20	HSB03_ASH_230920	Sep 20, 2023		Soil	B23-Se0050243		X		X		X	X	X
21	HSB03_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050244		X				X	X	X
22	QC06_230920	Sep 20, 2023		Soil	B23-Se0050245	X					X	X	X
23	QC08_230921	Sep 20, 2023		Water	B23-Se0050246					X		X	
24	QC09_230921	Sep 20, 2023		Water	B23-Se0050247					X		X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth	Auckland	Christchurch	Tauranga
46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	Polyyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X	X
25	QC10	Sep 20, 2023		Trip Blank (solid)	B23-Se0050248			X					
Test Counts						1	21	1	7	24	24	24	22

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Se0050226: Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos

Authorised by:

Sayeed Abu Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1028239-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282871**
Received Date **Sep 21, 2023**

Client Sample ID			HSA01_TS_23 0920	HSA01_FILL_2 30920	HSA01_NW_23 0920	HSA02_TS_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050224	B23- Se0050225	B23- Se0050226	B23- Se0050227
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloride (surr.)	1	%	100	90	135	89
Tetrachloro-m-xylene (surr.)	1	%	135	120	147	130
Heavy Metals						
Arsenic	2	mg/kg	74	10	13	350
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	42	210	37	140
Copper	5	mg/kg	38	25	24	180
Lead	5	mg/kg	40	< 5	80	48
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	70	15	12
Zinc	5	mg/kg	73	38	250	130

Client Sample ID			HSA01_TS_23 0920	HSA01_FILL_2 30920	HSA01_NW_23 0920	HSA02_TS_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050224	B23- Se0050225	B23- Se0050226	B23- Se0050227
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	2.6	21	4.9	1.8
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	129	-	-
p-Terphenyl-d14 (surr.)	1	%	-	101	-	-

Client Sample ID			HSA02_FILL_2 30920	HSA02_NW_23 0920	HSA03_TS_23 0920	HSA03_FILL_2 30920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050228	B23- Se0050229	B23- Se0050230	B23- Se0050231
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			HSA02_FILL_2 30920	HAS02_NW_23 0920	HSA03_TS_23 0920	HSA03_FILL_2 30920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050228	B23- Se0050229	B23- Se0050230	B23- Se0050231
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorobenzene (surr.)	1	%	95	90	110	106
Tetrachloro-m-xylene (surr.)	1	%	122	127	136	128
Heavy Metals						
Arsenic	2	mg/kg	18	14	150	43
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	71	230	55	82
Copper	5	mg/kg	21	24	65	35
Lead	5	mg/kg	40	< 5	42	47
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	23	61	11	23
Zinc	5	mg/kg	110	44	97	280
Sample Properties						
% Moisture	1	%	12	19	1.9	12
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	121	-	-	125
p-Terphenyl-d14 (surr.)	1	%	95	-	-	102

Client Sample ID			HAS03_NW_23 0920	HSA04_TS_23 0920	HSA04_FILL_2 30920	HAS04_NW_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050232	B23- Se0050233	B23- Se0050234	B23- Se0050235
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	0.08	0.10	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.08	0.1	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	88	97	76
Tetrachloro-m-xylene (surr.)	1	%	137	124	135	117
Heavy Metals						
Arsenic	2	mg/kg	9.3	78	31	5.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	170	65	43	86
Copper	5	mg/kg	14	46	19	9.6
Lead	5	mg/kg	5.3	13	8.6	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	43	13	14	20
Zinc	5	mg/kg	27	52	49	35
Sample Properties						
% Moisture	1	%	20	3.5	3.9	6.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			HAS03_NW_23 0920	HSA04_TS_23 0920	HSA04_FILL_2 30920	HAS04_NW_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050232	B23- Se0050233	B23- Se0050234	B23- Se0050235
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	128	-
p-Terphenyl-d14 (surr.)	1	%	-	-	96	-

Client Sample ID			HSB01_TS_23 0920	HSB01_ASH_2 30920	HSB01_NW_23 0920	HSB02_TS_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050236	B23- Se0050237	B23- Se0050238	B23- Se0050239
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	129	124	77	79
Tetrachloro-m-xylene (surr.)	1	%	INT	133	134	118

Client Sample ID			HSB01_TS_23 0920	HSB01_ASH_2 30920	HSB01_NW_23 0920	HSB02_TS_23 0920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050236	B23- Se0050237	B23- Se0050238	B23- Se0050239
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	23	20	12	35
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	41	22	50	28
Copper	5	mg/kg	27	33	9.1	68
Lead	5	mg/kg	280	39	5.2	210
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	14	22	40
Zinc	5	mg/kg	440	110	19	290
Sample Properties						
% Moisture	1	%	12	5.3	12	6.0
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	0.6	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	0.6	-	-
2-Fluorobiphenyl (surr.)	1	%	-	117	-	-
p-Terphenyl-d14 (surr.)	1	%	-	117	-	-

Client Sample ID			HSB02_ASH_2 30920	HSB02_NW_23 0920	HSB03_TS_23 0920	HSB03_ASH_2 30920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050240	B23- Se0050241	B23- Se0050242	B23- Se0050243
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			HSB02_ASH_2 30920	HSB02_NW_23 0920	HSB03_TS_23 0920	HSB03_ASH_2 30920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050240	B23- Se0050241	B23- Se0050242	B23- Se0050243
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	INT	77	94	92
Tetrachloro-m-xylene (surr.)	1	%	135	125	129	138
Heavy Metals						
Arsenic	2	mg/kg	12	8.2	13	21
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	8.1	54	42	11
Copper	5	mg/kg	23	8.4	26	37
Lead	5	mg/kg	40	11	200	48
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.0	24	26	11
Zinc	5	mg/kg	80	26	400	72
Sample Properties						
% Moisture	1	%	5.3	12	16	8.6
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5

Client Sample ID			HSB02_ASH_2 30920	HSB02_NW_23 0920	HSB03_TS_23 0920	HSB03_ASH_2 30920
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0050240	B23- Se0050241	B23- Se0050242	B23- Se0050243
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	128	-	-	131
p-Terphenyl-d14 (surr.)	1	%	116	-	-	103

Client Sample ID			HSB03_NW_23 0920	QC06_230920
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23- Se0050244	B23- Se0050245
Date Sampled			Sep 20, 2023	Sep 20, 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
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
Dibutylchloroendate (surr.)	1	%	68	57
Tetrachloro-m-xylene (surr.)	1	%	109	86
Heavy Metals				
Arsenic	2	mg/kg	3.5	18
Cadmium	0.5	mg/kg	< 0.5	< 0.5
Chromium	5	mg/kg	53	8.3
Copper	5	mg/kg	5.9	40
Lead	5	mg/kg	< 5	62
Mercury	0.1	mg/kg	< 0.1	< 0.1

Client Sample ID			HSB03_NW_23 0920	QC06_230920
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23- Se0050244	B23- Se0050245
Date Sampled			Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit		
Heavy Metals				
Nickel	5	mg/kg	18	11
Zinc	5	mg/kg	14	79
Sample Properties				
% Moisture	1	%	14	9.6

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP and PCB in Soil and Water	Brisbane	Sep 27, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Sep 27, 2023	28 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Brisbane	Sep 27, 2023	14 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Sep 21, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

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Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	HSA01_TS_23 0920	Sep 20, 2023		Soil	B23-Se0050224	X				X	X	X
2	HSA01_FILL_ 230920	Sep 20, 2023		Soil	B23-Se0050225	X		X		X	X	X
3	HSA01_NW_2 30920	Sep 20, 2023		Soil	B23-Se0050226	X				X	X	X
4	HSA02_TS_23 0920	Sep 20, 2023		Soil	B23-Se0050227	X				X	X	X
5	HSA02_FILL_ 230920	Sep 20, 2023		Soil	B23-Se0050228	X		X		X	X	X
6	HSA02_NW_2 30920	Sep 20, 2023		Soil	B23-Se0050229	X				X	X	X
7	HSA03_TS_23	Sep 20, 2023		Soil	B23-Se0050230	X				X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	0920											
8	HSA03_FILL_230920	Sep 20, 2023		Soil	B23-Se0050231	X		X		X	X	X
9	HAS03_NW_230920	Sep 20, 2023		Soil	B23-Se0050232	X				X	X	X
10	HSA04_TS_230920	Sep 20, 2023		Soil	B23-Se0050233	X				X	X	X
11	HSA04_FILL_230920	Sep 20, 2023		Soil	B23-Se0050234	X		X		X	X	X
12	HAS04_NW_230920	Sep 20, 2023		Soil	B23-Se0050235	X				X	X	X
13	HSB01_TS_230920	Sep 20, 2023		Soil	B23-Se0050236	X				X	X	X
14	HSB01_ASH_230920	Sep 20, 2023		Soil	B23-Se0050237	X		X		X	X	X
15	HSB01_NW_230920	Sep 20, 2023		Soil	B23-Se0050238	X				X	X	X

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Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	30920											
16	HSB02_TS_230920	Sep 20, 2023		Soil	B23-Se0050239	X				X	X	X
17	HSB02_ASH_230920	Sep 20, 2023		Soil	B23-Se0050240	X		X		X	X	X
18	HSB02_NW_230920	Sep 20, 2023		Soil	B23-Se0050241	X				X	X	X
19	HSB03_TS_230920	Sep 20, 2023		Soil	B23-Se0050242	X				X	X	X
20	HSB03_ASH_230920	Sep 20, 2023		Soil	B23-Se0050243	X		X		X	X	X
21	HSB03_NW_230920	Sep 20, 2023		Soil	B23-Se0050244	X				X	X	X
22	QC06_230920	Sep 20, 2023		Soil	B23-Se0050245	X				X	X	X
23	QC08_230921	Sep 20, 2023		Water	B23-Se0050246				X		X	
24	QC09_230921	Sep 20, 2023		Water	B23-Se0050247				X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	QC10	Sep 20, 2023		Trip Blank (solid)	B23-Se0050248		X					
Test Counts						22	1	7	24	24	24	22

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and 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 basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. 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 are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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 a 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 is 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	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Organochlorine Pesticides							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total			%	95			70-130	Pass	
4.4'-DDD			%	71			70-130	Pass	
4.4'-DDE			%	101			70-130	Pass	
4.4'-DDT			%	98			70-130	Pass	
a-HCH			%	76			70-130	Pass	
Aldrin			%	109			70-130	Pass	
b-HCH			%	76			70-130	Pass	
d-HCH			%	95			70-130	Pass	
Dieldrin			%	77			70-130	Pass	
Endosulfan I			%	88			70-130	Pass	
Endosulfan II			%	78			70-130	Pass	
Endosulfan sulphate			%	94			70-130	Pass	
Endrin aldehyde			%	116			70-130	Pass	
Endrin ketone			%	105			70-130	Pass	
g-HCH (Lindane)			%	85			70-130	Pass	
Heptachlor			%	119			70-130	Pass	
Heptachlor epoxide			%	104			70-130	Pass	
Hexachlorobenzene			%	112			70-130	Pass	
Methoxychlor			%	109			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	102			80-120	Pass	
Cadmium			%	98			80-120	Pass	
Chromium			%	102			80-120	Pass	
Copper			%	103			80-120	Pass	
Lead			%	103			80-120	Pass	
Mercury			%	103			80-120	Pass	
Nickel			%	102			80-120	Pass	
Zinc			%	95			80-120	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons									
Acenaphthylene			%	84			70-130	Pass	
Anthracene			%	101			70-130	Pass	
Benz(a)anthracene			%	120			70-130	Pass	
Benzo(a)pyrene			%	95			70-130	Pass	
Benzo(g,h,i)perylene			%	84			70-130	Pass	
Benzo(k)fluoranthene			%	110			70-130	Pass	
Chrysene			%	103			70-130	Pass	
Dibenz(a,h)anthracene			%	88			70-130	Pass	
Fluoranthene			%	126			70-130	Pass	
Fluorene			%	74			70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	124			70-130	Pass	
Naphthalene			%	78			70-130	Pass	
Phenanthrene			%	126			70-130	Pass	
Pyrene			%	124			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Se0037747	NCP	%	112			70-130	Pass	
4.4'-DDD	B23-Se0040969	NCP	%	72			70-130	Pass	
4.4'-DDE	B23-Se0037747	NCP	%	108			70-130	Pass	
4.4'-DDT	B23-Se0042790	NCP	%	85			70-130	Pass	
Aldrin	B23-Se0037747	NCP	%	111			70-130	Pass	
Endrin	B23-Se0040969	NCP	%	72			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	B23-Se0037747	NCP	%	98		70-130	Pass	
Hexachlorobenzene	B23-Se0037747	NCP	%	119		70-130	Pass	
Methoxychlor	B23-Se0040969	NCP	%	107		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	B23-Se0037755	NCP	%	82		70-130	Pass	
Acenaphthylene	B23-Se0040969	NCP	%	72		70-130	Pass	
Indeno(1.2.3-cd)pyrene	B23-Se0044269	NCP	%	74		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Se0050231	CP	%	75		75-125	Pass	
Cadmium	B23-Se0050231	CP	%	91		75-125	Pass	
Chromium	B23-Se0050231	CP	%	81		75-125	Pass	
Copper	B23-Se0050231	CP	%	85		75-125	Pass	
Lead	B23-Se0050231	CP	%	109		75-125	Pass	
Mercury	B23-Se0050231	CP	%	92		75-125	Pass	
Nickel	B23-Se0050231	CP	%	82		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
a-HCH	B23-Se0050233	CP	%	97		70-130	Pass	
b-HCH	B23-Se0050233	CP	%	91		70-130	Pass	
d-HCH	B23-Se0050233	CP	%	88		70-130	Pass	
Dieldrin	B23-Se0050233	CP	%	90		70-130	Pass	
Endosulfan I	B23-Se0050233	CP	%	99		70-130	Pass	
Endosulfan II	B23-Se0050233	CP	%	88		70-130	Pass	
Endosulfan sulphate	B23-Se0050233	CP	%	72		70-130	Pass	
Endrin ketone	B23-Se0050233	CP	%	83		70-130	Pass	
g-HCH (Lindane)	B23-Se0050233	CP	%	113		70-130	Pass	
Heptachlor	B23-Se0050233	CP	%	78		70-130	Pass	
Heptachlor epoxide	B23-Se0050233	CP	%	73		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Anthracene	B23-Se0050233	CP	%	78		70-130	Pass	
Benz(a)anthracene	B23-Se0050233	CP	%	122		70-130	Pass	
Benzo(a)pyrene	B23-Se0050233	CP	%	99		70-130	Pass	
Benzo(b&j)fluoranthene	B23-Se0050233	CP	%	122		70-130	Pass	
Benzo(g,h,i)perylene	B23-Se0050233	CP	%	92		70-130	Pass	
Benzo(k)fluoranthene	B23-Se0050233	CP	%	106		70-130	Pass	
Chrysene	B23-Se0050233	CP	%	102		70-130	Pass	
Dibenz(a,h)anthracene	B23-Se0050233	CP	%	117		70-130	Pass	
Fluoranthene	B23-Se0050233	CP	%	128		70-130	Pass	
Naphthalene	B23-Se0050233	CP	%	86		70-130	Pass	
Phenanthrene	B23-Se0050233	CP	%	98		70-130	Pass	
Pyrene	B23-Se0050233	CP	%	116		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Se0050235	CP	%	91		75-125	Pass	
Cadmium	B23-Se0050235	CP	%	86		75-125	Pass	
Chromium	B23-Se0050235	CP	%	81		75-125	Pass	
Copper	B23-Se0050235	CP	%	89		75-125	Pass	
Lead	B23-Se0050235	CP	%	85		75-125	Pass	
Mercury	B23-Se0050235	CP	%	95		75-125	Pass	
Nickel	B23-Se0050235	CP	%	93		75-125	Pass	
Zinc	B23-Se0050235	CP	%	89		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
a-HCH	B23-Se0050243	CP	%	88			70-130	Pass	
b-HCH	B23-Se0050243	CP	%	87			70-130	Pass	
d-HCH	B23-Se0050243	CP	%	79			70-130	Pass	
Dieldrin	B23-Se0050243	CP	%	86			70-130	Pass	
Endosulfan I	B23-Se0050243	CP	%	95			70-130	Pass	
Endosulfan II	B23-Se0050243	CP	%	89			70-130	Pass	
Endrin ketone	B23-Se0050243	CP	%	74			70-130	Pass	
g-HCH (Lindane)	B23-Se0050243	CP	%	106			70-130	Pass	
Heptachlor epoxide	B23-Se0050243	CP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Anthracene	B23-Se0050243	CP	%	112			70-130	Pass	
Benz(a)anthracene	B23-Se0050243	CP	%	124			70-130	Pass	
Benzo(a)pyrene	B23-Se0050243	CP	%	83			70-130	Pass	
Benzo(g,h,i)perylene	B23-Se0050243	CP	%	83			70-130	Pass	
Benzo(k)fluoranthene	B23-Se0050243	CP	%	95			70-130	Pass	
Chrysene	B23-Se0050243	CP	%	98			70-130	Pass	
Dibenz(a,h)anthracene	B23-Se0050243	CP	%	93			70-130	Pass	
Fluorene	B23-Se0050243	CP	%	77			70-130	Pass	
Naphthalene	B23-Se0050243	CP	%	85			70-130	Pass	
Phenanthrene	B23-Se0050243	CP	%	121			70-130	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	B23-Se0050231	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-Se0050231	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(g,h,i)perylene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-Se0050231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Se0050238	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Se0050238	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0050238	CP	%	12	13	4.2	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-Se0050238	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0050240	CP	mg/kg	12	14	11	30%	Pass
Cadmium	B23-Se0050240	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0050240	CP	mg/kg	8.1	8.5	4.6	30%	Pass
Copper	B23-Se0050240	CP	mg/kg	23	31	31	30%	Fail
Lead	B23-Se0050240	CP	mg/kg	40	45	11	30%	Pass
Mercury	B23-Se0050240	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0050240	CP	mg/kg	6.0	9.3	43	30%	Fail
Zinc	B23-Se0050240	CP	mg/kg	80	95	17	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Se0050243	CP	mg/kg	21	26	23	30%	Pass
Cadmium	B23-Se0050243	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Se0050243	CP	mg/kg	11	13	12	30%	Pass
Copper	B23-Se0050243	CP	mg/kg	37	31	17	30%	Pass
Lead	B23-Se0050243	CP	mg/kg	48	36	29	30%	Pass
Mercury	B23-Se0050243	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Se0050243	CP	mg/kg	11	11	<1	30%	Pass
Zinc	B23-Se0050243	CP	mg/kg	72	66	9.7	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
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Sarah McCallion	Senior Analyst-Organic
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1028239-W**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282871**
Received Date **Sep 21, 2023**

Client Sample ID			QC08_230921	QC09_230921
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Se0050246	B23- Se0050247
Date Sampled			Sep 20, 2023	Sep 20, 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
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002
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
Dibutylchloroendate (surr.)	1	%	55	84
Tetrachloro-m-xylene (surr.)	1	%	129	56
Toxaphene	0.005	mg/L	-	< 0.005
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.002	< 0.001
Copper	0.001	mg/L	0.006	< 0.001
Lead	0.001	mg/L	0.003	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.004	< 0.001
Zinc	0.005	mg/L	0.083	< 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

Organochlorine Pesticides

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

Metals M8

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

Testing Site

Melbourne

Brisbane

Extracted

Sep 27, 2023

Sep 25, 2023

Holding Time

7 Days

28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1, 2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	HSA01_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050224	X				X	X	X
2	HSA01_FILL_230920	Sep 20, 2023		Soil	B23-Se0050225	X		X		X	X	X
3	HSA01_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050226	X				X	X	X
4	HSA02_TS_23_0920	Sep 20, 2023		Soil	B23-Se0050227	X				X	X	X
5	HSA02_FILL_230920	Sep 20, 2023		Soil	B23-Se0050228	X		X		X	X	X
6	HSA02_NW_2_30920	Sep 20, 2023		Soil	B23-Se0050229	X				X	X	X
7	HSA03_TS_23	Sep 20, 2023		Soil	B23-Se0050230	X				X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	0920											
8	HSA03_FILL_230920	Sep 20, 2023		Soil	B23-Se0050231	X		X		X	X	X
9	HAS03_NW_230920	Sep 20, 2023		Soil	B23-Se0050232	X				X	X	X
10	HSA04_TS_230920	Sep 20, 2023		Soil	B23-Se0050233	X				X	X	X
11	HSA04_FILL_230920	Sep 20, 2023		Soil	B23-Se0050234	X		X		X	X	X
12	HAS04_NW_230920	Sep 20, 2023		Soil	B23-Se0050235	X				X	X	X
13	HSB01_TS_230920	Sep 20, 2023		Soil	B23-Se0050236	X				X	X	X
14	HSB01_ASH_230920	Sep 20, 2023		Soil	B23-Se0050237	X		X		X	X	X
15	HSB01_NW_230920	Sep 20, 2023		Soil	B23-Se0050238	X				X	X	X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth	Auckland	Christchurch	Tauranga
46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
	30920											
16	HSB02_TS_230920	Sep 20, 2023		Soil	B23-Se0050239	X				X	X	X
17	HSB02_ASH_230920	Sep 20, 2023		Soil	B23-Se0050240	X		X		X	X	X
18	HSB02_NW_230920	Sep 20, 2023		Soil	B23-Se0050241	X				X	X	X
19	HSB03_TS_230920	Sep 20, 2023		Soil	B23-Se0050242	X				X	X	X
20	HSB03_ASH_230920	Sep 20, 2023		Soil	B23-Se0050243	X		X		X	X	X
21	HSB03_NW_230920	Sep 20, 2023		Soil	B23-Se0050244	X				X	X	X
22	QC06_230920	Sep 20, 2023		Soil	B23-Se0050245	X				X	X	X
23	QC08_230921	Sep 20, 2023		Water	B23-Se0050246				X		X	
24	QC09_230921	Sep 20, 2023		Water	B23-Se0050247				X		X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1028239
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Sep 22, 2023 10:00 AM
Due: Sep 29, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	CANCELLED	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X
25	QC10	Sep 20, 2023		Trip Blank (solid)	B23-Se0050248		X					
Test Counts						22	1	7	24	24	24	22

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

Holding times apply from the date of sampling, therefore compliance to 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 then 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
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 a moisture has been determined on a solid sample the result is expressed on a dry 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 is representative of 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 in excess of 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-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	
g-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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	109			70-130	Pass	
4.4'-DDD	%	109			70-130	Pass	
4.4'-DDE	%	105			70-130	Pass	
4.4'-DDT	%	115			70-130	Pass	
a-HCH	%	107			70-130	Pass	
Aldrin	%	110			70-130	Pass	
b-HCH	%	113			70-130	Pass	
d-HCH	%	113			70-130	Pass	
Dieldrin	%	115			70-130	Pass	
Endosulfan I	%	107			70-130	Pass	
Endosulfan II	%	95			70-130	Pass	
Endosulfan sulphate	%	112			70-130	Pass	
Endrin	%	120			70-130	Pass	
Endrin aldehyde	%	107			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
g-HCH (Lindane)	%	107			70-130	Pass	
Heptachlor	%	129			70-130	Pass	
Heptachlor epoxide	%	116			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene			%	114			70-130	Pass	
Methoxychlor			%	110			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	86			80-120	Pass	
Cadmium			%	82			80-120	Pass	
Chromium			%	101			80-120	Pass	
Copper			%	101			80-120	Pass	
Lead			%	102			80-120	Pass	
Mercury			%	107			80-120	Pass	
Nickel			%	102			80-120	Pass	
Zinc			%	93			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Se0049591	NCP	%	105			75-125	Pass	
Cadmium	B23-Se0049591	NCP	%	106			75-125	Pass	
Chromium	B23-Se0049591	NCP	%	100			75-125	Pass	
Copper	B23-Se0049591	NCP	%	96			75-125	Pass	
Lead	B23-Se0049591	NCP	%	98			75-125	Pass	
Mercury	B23-Se0049591	NCP	%	109			75-125	Pass	
Nickel	B23-Se0049591	NCP	%	98			75-125	Pass	
Zinc	B23-Se0049591	NCP	%	94			75-125	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-Se0054464	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4,4'-DDD	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDE	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDT	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	L23-Se0054464	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	L23-Se0054464	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Se0050246	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	B23-Se0050246	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	B23-Se0050246	CP	mg/L	0.002	< 0.001	160	30%	Fail	Q15
Copper	B23-Se0050246	CP	mg/L	0.006	0.005	17	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	B23-Se0050246	CP	mg/L	0.003	0.001	73	30%	Fail	Q15
Mercury	B23-Se0050246	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	B23-Se0050246	CP	mg/L	0.004	0.002	61	30%	Fail	Q15

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
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Metal



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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.

Method of Shipment		<input type="checkbox"/> Courier #	<input checked="" type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal	Name		Signature		Date		Time	
Laboratory Use Only		Received By	STD	BNE	MEL	PER	ADL	NTL	DRW	Signature	Date	Temperature	
		Received By	SVD	BNE	MEL	PER	ADL	NTL	DRW	Signature	Date	Report No	



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 521

☐ Sydney Laboratory

Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smallwood Place Murrumbidgee QLD 4172
07 3902 4900 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory

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

☐ Melbourne Laboratory

6 Monterey Road Dandenong South VIC 3175
03 8554 5000 EnviroSampleVIC@eurofins.com

Company	Tetra Tech Coffey			Project No	278 300	Project Manager	JW	Sample(s)	AM
Address				Project Name	Part of Victorian Health's Greenhouses Remediation	EDD Format	ESDRT + EXCAM	Handed over by	AM
Contact Name	AM			Email for Invoice JW					
Phone No	0410996070			Email for Results JW					
Special Directions				Required Turnaround Time (TAT) Default will be 5 days (not least)					
Purchase Order				Containers Change container type & size if necessary:					
Quote ID No				500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4564, WA Guidelines)					
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)	*Surcharge will apply <input type="checkbox"/> Overnight (reporting by 9am)* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 day* <input type="checkbox"/> 2 days* <input type="checkbox"/> 3 days* <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other()					
				Sample Comments / Dangerous Goods Hazard Warning					
1	HSB02-TS-231016	16.10.23	S						
2	-TSH-								
3	-NW-								
4	-F-								
5	HSB03-TS								
6	-TSH-								
7	-NW-								
8	-F-								
9	HSB04-TS								
10	-ASH-								
Total Counts				10	10	10			

Method of Shipment	<input type="checkbox"/> Courier (#)	Signature	AM	Date	16-10-23	Time	16.30
Laboratory Use Only	Received By	Signature		Date		Temperature	
	Received By	Signature		Date		Report No	



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 085 921

☐ Sydney Laboratory
Unit F3 Bld F-16 Mars Road Lane Cove West NSW 2086
02 9900 8400 EnviroSampleNSW@eurofins.com

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☐ Perth Laboratory
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08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVIC@eurofins.com

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

Company	Tehatech Coffey			Project No	278200	Project Manager	JW	Sampler(s)	AM
Address	15 / 12 Creek St Brisbane CBD 4000			Project Name	NAF	EDD Format	ESJAL EQUIS AC	Handed over by	AM
Contact Name	AM			Email for Invoice					
Phone No	0410946070			Email for Results					
Special Directions									
Purchase Order									
Quote ID No									
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)	Analyses Where metals are requested, please specify 'Total' or 'Filtered'. SURTE code must be used to attract SURTE pricing.					
11	HSB04 - NW - 231016	16/10/23	S	X	X	X	X	X	X
12	↓ - F -								
13	HSB05 - TS -								
14	↓ - ASH -								
15	↓ - F -								
16	HSB06 - TS -								
17	↓ - ASH -								
18	↓ - NW -								
19	↓ - F -								
20	Total Counts			7	9	9			

Method of Shipment	<input type="checkbox"/> Courier (#)	Courier Name	Signature	Date	Time
Laboratory Use Only	Received By	Signature	Date	Time	Report No

Eurofins Environment Testing Australia Pty Ltd
035208 5110 Modified by: Dr. R. Symons Approved by: G. Jackson Approved on: 8 August 2019



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing | ABN 50 005 085 521

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02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory
Unit 1 21 Smallwood Place Murrumbidgee 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 Montney Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

4/4

Company	Tetra Tech Caffey			Project No	278300	Project Manager	Jeremy Wicks	Sample(s)	AM					
Address	Level 5, 12 Creek Street Brisbane CBD 4000			Project Name	DVA	EDD Format	Excel	Handed over by	AM					
Contact Name	AUSTIN M'LAY			Email for Invoice Jeremy Wicks										
Phone No	0410996070			Email for Results Jeremy.Wicks@tetratech.com										
Special Directions	Please send Trip Samples to ALS Shipboard for secondary analysis. *													
Purchase Order														
Quote ID No														
No	Client Sample ID	Sampled Date/Time (dd/mm/yyyy hh:mm)	Matrix Solid (S) Water (W)	Analyses			Containers							
				Where metals are requested, please specify 'Total' or 'Filtered'. SURTE code must be used to attract SURTE pricing.			Change container type & size if necessary.							
21	QC01-DVP-231016	16.10.23	S	X	X	X	8 metals	500mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4004, WA Guidelines)	Required Turnaround Time (TAT) Default will be 5 days if not stated.
22	QC02-TRAP													*Surcharge will apply <input type="checkbox"/> Overnight (reporting by 8am) * <input type="checkbox"/> Same day * <input type="checkbox"/> 1 day * <input type="checkbox"/> 2 days * <input type="checkbox"/> 3 days * <input type="checkbox"/> 4 days (Standard) <input type="checkbox"/> Other ()
23	QC03-DVP													Sample Comments / Dangerous Goods Hazard Warning
24	QC04-TRAP													Please send to ALS*
25	QC05-RB													Please send to ALS*
26	QC06-FB													
27	QC07-TB													
28														
29														
30														
Total Counts				7	7	4								
				Method of Shipment			Courier (#)			Date			Time	
				<input type="checkbox"/> Hand Delivered			AUSTIN M'LAY			16/10/23			16.30	
				Received By			Signature			Date			Temperature	
				Received By			Signature			Date			Report No	

Eurofins Environment Testing Australia Pty Ltd

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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 NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID:	278300
Turnaround time:	5 Day
Date/Time received	Oct 16, 2023 4:30 PM
Eurofins reference	1035652

Sample Information

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

Notes

ATTN: No bag was provided for samples QC01_DUP_231016 & QC03_DUP_231016, asbestos testing has been cancelled.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Geelong Laboratory - NATA # 1261 Site # 25403

Sydney Laboratory - NATA # 1261 Site # 18217

Brisbane Laboratory - NATA # 1261 Site # 20794

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
1	T22_WA_231016	Oct 16, 2023		Soil	B23-Oc0038263	X		X	X	X	X	
2	T22_WB_231016	Oct 16, 2023		Soil	B23-Oc0038264	X		X	X	X	X	
3	T22_F_231016	Oct 16, 2023		Soil	B23-Oc0038265	X		X	X	X	X	
4	T23_WA_231016	Oct 16, 2023		Soil	B23-Oc0038266	X		X	X	X	X	
5	T23_WB_231016	Oct 16, 2023		Soil	B23-Oc0038267	X		X	X	X	X	
6	T23_F_231016	Oct 16, 2023		Soil	B23-Oc0038268	X		X	X	X	X	



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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
7	HSB01_TS_231016	Oct 16, 2023		Soil	B23-Oc0038269	X			X	X	X	
8	HSB01_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038270	X			X	X	X	
9	HSB01_NW_231016	Oct 16, 2023		Soil	B23-Oc0038271	X			X	X	X	
10	HSB01_F_231016	Oct 16, 2023		Soil	B23-Oc0038272	X			X	X	X	
11	HSB02_TS_231016	Oct 16, 2023		Soil	B23-Oc0038273	X			X	X	X	
12	HSB02_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038274	X			X	X	X	
13	HSB02_NW_231016	Oct 16, 2023		Soil	B23-Oc0038275	X			X	X	X	
14	HSB02_F_231	Oct 16, 2023		Soil	B23-Oc0038276	X			X	X	X	



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Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEX and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
15	HSB03_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038277	X			X	X	X	
16	HSB03_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038278	X			X	X	X	
17	HSB03_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038279	X			X	X	X	
18	HSB03_F_231 016	Oct 16, 2023		Soil	B23-Oc0038280	X			X	X	X	
19	HSB04_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038281	X			X	X	X	
20	HSB04_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038282	X			X	X	X	
21	HSB04_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038283	X			X	X	X	



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Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
22	HSB04_F_231016	Oct 16, 2023		Soil	B23-Oc0038284	X			X	X	X	
23	HSB05_TS_231016	Oct 16, 2023		Soil	B23-Oc0038285	X			X	X	X	
24	HSB05_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038286		X		X	X	X	
25	HSB05_F_231016	Oct 16, 2023		Soil	B23-Oc0038287		X		X	X	X	
26	HSB06_TS_231016	Oct 16, 2023		Soil	B23-Oc0038288		X		X	X	X	
27	HSB06_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038289		X		X	X	X	
28	HSB06_NW_231016	Oct 16, 2023		Soil	B23-Oc0038290		X		X	X	X	
29	HSB06_F_231	Oct 16, 2023		Soil	B23-Oc0038291		X		X	X	X	



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
30	QC01_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038292				X	X	X	
31	QC03_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038293				X	X	X	
32	QC05_RB	Oct 16, 2023		Water	B23-Oc0038294			X		X		
33	QC06_FB	Oct 16, 2023		Water	B23-Oc0038295			X		X		
34	QC07_TB	Oct 16, 2023		Trip Blank (solid)	B23-Oc0038296							X
Test Counts						29	29	33	33	33	31	1

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Jeremy Wicks
Report 1035652-AID
Project Name DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID 278300
Received Date Oct 16, 2023
Date Reported Nov 01, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID 278300
Date Sampled Oct 16, 2023
Report 1035652-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
T22_WA_231016	23-Oc0038263	Oct 16, 2023	Approximate Sample 471g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T22_WB_231016	23-Oc0038264	Oct 16, 2023	Approximate Sample 609g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T22_F_231016	23-Oc0038265	Oct 16, 2023	Approximate Sample 502g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23_WA_231016	23-Oc0038266	Oct 16, 2023	Approximate Sample 613g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23_WB_231016	23-Oc0038267	Oct 16, 2023	Approximate Sample 378g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23_F_231016	23-Oc0038268	Oct 16, 2023	Approximate Sample 432g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_TS_231016	23-Oc0038269	Oct 16, 2023	Approximate Sample 441g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_ASH_231016	23-Oc0038270	Oct 16, 2023	Approximate Sample 509g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSB01_NW_231016	23-Oc0038271	Oct 16, 2023	Approximate Sample 573g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB01_F_231016	23-Oc0038272	Oct 16, 2023	Approximate Sample 541g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_TS_231016	23-Oc0038273	Oct 16, 2023	Approximate Sample 460g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_ASH_231016	23-Oc0038274	Oct 16, 2023	Approximate Sample 535g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_NW_231016	23-Oc0038275	Oct 16, 2023	Approximate Sample 587g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB02_F_231016	23-Oc0038276	Oct 16, 2023	Approximate Sample 487g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_TS_231016	23-Oc0038277	Oct 16, 2023	Approximate Sample 482g Sample consisted of: Brown fine-grained clayey soil, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_ASH_231016	23-Oc0038278	Oct 16, 2023	Approximate Sample 501g Sample consisted of: Brown coarse-grained soil, coal, glass, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_NW_231016	23-Oc0038279	Oct 16, 2023	Approximate Sample 515g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB03_F_231016	23-Oc0038280	Oct 16, 2023	Approximate Sample 674g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB04_TS_231016	23-Oc0038281	Oct 16, 2023	Approximate Sample 522g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB04_ASH_231016	23-Oc0038282	Oct 16, 2023	Approximate Sample 452g Sample consisted of: Brown fine-grained clayey soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB04_NW_231016	23-Oc0038283	Oct 16, 2023	Approximate Sample 522g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSB04_F_231016	23-Oc0038284	Oct 16, 2023	Approximate Sample 775g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB05_TS_231016	23-Oc0038285	Oct 16, 2023	Approximate Sample 422g Sample consisted of: Brown coarse grained sandy clayey soil, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB05_ASH_231016	23-Oc0038286	Oct 16, 2023	Approximate Sample 391g Sample consisted of: Brown coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB05_F_231016	23-Oc0038287	Oct 16, 2023	Approximate Sample 627g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB06_TS_231016	23-Oc0038288	Oct 16, 2023	Approximate Sample 553g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB06_ASH_231016	23-Oc0038289	Oct 16, 2023	Approximate Sample 367g Sample consisted of: Dark grey coarse-grained soil, coal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB06_NW_231016	23-Oc0038290	Oct 16, 2023	Approximate Sample 635g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB06_F_231016	23-Oc0038291	Oct 16, 2023	Approximate Sample 447g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Oct 17, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	T22_WA_231016	Oct 16, 2023		Soil	B23-Oc0038263	X		X	X	X	
2	T22_WB_231016	Oct 16, 2023		Soil	B23-Oc0038264	X		X	X	X	
3	T22_F_231016	Oct 16, 2023		Soil	B23-Oc0038265	X		X	X	X	
4	T23_WA_231016	Oct 16, 2023		Soil	B23-Oc0038266	X		X	X	X	
5	T23_WB_231016	Oct 16, 2023		Soil	B23-Oc0038267	X		X	X	X	
6	T23_F_231016	Oct 16, 2023		Soil	B23-Oc0038268	X		X	X	X	
7	HSB01_TS_23	Oct 16, 2023		Soil	B23-Oc0038269	X		X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
	1016										
8	HSB01_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038270	X		X	X	X	
9	HSB01_NW_231016	Oct 16, 2023		Soil	B23-Oc0038271	X		X	X	X	
10	HSB01_F_231016	Oct 16, 2023		Soil	B23-Oc0038272	X		X	X	X	
11	HSB02_TS_231016	Oct 16, 2023		Soil	B23-Oc0038273	X		X	X	X	
12	HSB02_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038274	X		X	X	X	
13	HSB02_NW_231016	Oct 16, 2023		Soil	B23-Oc0038275	X		X	X	X	
14	HSB02_F_231016	Oct 16, 2023		Soil	B23-Oc0038276	X		X	X	X	
15	HSB03_TS_23	Oct 16, 2023		Soil	B23-Oc0038277	X		X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
	1016										
16	HSB03_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038278	X		X	X	X	
17	HSB03_NW_231016	Oct 16, 2023		Soil	B23-Oc0038279	X		X	X	X	
18	HSB03_F_231016	Oct 16, 2023		Soil	B23-Oc0038280	X		X	X	X	
19	HSB04_TS_231016	Oct 16, 2023		Soil	B23-Oc0038281	X		X	X	X	
20	HSB04_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038282	X		X	X	X	
21	HSB04_NW_231016	Oct 16, 2023		Soil	B23-Oc0038283	X		X	X	X	
22	HSB04_F_231016	Oct 16, 2023		Soil	B23-Oc0038284	X		X	X	X	
23	HSB05_TS_23	Oct 16, 2023		Soil	B23-Oc0038285	X		X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
	1016										
24	HSB05_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038286	X		X	X	X	
25	HSB05_F_231016	Oct 16, 2023		Soil	B23-Oc0038287	X		X	X	X	
26	HSB06_TS_231016	Oct 16, 2023		Soil	B23-Oc0038288	X		X	X	X	
27	HSB06_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038289	X		X	X	X	
28	HSB06_NW_231016	Oct 16, 2023		Soil	B23-Oc0038290	X		X	X	X	
29	HSB06_F_231016	Oct 16, 2023		Soil	B23-Oc0038291	X		X	X	X	
30	QC01_DUP_231016	Oct 16, 2023		Soil	B23-Oc0038292			X	X	X	
31	QC03_DUP_2	Oct 16, 2023		Soil	B23-Oc0038293			X	X	X	

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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X					
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X
31016											
32	QC05_RB	Oct 16, 2023		Water	B23-Oc0038294		X		X		
33	QC06_FB	Oct 16, 2023		Water	B23-Oc0038295		X		X		
34	QC07_TB	Oct 16, 2023		Trip Blank (solid)	B23-Oc0038296						X
Test Counts						29	33	33	33	31	1

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Oc0038263, 23-Oc0038267, 23-Oc0038269, 23-Oc0038273, 23-Oc0038276, 23-Oc0038277, 23-Oc0038282, 23-Oc0038285, 23-Oc0038286, 23-Oc0038289, and 23-Oc0038291: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

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

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos

Authorised by:

Sayed Abu Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
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Chatswood
NSW 2067



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Attention: **Jeremy Wicks**

Report **1035652-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES**
Project ID **278300**
Received Date **Oct 16, 2023**

Client Sample ID			T22_WA_2310 16	T22_WB_2310 16	T22_F_231016	T23_WA_2310 16
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038263	B23- Oc0038264	B23- Oc0038265	B23- Oc0038266
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	124	97	95	96
Tetrachloro-m-xylene (surr.)	1	%	102	104	106	107
Heavy Metals						
Arsenic	2	mg/kg	11	10	10	9.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	140	130	110
Copper	5	mg/kg	19	24	23	12
Lead	5	mg/kg	< 5	< 5	< 5	5.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			T22_WA_2310 16	T22_WB_2310 16	T22_F_231016	T23_WA_2310 16
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038263	B23- Oc0038264	B23- Oc0038265	B23- Oc0038266
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	44	49	49	19
Zinc	5	mg/kg	25	33	35	22
Sample Properties						
% Moisture	1	%	20	23	21	16

Client Sample ID			T23_WB_2310 16	T23_F_231016	HSB01_TS_23 1016	HSB01_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038267	B23- Oc0038268	B23- Oc0038269	B23- Oc0038270
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	86	144	143	142
Tetrachloro-m-xylene (surr.)	1	%	108	135	99	112
Heavy Metals						
Arsenic	2	mg/kg	11	20	19	40
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	130	42	29	23
Copper	5	mg/kg	9.7	23	17	22
Lead	5	mg/kg	5.6	72	130	42
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	18	12	9.2
Zinc	5	mg/kg	21	140	220	150

Client Sample ID			T23_WB_2310 16	T23_F_231016	HSB01_TS_23 1016	HSB01_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038267	B23- Oc0038268	B23- Oc0038269	B23- Oc0038270
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	15	16	3.2	1.6

Client Sample ID			HSB01_NW_23 1016	HSB01_F_2310 16	HSB02_TS_23 1016	HSB02_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038271	B23- Oc0038272	B23- Oc0038273	B23- Oc0038274
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	69	131	150	INT
Tetrachloro-m-xylene (surr.)	1	%	104	102	115	110
Heavy Metals						
Arsenic	2	mg/kg	3.0	4.5	12	22
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	76	85	32	39
Copper	5	mg/kg	14	15	19	25
Lead	5	mg/kg	5.7	9.0	160	95
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	34	35	14	16
Zinc	5	mg/kg	29	34	250	140
Sample Properties						
% Moisture	1	%	11	9.8	7.1	7.4

Client Sample ID			HSB02_NW_23 1016	HSB02_F_2310 16	HSB03_TS_23 1016	HSB03_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038275	B23- Oc0038276	B23- Oc0038277	B23- Oc0038278
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	99	119	120	INT
Tetrachloro-m-xylene (surr.)	1	%	87	110	102	110
Heavy Metals						
Arsenic	2	mg/kg	5.8	3.0	11	21
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	86	26	36
Copper	5	mg/kg	23	14	21	22
Lead	5	mg/kg	8.4	5.6	200	74
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	57	34	13	17
Zinc	5	mg/kg	38	24	270	94
Sample Properties						
% Moisture	1	%	14	11	4.6	8.1

Client Sample ID			HSB03_NW_23 1016	HSB03_F_2310 16	HSB04_TS_23 1016	HSB04_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038279	B23- Oc0038280	B23- Oc0038281	B23- Oc0038282
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	N/A	N/A	N/A	N/A
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	114	103	110	INT
Tetrachloro-m-xylene (surr.)	1	%	111	107	112	104
Heavy Metals						
Arsenic	2	mg/kg	7.6	22	13	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	46	53	26	16
Copper	5	mg/kg	7.7	11	20	46
Lead	5	mg/kg	9.0	22	190	140
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	21	16	14
Zinc	5	mg/kg	24	36	290	180
Sample Properties						
% Moisture	1	%	4.3	7.2	5.6	7.3

Client Sample ID			HSB04_NW_23 1016	HSB04_F_2310 16	HSB05_TS_23 1016	HSB05_ASH_2 31016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038283	B23- Oc0038284	B23- Oc0038285	B23- Oc0038286
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	n/a	n/a	n/a	n/a
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	94	93	94	70
Tetrachloro-m-xylene (surr.)	1	%	105	107	98	84
Heavy Metals						
Arsenic	2	mg/kg	31	44	12	36
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	60	80	18	6.7
Copper	5	mg/kg	16	25	28	43
Lead	5	mg/kg	190	370	160	39
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	32	12	12
Zinc	5	mg/kg	91	150	230	110
Sample Properties						
% Moisture	1	%	7.3	6.3	19	12

Client Sample ID			HSB05_F_2310 16	HSB06_TS_23 1016	HSB06_ASH_2 31016	HSB06_NW_23 1016
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0038287	B23- Oc0038288	B23- Oc0038289	B23- Oc0038290
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	n/a	n/a	n/a	n/a
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorobenzene (surr.)	1	%	76	77	90	85
Tetrachloro-m-xylene (surr.)	1	%	98	95	101	97
Heavy Metals						
Arsenic	2	mg/kg	14	7.8	7.3	23
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	53	35	6.6	130
Copper	5	mg/kg	7.0	19	7.6	24
Lead	5	mg/kg	12	110	94	52
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	18	< 5	56
Zinc	5	mg/kg	26	150	50	100
Sample Properties						
% Moisture	1	%	14	1.0	1.4	12

Client Sample ID			HSB06_F_2310 16	QC01_DUP_23 1016	QC03_DUP_23 1016	QC07_TB
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B23- Oc0038291	B23- Oc0038292	B23- Oc0038293	B23- Oc0038296
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 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	N/A	n/a	n/a	-
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	%	115	86	78	-
Tetrachloro-m-xylene (surr.)	1	%	143	96	83	-
Heavy Metals						
Arsenic	2	mg/kg	20	5.9	16	-
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chromium	5	mg/kg	70	29	17	-
Copper	5	mg/kg	19	15	17	-
Lead	5	mg/kg	39	49	81	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	38	9.7	8.7	-
Zinc	5	mg/kg	77	120	120	-
Sample Properties						
% Moisture	1	%	6.0	5.6	3.1	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20

Client Sample ID			HSB06_F_2310 16	QC01_DUP_23 1016	QC03_DUP_23 1016	QC07_TB
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B23- Oc0038291	B23- Oc0038292	B23- Oc0038293	B23- Oc0038296
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	89
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	-	-	< 20

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	Brisbane	Oct 22, 2023	14 Days
- Method: LTM-ORG-2220 OCP and PCB in Soil and Water			
Metals M8	Brisbane	Oct 22, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Brisbane	Oct 20, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Naphthalene	Brisbane	Oct 20, 2023	14 Days
- Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Brisbane	Oct 20, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Brisbane	Oct 20, 2023	14 Days
- Method: USEPA SW846 8260			
Total Recoverable Hydrocarbons	Brisbane	Oct 20, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	T22_WA_231016	Oct 16, 2023		Soil	B23-Oc0038263	X			X	X	X	
2	T22_WB_231016	Oct 16, 2023		Soil	B23-Oc0038264	X			X	X	X	
3	T22_F_231016	Oct 16, 2023		Soil	B23-Oc0038265	X			X	X	X	
4	T23_WA_231016	Oct 16, 2023		Soil	B23-Oc0038266	X			X	X	X	
5	T23_WB_231016	Oct 16, 2023		Soil	B23-Oc0038267	X			X	X	X	
6	T23_F_231016	Oct 16, 2023		Soil	B23-Oc0038268	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Chatswood
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Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
7	HSB01_TS_231016	Oct 16, 2023		Soil	B23-Oc0038269	X			X	X	X	
8	HSB01_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038270	X			X	X	X	
9	HSB01_NW_231016	Oct 16, 2023		Soil	B23-Oc0038271	X			X	X	X	
10	HSB01_F_231016	Oct 16, 2023		Soil	B23-Oc0038272	X			X	X	X	
11	HSB02_TS_231016	Oct 16, 2023		Soil	B23-Oc0038273	X			X	X	X	
12	HSB02_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038274	X			X	X	X	
13	HSB02_NW_231016	Oct 16, 2023		Soil	B23-Oc0038275	X			X	X	X	
14	HSB02_F_231	Oct 16, 2023		Soil	B23-Oc0038276	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
15	HSB03_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038277	X			X	X	X	
16	HSB03_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038278	X			X	X	X	
17	HSB03_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038279	X			X	X	X	
18	HSB03_F_231 016	Oct 16, 2023		Soil	B23-Oc0038280	X			X	X	X	
19	HSB04_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038281	X			X	X	X	
20	HSB04_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038282	X			X	X	X	
21	HSB04_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038283	X			X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
22	HSB04_F_231016	Oct 16, 2023		Soil	B23-Oc0038284	X			X	X	X	
23	HSB05_TS_231016	Oct 16, 2023		Soil	B23-Oc0038285	X			X	X	X	
24	HSB05_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038286		X		X	X	X	
25	HSB05_F_231016	Oct 16, 2023		Soil	B23-Oc0038287		X		X	X	X	
26	HSB06_TS_231016	Oct 16, 2023		Soil	B23-Oc0038288		X		X	X	X	
27	HSB06_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038289		X		X	X	X	
28	HSB06_NW_231016	Oct 16, 2023		Soil	B23-Oc0038290		X		X	X	X	
29	HSB06_F_231	Oct 16, 2023		Soil	B23-Oc0038291		X		X	X	X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
30	QC01_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038292				X	X	X	
31	QC03_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038293				X	X	X	
32	QC05_RB	Oct 16, 2023		Water	B23-Oc0038294			X		X		
33	QC06_FB	Oct 16, 2023		Water	B23-Oc0038295			X		X		
34	QC07_TB	Oct 16, 2023		Trip Blank (solid)	B23-Oc0038296							X
Test Counts						29	29	33	33	33	31	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Aldrin and Dieldrin (Total)*	mg/kg	< 0.05			0.05	Pass	
DDT + DDE + DDD (Total)*	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/kg	< 20			20	Pass	
LCS - % Recovery							

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides										
Chlordanes - Total				%	120			70-130	Pass	
4.4'-DDD				%	78			70-130	Pass	
4.4'-DDE				%	81			70-130	Pass	
4.4'-DDT				%	95			70-130	Pass	
a-HCH				%	77			70-130	Pass	
Aldrin				%	79			70-130	Pass	
b-HCH				%	80			70-130	Pass	
d-HCH				%	83			70-130	Pass	
Dieldrin				%	99			70-130	Pass	
Endosulfan I				%	79			70-130	Pass	
Endosulfan II				%	116			70-130	Pass	
Endosulfan sulphate				%	114			70-130	Pass	
Endrin				%	88			70-130	Pass	
Endrin aldehyde				%	83			70-130	Pass	
Endrin ketone				%	118			70-130	Pass	
g-HCH (Lindane)				%	81			70-130	Pass	
Heptachlor				%	99			70-130	Pass	
Heptachlor epoxide				%	75			70-130	Pass	
Hexachlorobenzene				%	77			70-130	Pass	
Methoxychlor				%	88			70-130	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	114			80-120	Pass	
Cadmium				%	108			80-120	Pass	
Chromium				%	106			80-120	Pass	
Copper				%	104			80-120	Pass	
Lead				%	106			80-120	Pass	
Mercury				%	101			80-120	Pass	
Nickel				%	104			80-120	Pass	
Zinc				%	100			80-120	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions										
TRH C6-C9				%	109			70-130	Pass	
LCS - % Recovery										
BTEX										
Benzene				%	96			70-130	Pass	
Toluene				%	104			70-130	Pass	
Ethylbenzene				%	112			70-130	Pass	
m&p-Xylenes				%	112			70-130	Pass	
Xylenes - Total*				%	113			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons										
TRH C6-C10				%	109			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
4.4'-DDT	B23-Oc0054953	NCP	%	74				70-130	Pass	
Endrin	B23-Oc0054953	NCP	%	93				70-130	Pass	
Endrin aldehyde	B23-Oc0054953	NCP	%	114				70-130	Pass	
Methoxychlor	B23-Oc0054953	NCP	%	81				70-130	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	B23-Oc0038263	CP	%	98				75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	B23-Oc0038263	CP	%	103		75-125	Pass	
Chromium	B23-Oc0038263	CP	%	105		75-125	Pass	
Copper	B23-Oc0038263	CP	%	95		75-125	Pass	
Lead	B23-Oc0038263	CP	%	97		75-125	Pass	
Mercury	B23-Oc0038263	CP	%	103		75-125	Pass	
Nickel	B23-Oc0038263	CP	%	96		75-125	Pass	
Zinc	B23-Oc0038263	CP	%	93		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Oc0038282	CP	%	93		75-125	Pass	
Cadmium	B23-Oc0038282	CP	%	99		75-125	Pass	
Chromium	B23-Oc0038282	CP	%	89		75-125	Pass	
Copper	B23-Oc0038282	CP	%	86		75-125	Pass	
Lead	B23-Oc0038282	CP	%	85		75-125	Pass	
Mercury	B23-Oc0038282	CP	%	95		75-125	Pass	
Nickel	B23-Oc0038282	CP	%	89		75-125	Pass	
Zinc	B23-Oc0038282	CP	%	89		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	B23-Oc0038284	CP	%	73		70-130	Pass	
4,4'-DDD	B23-Oc0038284	CP	%	97		70-130	Pass	
4,4'-DDE	B23-Oc0038284	CP	%	80		70-130	Pass	
a-HCH	B23-Oc0038284	CP	%	74		70-130	Pass	
Aldrin	B23-Oc0038284	CP	%	75		70-130	Pass	
b-HCH	B23-Oc0038284	CP	%	72		70-130	Pass	
d-HCH	B23-Oc0038284	CP	%	75		70-130	Pass	
Dieldrin	B23-Oc0038284	CP	%	82		70-130	Pass	
Endosulfan I	B23-Oc0038284	CP	%	79		70-130	Pass	
Endosulfan II	B23-Oc0038284	CP	%	78		70-130	Pass	
Endosulfan sulphate	B23-Oc0038284	CP	%	75		70-130	Pass	
Endrin ketone	B23-Oc0038284	CP	%	80		70-130	Pass	
g-HCH (Lindane)	B23-Oc0038284	CP	%	74		70-130	Pass	
Heptachlor	B23-Oc0038284	CP	%	77		70-130	Pass	
Heptachlor epoxide	B23-Oc0038284	CP	%	81		70-130	Pass	
Hexachlorobenzene	B23-Oc0038284	CP	%	75		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Oc0038284	CP	%	87		75-125	Pass	
Cadmium	B23-Oc0038284	CP	%	100		75-125	Pass	
Copper	B23-Oc0038284	CP	%	79		75-125	Pass	
Mercury	B23-Oc0038284	CP	%	96		75-125	Pass	
Nickel	B23-Oc0038284	CP	%	85		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	B23-Oc0029837	NCP	%	89		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	B23-Oc0029837	NCP	%	93		70-130	Pass	
Toluene	B23-Oc0029837	NCP	%	97		70-130	Pass	
Ethylbenzene	B23-Oc0029837	NCP	%	100		70-130	Pass	
m&p-Xylenes	B23-Oc0029837	NCP	%	96		70-130	Pass	
o-Xylene	B23-Oc0029837	NCP	%	97		70-130	Pass	
Xylenes - Total*	B23-Oc0029837	NCP	%	96		70-130	Pass	
Spike - % Recovery								

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	B23-Oc0029837	NCP	%	88			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	B23-Oc0034166	NCP	%	9.1	9.0	1.2	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Oc0038272	CP	mg/kg	4.5	5.6	23	30%	Pass	
Chromium	B23-Oc0038272	CP	mg/kg	85	85	<1	30%	Pass	
Copper	B23-Oc0038272	CP	mg/kg	15	15	2.9	30%	Pass	
Lead	B23-Oc0038272	CP	mg/kg	9.0	12	30	30%	Pass	
Nickel	B23-Oc0038272	CP	mg/kg	35	36	2.7	30%	Pass	
Zinc	B23-Oc0038272	CP	mg/kg	34	37	11	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Oc0038273	CP	mg/kg	12	14	15	30%	Pass	
Cadmium	B23-Oc0038273	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	B23-Oc0038273	CP	mg/kg	32	34	7.4	30%	Pass	
Copper	B23-Oc0038273	CP	mg/kg	19	20	4.2	30%	Pass	
Lead	B23-Oc0038273	CP	mg/kg	160	170	6.5	30%	Pass	
Mercury	B23-Oc0038273	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	B23-Oc0038273	CP	mg/kg	14	15	9.2	30%	Pass	
Zinc	B23-Oc0038273	CP	mg/kg	250	250	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-Oc0038282	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-Oc0038282	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-Oc0038283	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
b-HCH	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0038283	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0038283	CP	mg/kg	31	38	21	30%	Pass
Chromium	B23-Oc0038283	CP	mg/kg	60	65	8.5	30%	Pass
Copper	B23-Oc0038283	CP	mg/kg	16	21	27	30%	Pass
Mercury	B23-Oc0038283	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0038283	CP	mg/kg	23	30	27	30%	Pass
Zinc	B23-Oc0038283	CP	mg/kg	91	120	24	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0038291	CP	mg/kg	20	20	2.5	30%	Pass
Chromium	B23-Oc0038291	CP	mg/kg	70	81	16	30%	Pass
Copper	B23-Oc0038291	CP	mg/kg	19	17	12	30%	Pass
Lead	B23-Oc0038291	CP	mg/kg	39	38	3.2	30%	Pass
Mercury	B23-Oc0038291	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0038291	CP	mg/kg	38	40	5.2	30%	Pass
Zinc	B23-Oc0038291	CP	mg/kg	77	76	1.7	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Naphthalene	B23-Oc0029825	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B23-Oc0029825	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	B23-Oc0029825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	B23-Oc0029825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	B23-Oc0029825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	B23-Oc0029825	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	B23-Oc0029825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	B23-Oc0029825	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C10	B23-Oc0029825	NCP	mg/kg	< 20	< 20	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised by:

Zoe Flynn	Analytical Services Manager
Angelique Lang-Frey	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-Volatile
Sayed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1035652-W**
Project name **DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES**
Project ID **278300**
Received Date **Oct 16, 2023**

Client Sample ID			QC05_RB	QC06_FB
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Oc0038294	B23- Oc0038295
Date Sampled			Oct 16, 2023	Oct 16, 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
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
Dibutylchloredate (surr.)	1	%	85	104
Tetrachloro-m-xylene (surr.)	1	%	115	94
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
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	0.008	0.008

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 (USEPA 8270)	Melbourne	Oct 19, 2023	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Oct 18, 2023	28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS GREENSLOPES
Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	T22_WA_231016	Oct 16, 2023		Soil	B23-Oc0038263	X			X	X	X	
2	T22_WB_231016	Oct 16, 2023		Soil	B23-Oc0038264	X			X	X	X	
3	T22_F_231016	Oct 16, 2023		Soil	B23-Oc0038265	X			X	X	X	
4	T23_WA_231016	Oct 16, 2023		Soil	B23-Oc0038266	X			X	X	X	
5	T23_WB_231016	Oct 16, 2023		Soil	B23-Oc0038267	X			X	X	X	
6	T23_F_231016	Oct 16, 2023		Soil	B23-Oc0038268	X			X	X	X	

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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
7	HSB01_TS_231016	Oct 16, 2023		Soil	B23-Oc0038269	X			X	X	X	
8	HSB01_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038270	X			X	X	X	
9	HSB01_NW_231016	Oct 16, 2023		Soil	B23-Oc0038271	X			X	X	X	
10	HSB01_F_231016	Oct 16, 2023		Soil	B23-Oc0038272	X			X	X	X	
11	HSB02_TS_231016	Oct 16, 2023		Soil	B23-Oc0038273	X			X	X	X	
12	HSB02_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038274	X			X	X	X	
13	HSB02_NW_231016	Oct 16, 2023		Soil	B23-Oc0038275	X			X	X	X	
14	HSB02_F_231	Oct 16, 2023		Soil	B23-Oc0038276	X			X	X	X	

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Project ID: 278300

Order No.:
Report #: 1035652
Phone: +61 2 9406 1000
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Received: Oct 16, 2023 4:30 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEX and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
15	HSB03_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038277	X			X	X	X	
16	HSB03_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038278	X			X	X	X	
17	HSB03_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038279	X			X	X	X	
18	HSB03_F_231 016	Oct 16, 2023		Soil	B23-Oc0038280	X			X	X	X	
19	HSB04_TS_23 1016	Oct 16, 2023		Soil	B23-Oc0038281	X			X	X	X	
20	HSB04_ASH_ 231016	Oct 16, 2023		Soil	B23-Oc0038282	X			X	X	X	
21	HSB04_NW_2 31016	Oct 16, 2023		Soil	B23-Oc0038283	X			X	X	X	

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

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Received: Oct 16, 2023 4:30 PM
Due: Oct 23, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
22	HSB04_F_231016	Oct 16, 2023		Soil	B23-Oc0038284	X			X	X	X	
23	HSB05_TS_231016	Oct 16, 2023		Soil	B23-Oc0038285	X			X	X	X	
24	HSB05_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038286		X		X	X	X	
25	HSB05_F_231016	Oct 16, 2023		Soil	B23-Oc0038287		X		X	X	X	
26	HSB06_TS_231016	Oct 16, 2023		Soil	B23-Oc0038288		X		X	X	X	
27	HSB06_ASH_231016	Oct 16, 2023		Soil	B23-Oc0038289		X		X	X	X	
28	HSB06_NW_231016	Oct 16, 2023		Soil	B23-Oc0038290		X		X	X	X	
29	HSB06_F_231	Oct 16, 2023		Soil	B23-Oc0038291		X		X	X	X	

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Received: Oct 16, 2023 4:30 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	X		
Geelong Laboratory - NATA # 1261 Site # 25403							X					
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Brisbane Laboratory - NATA # 1261 Site # 20794								X	X	X	X	X
	016											
30	QC01_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038292				X	X	X	
31	QC03_DUP_2 31016	Oct 16, 2023		Soil	B23-Oc0038293				X	X	X	
32	QC05_RB	Oct 16, 2023		Water	B23-Oc0038294			X		X		
33	QC06_FB	Oct 16, 2023		Water	B23-Oc0038295			X		X		
34	QC07_TB	Oct 16, 2023		Trip Blank (solid)	B23-Oc0038296							X
Test Counts						29	29	33	33	33	31	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-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	
g-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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	90			70-130	Pass	
4,4'-DDD	%	73			70-130	Pass	
4,4'-DDE	%	99			70-130	Pass	
4,4'-DDT	%	118			70-130	Pass	
a-HCH	%	73			70-130	Pass	
Aldrin	%	111			70-130	Pass	
b-HCH	%	77			70-130	Pass	
d-HCH	%	76			70-130	Pass	
Dieldrin	%	112			70-130	Pass	
Endosulfan I	%	116			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	112			70-130	Pass	
Endrin	%	95			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	108			70-130	Pass	
g-HCH (Lindane)	%	71			70-130	Pass	
Heptachlor	%	73			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide				%	104			70-130	Pass	
Hexachlorobenzene				%	72			70-130	Pass	
Methoxychlor				%	103			70-130	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	95			80-120	Pass	
Cadmium				%	96			80-120	Pass	
Chromium				%	102			80-120	Pass	
Copper				%	99			80-120	Pass	
Lead				%	97			80-120	Pass	
Mercury				%	92			80-120	Pass	
Nickel				%	100			80-120	Pass	
Zinc				%	100			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	B23-Oc0025473	NCP	%	85				70-130	Pass	
4.4'-DDD	B23-Oc0025473	NCP	%	106				70-130	Pass	
4.4'-DDE	B23-Oc0025473	NCP	%	78				70-130	Pass	
4.4'-DDT	B23-Oc0025473	NCP	%	99				70-130	Pass	
a-HCH	B23-Oc0025473	NCP	%	119				70-130	Pass	
Aldrin	B23-Oc0025473	NCP	%	90				70-130	Pass	
b-HCH	B23-Oc0025473	NCP	%	101				70-130	Pass	
d-HCH	B23-Oc0025473	NCP	%	115				70-130	Pass	
Dieldrin	B23-Oc0025473	NCP	%	87				70-130	Pass	
Endosulfan I	B23-Oc0025473	NCP	%	94				70-130	Pass	
Endosulfan II	B23-Oc0025473	NCP	%	108				70-130	Pass	
Endosulfan sulphate	B23-Oc0025473	NCP	%	89				70-130	Pass	
Endrin	B23-Oc0025473	NCP	%	111				70-130	Pass	
Endrin aldehyde	B23-Oc0025473	NCP	%	92				70-130	Pass	
Endrin ketone	B23-Oc0025473	NCP	%	77				70-130	Pass	
g-HCH (Lindane)	B23-Oc0025473	NCP	%	124				70-130	Pass	
Heptachlor	B23-Oc0025473	NCP	%	87				70-130	Pass	
Heptachlor epoxide	B23-Oc0025473	NCP	%	87				70-130	Pass	
Hexachlorobenzene	B23-Oc0025473	NCP	%	92				70-130	Pass	
Methoxychlor	B23-Oc0025473	NCP	%	106				70-130	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	B23-Oc0035223	NCP	%	97				75-125	Pass	
Cadmium	B23-Oc0035223	NCP	%	100				75-125	Pass	
Chromium	B23-Oc0035223	NCP	%	97				75-125	Pass	
Copper	B23-Oc0035223	NCP	%	95				75-125	Pass	
Lead	B23-Oc0035223	NCP	%	96				75-125	Pass	
Mercury	B23-Oc0035223	NCP	%	96				75-125	Pass	
Nickel	B23-Oc0035223	NCP	%	95				75-125	Pass	
Zinc	B23-Oc0035223	NCP	%	94				75-125	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	B23-Oc0038294	CP	mg/L	< 0.002	< 0.002	<1		30%	Pass	
4.4'-DDD	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1		30%	Pass	
4.4'-DDE	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1		30%	Pass	
4.4'-DDT	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1		30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
a-HCH	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	B23-Oc0038294	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	B23-Oc0038294	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Oc0030741	NCP	mg/L	0.018	0.017	3.0	30%	Pass	
Cadmium	B23-Oc0035222	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	B23-Oc0030741	NCP	mg/L	0.024	0.023	<1	30%	Pass	
Copper	B23-Oc0030741	NCP	mg/L	0.002	0.003	9.9	30%	Pass	
Lead	B23-Oc0030741	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	B23-Oc0030741	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	B23-Oc0030741	NCP	mg/L	0.028	0.028	1.4	30%	Pass	
Zinc	B23-Oc0030741	NCP	mg/L	0.099	0.10	4.9	30%	Pass	

Comments

Sample Integrity

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

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

☐ Sydney Laboratory
Unit F3 Bldg 16 Mars Road Lane Cove West NSW 2056
02 8900 6400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3802 4500 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9900 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8584 5000 EnviroSampleVIC@eurofins.com

Company: **TRUMP TRUCK**
 Address: **5/12 CARROLL ST BUNSBANK QLD 4000**
 Contact Name: **MURRAY PAGE**
 Phone No: **0406384451**
 Special Directions: **FAS PURCHASE (SEE PAGE 8)**
 Purchase Order: **-**
 Quote ID No: **-**

No	Client Sample ID	Sampled Date/Time	Matrix	Analyses
21	MS08	18/10/23	S	ASBESTOS PRESENCE
22	MS09			
23	MS10			
24	MS11			
25	MS12			
26	MS13			
27	MS14			
28	MS15			
29	MS16			
30	MS17	18/10/23	S	
Total Counts				

Project No	Project Name	Project Manager	EDD Format
278300	DNA COLONISATIVES	ISDAF	ES&A, EQUIS etc

Project Manager: **ISDAF**
 EDD Format: **ES&A, EQUIS etc**
 Project Name: **DNA COLONISATIVES**
 Project No: **278300**

Method of Shipment: ☐ Courier (#) ☒ Hand Delivered
 Laboratory Use Only: Received By: **M. PAGE**
 Date: **18/10/23**
 Signature: **[Signature]**

Containers: **500mL Plastic**
 250mL Plastic
 125mL Plastic
 200mL Amber Glass
 40mL VOA vial
 500mL PFAS Bottle
 Jar (Glass or HDPE)
 Other (Asbestos AS4054, WA Guidelines)

Required Turnaround Time (TAT): **18/10/23 3:47pm**
 Sample Comments: **21.3-14**
 Date/Time: **18/10/23**
 Collection: **21.3-14**
 Final Time: **18/10/23**



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 60 005 085 521

☐ Sydney Laboratory
Unit F3 Bldg F 16 Mars Road Lane Cove West NSW 2056
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory
Unit 1 21 Smallwood Place Mirania QLD 4172
07 3302 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2 81 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

☒ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company		THORNTON coffee		Project No	278300	Project Manager			Sampler(s)		
Address				Project Name	NSA 4000000000	EDD Format			Handed over by		
Contact Name				Where metals are requested, please specify "Total" or "Filtered". SUTITE code must be used to attract SUTITE pricing.							
Phone No											
Special Directions											
Purchase Order											
Quote ID No											
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)								
11	T304-W1	18/10/23	S								
12	" W2										
13	T305-W1										
14	" W2										
15	" B										
16	T306-B										
17	" W1										
18	" W2										
19	T307-B										
20	" W1	18/10/23	S								
Total Counts											

Method of Shipment	<input type="checkbox"/> Courier (#)	<input checked="" type="checkbox"/> Hand Delivered	<input type="checkbox"/> Postal	Name	Signature	Date	Date	Time	Temperature	Report No
Laboratory Use Only	Received By	Received By								

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



CHAIN OF CUSTODY RECORD

☐ Sydney Laboratory
Unit F3 Bld F 18 Mann Road Lane Cove West NSW 2056
02 9900 6400 EnviroSampleNSW@eurofins.com

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

☐ Perth Laboratory
Unit 2 81 Leach Highway Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 5564 5000 EnviroSampleVIC@eurofins.com

Company	MANNING COLONY		Project No	278300		Project Manager			Sample(s)		
Address			Project Name	DVA Greenwicks		EDD Format	ES/AL, EQ/LS etc		Handed over by		
Contact Name			Where metals are requested, please specify "Total" or "Filtered". SULTE code must be used to attach SULTE pricing.			Analyses			Containers Change container type & size if necessary.		
Phone No											
Special Directions											
Purchase Order									Email for Invoice		
Quote ID No									Email for Results		
No	Client Sample ID	Sampled Date/Time (if known)	Matrix Solid (S) Water (W)	SULTE code must be used to attach SULTE pricing.		Jar (Glass or HDPE)			Required Turnaround Time (TAT) Default will be 3 days, first local.		
21	TS07-W2	18/10/23	S	x		500mL Plastic			Overnight (reporting by 9am) <input type="checkbox"/>		
22	TS08-B			x		200mL Amber Glass			Same day <input type="checkbox"/>		
23	" W1			x		125mL Plastic			2 days <input type="checkbox"/>		
24	" W2			x		500mL Plastic			3 days <input type="checkbox"/>		
25	TS09-B			x		500mL Plastic			5 days (Standard) <input type="checkbox"/>		
26	" W1			x		500mL Plastic			Other <input type="checkbox"/>		
27	" W2			x		500mL Plastic			Sample Comments / Dangerous Goods Hazard Warning		
28	TS10-B			x		500mL Plastic					
29	" W1			x		500mL Plastic					
30	" W2	18/10/23	S	x		500mL Plastic					
Total Counts											
Method of Shipment				<input type="checkbox"/> Courier #		<input checked="" type="checkbox"/> Hand Delivered		Signature		Date	
Laboratory Use Only				Received By		Signature		Date		Time	
Received By				Signature		Date		Time		Report No	
Received By				Signature		Date		Time		1036638	

CHAIN OF CUSTODY RECORD

☐ Sydney Laboratory
Unit F3 Bldg F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
Unit 1 21 Smallwood Place Murrumbidgee QLD 4172
07 3802 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Montfery Road Dandenong South VIC 3175
03 5554 5000 EnviroSampleVIC@eurofins.com

Company: **TRANS-CO** **COFFIN**

Address:

Contact Name:

Phone No:

Special Directions:

Purchase Order:

Quote ID No:

No: **21**

Client Sample ID: **TS11-B**

Where matrix are requested, please specify "Total" or "Filtered".

Analyses:

Matrix:

Solid (S)

Water (W)

Sampled Date/Time: **18/10/23**

Time of day: **08:00**

Location: **8 MERRILLS**

No	Client Sample ID	Sampled Date/Time	Matrix	Analyses	Project No	Project Name	Project Manager	Container(s)	Required Turnaround Time (TAT)	Sample Comments
21	TS11-B	18/10/23	S					500mL Plastic	Overnight (reporting by 9am) ♦	
22	" W1							250mL Plastic	Same day ♦	
23	" W2							125mL Plastic	2 days ♦	
24	TS12-B							250mL Plastic	5 days (Standard)	
25	" W1							40mL VOA vial	Other ()	
26	" W2							250mL Amber Glass		
27	TS13-B							500mL PFA/ Bore		
28	" W1							Jar (Glass or HDPE)		
29	" W2							Other (Asbestos AS4584, WA Guidelines)		
30	TS14-B	18/10/23	S					500mL PFA/ Bore		
Total Counts										

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

Laboratory Use Only

Received By: **W. P. G. G.** Date: **18/10/23** Time: **15:40**

Report No: **10306638**

Sydney Laboratory
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2056
02 9900 8400 EnviroSampleNSW@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway
08 9251 9800 Envo

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9800 Email: SamplesWA@surfmec.com

☐ **Melbourne Laboratory**
6 Monterey Road Danvers, MA 01923

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175

Company TERRACON CORP		Project No 278300		Project Manager EDD Format ES&H EQUIS etc		Sampler(s)		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)	
Address		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
Contact Name		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
Phone No		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
Special Directions		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
Purchase Order		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
Quote ID No		Project Name DNA microscopes		EDD Format ES&H EQUIS etc		Handed over by		Email for Invoice		Email for Results		Required Turnaround Time (TAT) Default will be 5 days (incl. lab)			
No		Client Sample ID		Sampled Date/Time		Matrix		Analyses		Where matrix are requested, please specify "Total" or "Filtered"		SUIT code must be used to select SUITE pricing			
21		TS14-W1		18/10/23		S		X		X		X			
22		" W2		18/10/23		S		X		X		X			
23		TS15-B		18/10/23		S		X		X		X			
24		" W1		18/10/23		S		X		X		X			
25		" W2		18/10/23		S		X		X		X			
26		TS16-B		18/10/23		S		X		X		X			
27		" W1		18/10/23		S		X		X		X			
28		" W2		18/10/23		S		X		X		X			
29		TS25-B		18/10/23		S		X		X		X			
30		" W1		18/10/23		S		X		X		X			
Total Counts															
Method of Shipment		Courier (#)		Hand Delivered		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date		Date		Time	
Laboratory Use Only		Received By		Received By		Signature		Date		Date					



CHAIN OF CUSTODY RECORD

☐ Sydney Laboratory
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory
Unit 11 21 Smallwood Place Mirania QLD 4172
07 3902 4800 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

☐ Eurofins Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

Company	THURACON CONCRETE	Project No	278300	Project Manager	EDD Format ES,at, EC,atS etc	Sampler(s)	
Address	278300	Project Name	DNA GREENSBOURG	EDD Format	ES,at, EC,atS etc	Handed over by	
Contact Name						Email for Invoice	
Phone No						Email for Results	
Special Directions						Containers	Change container type & size if necessary.
Purchase Order						500mL Plastic	
Quote ID No						250mL Plastic	
						125mL Plastic	
						20mL Amber Glass	
						40mL VOA vial	
						500mL PFAS Bottle	
						Jar (Glass or HDPE)	
						Other (Asbestos AS4444, WA Guidelines)	
						Sample Comments	(Dangerous Goods Hazard Warning)
						Required Turnaround Time (TAT)	Default will be 5 days if not ticked.
						Overnight (reporting by 9am)	<input type="checkbox"/>
						Same day	<input type="checkbox"/>
						2 days	<input type="checkbox"/>
						3 days	<input type="checkbox"/>
						5 days (Standard)	<input checked="" type="checkbox"/>
						Other	<input type="checkbox"/>
						Surcharge will apply	
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						1 day	<input type="checkbox"/>
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						5 days (Standard)	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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 NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Michael Page
Project name:	DVA
Project ID:	278300
Turnaround time:	5 Day
Date/Time received	Oct 18, 2023 3:44 PM
Eurofins reference	1036638

Sample Information

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

Notes

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Michael Page - Michael.page@Coffey.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

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Grovedale
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Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

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Girraween
NSW 2145
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Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
1	HSB08	Oct 18, 2023		Soil	S23-Oc0045745	X		X	X	X	
2	HSB09	Oct 18, 2023		Soil	S23-Oc0045746	X		X	X	X	
3	HSB10	Oct 18, 2023		Soil	S23-Oc0045747	X		X	X	X	
4	HSB11	Oct 18, 2023		Soil	S23-Oc0045748	X		X	X	X	
5	HSB12	Oct 18, 2023		Soil	S23-Oc0045749	X		X	X	X	
6	HSB13	Oct 18, 2023		Soil	S23-Oc0045750	X		X	X	X	
7	HSB14	Oct 18, 2023		Soil	S23-Oc0045751	X		X	X	X	
8	HSB15	Oct 18, 2023		Soil	S23-Oc0045752	X		X	X	X	
9	HSB16	Oct 18, 2023		Soil	S23-Oc0045753	X		X	X	X	
10	HSB17	Oct 18, 2023		Soil	S23-Oc0045754	X		X	X	X	
11	TS01_B	Oct 18, 2023		Soil	S23-Oc0045755	X		X	X	X	
12	TS01_W1	Oct 18, 2023		Soil	S23-Oc0045756	X		X	X	X	
13	TS01_W2	Oct 18, 2023		Soil	S23-Oc0045757	X		X	X	X	



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217

						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
14	TS02_B	Oct 18, 2023		Soil	S23-Oc0045758	X	X	X	X	X	X
15	TS02_W1	Oct 18, 2023		Soil	S23-Oc0045759	X		X	X	X	
16	TS02_W2	Oct 18, 2023		Soil	S23-Oc0045760	X		X	X	X	
17	TS03_B	Oct 18, 2023		Soil	S23-Oc0045761	X		X	X	X	
18	TS03_W1	Oct 18, 2023		Soil	S23-Oc0045762	X		X	X	X	
19	TS03_W2	Oct 18, 2023		Soil	S23-Oc0045763	X		X	X	X	
20	TS04_B	Oct 18, 2023		Soil	S23-Oc0045764	X		X	X	X	
21	TS04_W1	Oct 18, 2023		Soil	S23-Oc0045765	X		X	X	X	
22	TS04_W2	Oct 18, 2023		Soil	S23-Oc0045766	X		X	X	X	
23	TS05_B	Oct 18, 2023		Soil	S23-Oc0045767	X		X	X	X	
24	TS05_W1	Oct 18, 2023		Soil	S23-Oc0045768	X		X	X	X	
25	TS05_W2	Oct 18, 2023		Soil	S23-Oc0045769	X		X	X	X	
26	TS06_B	Oct 18, 2023		Soil	S23-Oc0045770	X		X	X	X	
27	TS06_W1	Oct 18, 2023		Soil	S23-Oc0045771	X		X	X	X	
28	TS06_W2	Oct 18, 2023		Soil	S23-Oc0045772	X		X	X	X	
29	TS07_B	Oct 18, 2023		Soil	S23-Oc0045773	X		X	X	X	



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Site# 25466

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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Asbestos - WA guidelines
HOLD
Organochlorine Pesticides
Metals M8
Moisture Set
BTEXN and Volatile TRH

Sydney Laboratory - NATA # 1261 Site # 18217

30	TS07_W1	Oct 18, 2023		Soil	S23-Oc0045774	X	X	X	X	X	
31	TS07_W2	Oct 18, 2023		Soil	S23-Oc0045775	X		X	X	X	
32	TS08_B	Oct 18, 2023		Soil	S23-Oc0045776	X		X	X	X	
33	TS08_W1	Oct 18, 2023		Soil	S23-Oc0045777	X		X	X	X	
34	TS08_W2	Oct 18, 2023		Soil	S23-Oc0045778	X		X	X	X	
35	TS09_B	Oct 18, 2023		Soil	S23-Oc0045779	X		X	X	X	
36	TS09_W1	Oct 18, 2023		Soil	S23-Oc0045780	X		X	X	X	
37	TS09_W2	Oct 18, 2023		Soil	S23-Oc0045781	X		X	X	X	
38	TS10_B	Oct 18, 2023		Soil	S23-Oc0045782	X		X	X	X	
39	TS10_W1	Oct 18, 2023		Soil	S23-Oc0045783	X		X	X	X	
40	TS10_W2	Oct 18, 2023		Soil	S23-Oc0045784	X		X	X	X	
41	TS11_B	Oct 18, 2023		Soil	S23-Oc0045785	X		X	X	X	
42	TS11_W1	Oct 18, 2023		Soil	S23-Oc0045786	X		X	X	X	
43	TS11_W2	Oct 18, 2023		Soil	S23-Oc0045787	X		X	X	X	
44	TS12_B	Oct 18, 2023		Soil	S23-Oc0045788	X		X	X	X	
45	TS12_W1	Oct 18, 2023		Soil	S23-Oc0045789	X		X	X	X	



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217

						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
46	TS12_W2	Oct 18, 2023		Soil	S23-Oc0045790	X	X	X	X	X	X
47	TS13_B	Oct 18, 2023		Soil	S23-Oc0045791	X		X	X	X	
48	TS13_W1	Oct 18, 2023		Soil	S23-Oc0045792	X		X	X	X	
49	TS13_W2	Oct 18, 2023		Soil	S23-Oc0045793	X		X	X	X	
50	TS14_B	Oct 18, 2023		Soil	S23-Oc0045794	X		X	X	X	
51	TS14_W1	Oct 18, 2023		Soil	S23-Oc0045795	X		X	X	X	
52	TS14_W2	Oct 18, 2023		Soil	S23-Oc0045796	X		X	X	X	
53	TS15_B	Oct 18, 2023		Soil	S23-Oc0045797	X		X	X	X	
54	TS15_W1	Oct 18, 2023		Soil	S23-Oc0045798	X		X	X	X	
55	TS15_W2	Oct 18, 2023		Soil	S23-Oc0045799	X		X	X	X	
56	TS16_B	Oct 18, 2023		Soil	S23-Oc0045800	X		X	X	X	
57	TS16_W1	Oct 18, 2023		Soil	S23-Oc0045801	X		X	X	X	
58	TS16_W2	Oct 18, 2023		Soil	S23-Oc0045802	X		X	X	X	
59	TS25_B	Oct 18, 2023		Soil	S23-Oc0045803	X		X	X	X	
60	TS25_W1	Oct 18, 2023		Soil	S23-Oc0045804	X		X	X	X	
61	TS25_W2	Oct 18, 2023		Soil	S23-Oc0045805	X		X	X	X	



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217

						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
62	TS26_B	Oct 18, 2023		Soil	S23-Oc0045806	X	X	X	X	X	X
63	TS26_W1	Oct 18, 2023		Soil	S23-Oc0045807	X		X	X	X	
64	TS26_W2	Oct 18, 2023		Soil	S23-Oc0045808	X		X	X	X	
65	TS27_B	Oct 18, 2023		Soil	S23-Oc0045809	X		X	X	X	
66	TS27_W1	Oct 18, 2023		Soil	S23-Oc0045810	X		X	X	X	
67	TS27_W2	Oct 18, 2023		Soil	S23-Oc0045811	X		X	X	X	
68	DW-B1	Oct 18, 2023		Soil	S23-Oc0045812	X		X	X	X	
69	DW-B2	Oct 18, 2023		Soil	S23-Oc0045813	X		X	X	X	
70	DW-B3	Oct 18, 2023		Soil	S23-Oc0045814	X		X	X	X	
71	DW-B4	Oct 18, 2023		Soil	S23-Oc0045815	X		X	X	X	
72	QC101	Oct 18, 2023		Soil	S23-Oc0045816			X	X	X	
73	QC103	Oct 18, 2023		Soil	S23-Oc0045817			X	X	X	
74	TRIP BLANK	Oct 18, 2023		Trip Blank (solid)	S23-Oc0045818						X
75	QC105	Oct 18, 2023		Water	S23-Oc0045819		X				
Test Counts						72	1	73	73	73	1

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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NATA Accredited

Accreditation Number 1261

Site Number 18217

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

Attention: Michael Page
Report 1036638-AID
Project Name DVA
Project ID 278300
Received Date Oct 18, 2023
Date Reported Oct 26, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DVA
Project ID 278300
Date Sampled Oct 18, 2023
Report 1036638-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSB08	23-Oc0045745	Oct 18, 2023	Approximate Sample 453g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB09	23-Oc0045746	Oct 18, 2023	Approximate Sample 359g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB10	23-Oc0045747	Oct 18, 2023	Approximate Sample 526g Sample consisted of: Brown fine-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.071g* Estimated asbestos content in AF = 0.064g* Total estimated asbestos concentration in AF = 0.012% w/w* Organic fibre detected. No trace asbestos detected.
HSB11	23-Oc0045748	Oct 18, 2023	Approximate Sample 446g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.080g* Estimated asbestos content in AF = 0.072g* Total estimated asbestos concentration in AF = 0.016% w/w* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
HSB12	23-Oc0045749	Oct 18, 2023	Approximate Sample 548g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.029g* Estimated asbestos content in AF = 0.026g* Total estimated asbestos concentration in AF = 0.0047% w/w* Organic fibre detected. No trace asbestos detected.
HSB13	23-Oc0045750	Oct 18, 2023	Approximate Sample 535g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB14	23-Oc0045751	Oct 18, 2023	Approximate Sample 530g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB15	23-Oc0045752	Oct 18, 2023	Approximate Sample 663g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB16	23-Oc0045753	Oct 18, 2023	Approximate Sample 617g Sample consisted of: Brown fine-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.027g* Estimated asbestos content in AF = 0.024g* Total estimated asbestos concentration in AF = 0.0039% w/w* Organic fibre detected. No trace asbestos detected.
HSB17	23-Oc0045754	Oct 18, 2023	Approximate Sample 620g Sample consisted of: Brown fine-grained clayey soil, glass, organic debris and rocks	FA: Chrysotile asbestos detected in weathered fibre plaster material. Approximate raw weight of FA = 0.023g Estimated asbestos content in FA = 0.0092g* Total estimated asbestos concentration in FA = 0.0015% w/w* Organic fibre detected. No trace asbestos detected.
TS01_B	23-Oc0045755	Oct 18, 2023	Approximate Sample 466g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS01_W1	23-Oc0045756	Oct 18, 2023	Approximate Sample 509g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS01_W2	23-Oc0045757	Oct 18, 2023	Approximate Sample 442g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TS02_B	23-Oc0045758	Oct 18, 2023	Approximate Sample 392g Sample consisted of: Brown fine-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.013g* Estimated asbestos content in AF = 0.011g* Total estimated asbestos concentration in AF = 0.0029% w/w* Organic fibre detected. No trace asbestos detected.
TS02_W1	23-Oc0045759	Oct 18, 2023	Approximate Sample 400g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS02_W2	23-Oc0045760	Oct 18, 2023	Approximate Sample 373g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS03_B	23-Oc0045761	Oct 18, 2023	Approximate Sample 549g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS03_W1	23-Oc0045762	Oct 18, 2023	Approximate Sample 514g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS03_W2	23-Oc0045763	Oct 18, 2023	Approximate Sample 534g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS04_B	23-Oc0045764	Oct 18, 2023	Approximate Sample 507g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS04_W1	23-Oc0045765	Oct 18, 2023	Approximate Sample 440g Sample consisted of: Brown fine-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.0056g* Estimated asbestos content in AF = 0.0050g* Total estimated asbestos concentration in AF = 0.0011% w/w* Organic fibre detected. No trace asbestos detected.
TS04_W2	23-Oc0045766	Oct 18, 2023	Approximate Sample 507g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TS05_B	23-Oc0045767	Oct 18, 2023	Approximate Sample 581g Sample consisted of: Brown fine-grained clayey soil and rocks	FA: Chrysotile asbestos detected in fibre plaster material. Approximate raw weight of FA = 0.0038g Estimated asbestos content in FA = 0.0015g* Total estimated asbestos concentration in FA = 0.00026% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS05_W1	23-Oc0045768	Oct 18, 2023	Approximate Sample 529g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS05_W2	23-Oc0045769	Oct 18, 2023	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS06_B	23-Oc0045770	Oct 18, 2023	Approximate Sample 565g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS06_W1	23-Oc0045771	Oct 18, 2023	Approximate Sample 557g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS06_W2	23-Oc0045772	Oct 18, 2023	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS07_B	23-Oc0045773	Oct 18, 2023	Approximate Sample 567g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS07_W1	23-Oc0045774	Oct 18, 2023	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS07_W2	23-Oc0045775	Oct 18, 2023	Approximate Sample 501g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS08_B	23-Oc0045776	Oct 18, 2023	Approximate Sample 606g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS08_W1	23-Oc0045777	Oct 18, 2023	Approximate Sample 461g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TS08_W2	23-Oc0045778	Oct 18, 2023	Approximate Sample 467g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS09_B	23-Oc0045779	Oct 18, 2023	Approximate Sample 408g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS09_W1	23-Oc0045780	Oct 18, 2023	Approximate Sample 502g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS09_W2	23-Oc0045781	Oct 18, 2023	Approximate Sample 588g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS10_B	23-Oc0045782	Oct 18, 2023	Approximate Sample 515g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS10_W1	23-Oc0045783	Oct 18, 2023	Approximate Sample 580g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS10_W2	23-Oc0045784	Oct 18, 2023	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS11_B	23-Oc0045785	Oct 18, 2023	Approximate Sample 601g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS11_W1	23-Oc0045786	Oct 18, 2023	Approximate Sample 505g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS11_W2	23-Oc0045787	Oct 18, 2023	Approximate Sample 597g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS12_B	23-Oc0045788	Oct 18, 2023	Approximate Sample 567g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS12_W1	23-Oc0045789	Oct 18, 2023	Approximate Sample 413g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS12_W2	23-Oc0045790	Oct 18, 2023	Approximate Sample 589g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TS13_B	23-Oc0045791	Oct 18, 2023	Approximate Sample 436g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS13_W1	23-Oc0045792	Oct 18, 2023	Approximate Sample 533g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS13_W2	23-Oc0045793	Oct 18, 2023	Approximate Sample 425g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS14_B	23-Oc0045794	Oct 18, 2023	Approximate Sample 587g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS14_W1	23-Oc0045795	Oct 18, 2023	Approximate Sample 441g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS14_W2	23-Oc0045796	Oct 18, 2023	Approximate Sample 521g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS15_B	23-Oc0045797	Oct 18, 2023	Approximate Sample 319g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS15_W1	23-Oc0045798	Oct 18, 2023	Approximate Sample 545g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS15_W2	23-Oc0045799	Oct 18, 2023	Approximate Sample 442g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS16_B	23-Oc0045800	Oct 18, 2023	Approximate Sample 548g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS16_W1	23-Oc0045801	Oct 18, 2023	Approximate Sample 502g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS16_W2	23-Oc0045802	Oct 18, 2023	Approximate Sample 506g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS25_B	23-Oc0045803	Oct 18, 2023	Approximate Sample 535g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TS25_W1	23-Oc0045804	Oct 18, 2023	Approximate Sample 545g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS25_W2	23-Oc0045805	Oct 18, 2023	Approximate Sample 560g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS26_B	23-Oc0045806	Oct 18, 2023	Approximate Sample 383g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS26_W1	23-Oc0045807	Oct 18, 2023	Approximate Sample 573g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS26_W2	23-Oc0045808	Oct 18, 2023	Approximate Sample 489g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS27_B	23-Oc0045809	Oct 18, 2023	Approximate Sample 627g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS27_W1	23-Oc0045810	Oct 18, 2023	Approximate Sample 546g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TS27_W2	23-Oc0045811	Oct 18, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DW-B1	23-Oc0045812	Oct 18, 2023	Approximate Sample 490g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DW-B2	23-Oc0045813	Oct 18, 2023	Approximate Sample 676g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DW-B3	23-Oc0045814	Oct 18, 2023	Approximate Sample 615g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
DW-B4	23-Oc0045815	Oct 18, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Oct 24, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	HSB08	Oct 18, 2023		Soil	S23-Oc0045745	X		X	X	X	
2	HSB09	Oct 18, 2023		Soil	S23-Oc0045746	X		X	X	X	
3	HSB10	Oct 18, 2023		Soil	S23-Oc0045747	X		X	X	X	
4	HSB11	Oct 18, 2023		Soil	S23-Oc0045748	X		X	X	X	
5	HSB12	Oct 18, 2023		Soil	S23-Oc0045749	X		X	X	X	
6	HSB13	Oct 18, 2023		Soil	S23-Oc0045750	X		X	X	X	
7	HSB14	Oct 18, 2023		Soil	S23-Oc0045751	X		X	X	X	
8	HSB15	Oct 18, 2023		Soil	S23-Oc0045752	X		X	X	X	
9	HSB16	Oct 18, 2023		Soil	S23-Oc0045753	X		X	X	X	
10	HSB17	Oct 18, 2023		Soil	S23-Oc0045754	X		X	X	X	
11	TS01_B	Oct 18, 2023		Soil	S23-Oc0045755	X		X	X	X	
12	TS01_W1	Oct 18, 2023		Soil	S23-Oc0045756	X		X	X	X	
13	TS01_W2	Oct 18, 2023		Soil	S23-Oc0045757	X		X	X	X	

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Order No.:
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Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
14	TS02_B	Oct 18, 2023		Soil	S23-Oc0045758	X		X	X	X	
15	TS02_W1	Oct 18, 2023		Soil	S23-Oc0045759	X		X	X	X	
16	TS02_W2	Oct 18, 2023		Soil	S23-Oc0045760	X		X	X	X	
17	TS03_B	Oct 18, 2023		Soil	S23-Oc0045761	X		X	X	X	
18	TS03_W1	Oct 18, 2023		Soil	S23-Oc0045762	X		X	X	X	
19	TS03_W2	Oct 18, 2023		Soil	S23-Oc0045763	X		X	X	X	
20	TS04_B	Oct 18, 2023		Soil	S23-Oc0045764	X		X	X	X	
21	TS04_W1	Oct 18, 2023		Soil	S23-Oc0045765	X		X	X	X	
22	TS04_W2	Oct 18, 2023		Soil	S23-Oc0045766	X		X	X	X	
23	TS05_B	Oct 18, 2023		Soil	S23-Oc0045767	X		X	X	X	
24	TS05_W1	Oct 18, 2023		Soil	S23-Oc0045768	X		X	X	X	
25	TS05_W2	Oct 18, 2023		Soil	S23-Oc0045769	X		X	X	X	
26	TS06_B	Oct 18, 2023		Soil	S23-Oc0045770	X		X	X	X	
27	TS06_W1	Oct 18, 2023		Soil	S23-Oc0045771	X		X	X	X	
28	TS06_W2	Oct 18, 2023		Soil	S23-Oc0045772	X		X	X	X	
29	TS07_B	Oct 18, 2023		Soil	S23-Oc0045773	X		X	X	X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
30	TS07_W1	Oct 18, 2023		Soil	S23-Oc0045774	X		X	X	X	
31	TS07_W2	Oct 18, 2023		Soil	S23-Oc0045775	X		X	X	X	
32	TS08_B	Oct 18, 2023		Soil	S23-Oc0045776	X		X	X	X	
33	TS08_W1	Oct 18, 2023		Soil	S23-Oc0045777	X		X	X	X	
34	TS08_W2	Oct 18, 2023		Soil	S23-Oc0045778	X		X	X	X	
35	TS09_B	Oct 18, 2023		Soil	S23-Oc0045779	X		X	X	X	
36	TS09_W1	Oct 18, 2023		Soil	S23-Oc0045780	X		X	X	X	
37	TS09_W2	Oct 18, 2023		Soil	S23-Oc0045781	X		X	X	X	
38	TS10_B	Oct 18, 2023		Soil	S23-Oc0045782	X		X	X	X	
39	TS10_W1	Oct 18, 2023		Soil	S23-Oc0045783	X		X	X	X	
40	TS10_W2	Oct 18, 2023		Soil	S23-Oc0045784	X		X	X	X	
41	TS11_B	Oct 18, 2023		Soil	S23-Oc0045785	X		X	X	X	
42	TS11_W1	Oct 18, 2023		Soil	S23-Oc0045786	X		X	X	X	
43	TS11_W2	Oct 18, 2023		Soil	S23-Oc0045787	X		X	X	X	
44	TS12_B	Oct 18, 2023		Soil	S23-Oc0045788	X		X	X	X	
45	TS12_W1	Oct 18, 2023		Soil	S23-Oc0045789	X		X	X	X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
46	TS12_W2	Oct 18, 2023		Soil	S23-Oc0045790	X		X	X	X	
47	TS13_B	Oct 18, 2023		Soil	S23-Oc0045791	X		X	X	X	
48	TS13_W1	Oct 18, 2023		Soil	S23-Oc0045792	X		X	X	X	
49	TS13_W2	Oct 18, 2023		Soil	S23-Oc0045793	X		X	X	X	
50	TS14_B	Oct 18, 2023		Soil	S23-Oc0045794	X		X	X	X	
51	TS14_W1	Oct 18, 2023		Soil	S23-Oc0045795	X		X	X	X	
52	TS14_W2	Oct 18, 2023		Soil	S23-Oc0045796	X		X	X	X	
53	TS15_B	Oct 18, 2023		Soil	S23-Oc0045797	X		X	X	X	
54	TS15_W1	Oct 18, 2023		Soil	S23-Oc0045798	X		X	X	X	
55	TS15_W2	Oct 18, 2023		Soil	S23-Oc0045799	X		X	X	X	
56	TS16_B	Oct 18, 2023		Soil	S23-Oc0045800	X		X	X	X	
57	TS16_W1	Oct 18, 2023		Soil	S23-Oc0045801	X		X	X	X	
58	TS16_W2	Oct 18, 2023		Soil	S23-Oc0045802	X		X	X	X	
59	TS25_B	Oct 18, 2023		Soil	S23-Oc0045803	X		X	X	X	
60	TS25_W1	Oct 18, 2023		Soil	S23-Oc0045804	X		X	X	X	
61	TS25_W2	Oct 18, 2023		Soil	S23-Oc0045805	X		X	X	X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
62	TS26_B	Oct 18, 2023		Soil	S23-Oc0045806	X		X	X	X	
63	TS26_W1	Oct 18, 2023		Soil	S23-Oc0045807	X		X	X	X	
64	TS26_W2	Oct 18, 2023		Soil	S23-Oc0045808	X		X	X	X	
65	TS27_B	Oct 18, 2023		Soil	S23-Oc0045809	X		X	X	X	
66	TS27_W1	Oct 18, 2023		Soil	S23-Oc0045810	X		X	X	X	
67	TS27_W2	Oct 18, 2023		Soil	S23-Oc0045811	X		X	X	X	
68	DW-B1	Oct 18, 2023		Soil	S23-Oc0045812	X		X	X	X	
69	DW-B2	Oct 18, 2023		Soil	S23-Oc0045813	X		X	X	X	
70	DW-B3	Oct 18, 2023		Soil	S23-Oc0045814	X		X	X	X	
71	DW-B4	Oct 18, 2023		Soil	S23-Oc0045815	X		X	X	X	
72	QC101	Oct 18, 2023		Soil	S23-Oc0045816			X	X	X	
73	QC103	Oct 18, 2023		Soil	S23-Oc0045817			X	X	X	
74	TRIP BLANK	Oct 18, 2023		Trip Blank (solid)	S23-Oc0045818						X
75	QC105	Oct 18, 2023		Water	S23-Oc0045819		X				
Test Counts						71	1	73	73	73	1

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Oc0045745, 23-Oc0045746, 23-Oc0045748, 23-Oc0045755, 23-Oc0045757 to 23-Oc0045760, 23-Oc0045765, 23-Oc0045793, 23-Oc0045799, 23-Oc0045777, 23-Oc0045795, 23-Oc0045797, 23-Oc0045789, 23-Oc0045778, 23-Oc0045779, 23-Oc0045812, 23-Oc0045806, 23-Oc0045808, 23-Oc0045791, : Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos

Authorised by:

Sayeed Abu Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 18217

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 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: **Michael Page**

Report **1036638-S**

Project name

DVA

Project ID

278300

Received Date

Oct 18, 2023

Client Sample ID			HSB08	HSB09	G01 HSB10	G01 HSB11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045745	S23- Oc0045746	S23- Oc0045747	S23- Oc0045748
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	1.0	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	1	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	1	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 1
Dibutylchloredate (surr.)	1	%	99	124	INT	89
Tetrachloro-m-xylene (surr.)	1	%	97	99	136	105
Heavy Metals						
Arsenic	2	mg/kg	18	80	30	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	36	48	69	45
Copper	5	mg/kg	13	26	27	19
Lead	5	mg/kg	57	170	100	120
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	16	22	40	23
Zinc	5	mg/kg	150	480	380	280

Client Sample ID			HSB08	HSB09	G01 HSB10	G01 HSB11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045745	S23- Oc0045746	S23- Oc0045747	S23- Oc0045748
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	2.4	2.0	2.8	2.1

Client Sample ID			G01 HSB12	G01 HSB13	HSB14	HSB15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045749	S23- Oc0045750	S23- Oc0045751	S23- Oc0045752
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.5	0.08	0.08
Endosulfan I	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 10	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5	0.08	0.08
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	133	68	98	101
Tetrachloro-m-xylene (surr.)	1	%	95	98	111	100
Heavy Metals						
Arsenic	2	mg/kg	21	10	4.5	22
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	120	79	43	28
Copper	5	mg/kg	19	19	7.6	9.0
Lead	5	mg/kg	66	50	6.8	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	35	21	11	6.8
Zinc	5	mg/kg	180	140	18	77
Sample Properties						
% Moisture	1	%	2.2	2.5	2.0	2.2

Client Sample ID			G01 HSB16	HSB17	TS01_B	TS01_W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045753	S23- Oc0045754	S23- Oc0045755	S23- Oc0045756
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	0.24	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	0.24	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	0.24	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	140	114	136	84
Tetrachloro-m-xylene (surr.)	1	%	108	101	126	98
Heavy Metals						
Arsenic	2	mg/kg	16	12	15	4.6
Cadmium	0.4	mg/kg	< 0.4	0.4	< 0.4	< 0.4
Chromium	5	mg/kg	80	48	86	96
Copper	5	mg/kg	16	33	23	14
Lead	5	mg/kg	31	130	61	19
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	22	19	30	19
Zinc	5	mg/kg	140	310	130	45
Sample Properties						
% Moisture	1	%	3.1	3.6	3.8	2.2

Client Sample ID			TS01_W2	TS02_B	TS02_W1	TS02_W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045757	S23- Oc0045758	S23- Oc0045759	S23- Oc0045760
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.06
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	1.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	1.56
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	1.56
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	97	121	104	115
Tetrachloro-m-xylene (surr.)	1	%	90	99	89	86
Heavy Metals						
Arsenic	2	mg/kg	7.0	9.3	5.6	7.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	110	71	81	100
Copper	5	mg/kg	22	20	10	20
Lead	5	mg/kg	< 5	26	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	52	21	18	48
Zinc	5	mg/kg	35	68	23	30
Sample Properties						
% Moisture	1	%	5.8	5.7	4.5	9.6

Client Sample ID			TS03_B	TS03_W1	TS03_W2	TS04_B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045761	S23- Oc0045762	S23- Oc0045763	S23- Oc0045764
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	122	133	111	108
Tetrachloro-m-xylene (surr.)	1	%	99	95	90	98
Heavy Metals						
Arsenic	2	mg/kg	5.6	5.1	9.1	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	78	79	120	120
Copper	5	mg/kg	17	12	23	24
Lead	5	mg/kg	< 5	< 5	6.4	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	24	44	49
Zinc	5	mg/kg	23	27	67	30
Sample Properties						
% Moisture	1	%	12	7.2	8.6	10.0

Client Sample ID			TS04_W1	TS04_W2	TS05_B	TS05_W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045765	S23- Oc0045766	S23- Oc0045767	S23- Oc0045768
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	1.6	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	3.0	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	0.06	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	4.6	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	4.67	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	103	104	93	84
Tetrachloro-m-xylene (surr.)	1	%	93	91	88	92
Heavy Metals						
Arsenic	2	mg/kg	4.4	14	10	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	45	130	95	110
Copper	5	mg/kg	6.6	11	19	13
Lead	5	mg/kg	< 5	13	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	26	29	24
Zinc	5	mg/kg	18	47	26	24
Sample Properties						
% Moisture	1	%	7.6	1.3	7.6	8.9

Client Sample ID			TS05_W2	TS06_B	TS06_W1	TS06_W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045769	S23- Oc0045770	S23- Oc0045771	S23- Oc0045772
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	105	105	99	95
Tetrachloro-m-xylene (surr.)	1	%	105	108	105	102
Heavy Metals						
Arsenic	2	mg/kg	11	8.6	9.1	7.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	96	79	92	68
Copper	5	mg/kg	17	13	12	11
Lead	5	mg/kg	25	7.8	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	28	22	19	17
Zinc	5	mg/kg	43	24	14	12
Sample Properties						
% Moisture	1	%	4.1	5.9	10.0	8.5

Client Sample ID			TS07_B	TS07_W1	TS07_W2	TS08_B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045773	S23- Oc0045774	S23- Oc0045775	S23- Oc0045776
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	111	117	107
Tetrachloro-m-xylene (surr.)	1	%	104	106	108	92
Heavy Metals						
Arsenic	2	mg/kg	3.2	6.3	6.9	3.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	47	57	67	55
Copper	5	mg/kg	12	13	15	13
Lead	5	mg/kg	< 5	23	5.5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	27	25	29	27
Zinc	5	mg/kg	15	48	16	19
Sample Properties						
% Moisture	1	%	10	3.2	4.3	7.9

Client Sample ID			TS08_W1	TS08_W2	TS09_B	TS09_W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045777	S23- Oc0045778	S23- Oc0045779	S23- Oc0045780
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	126	90	126	117
Tetrachloro-m-xylene (surr.)	1	%	94	104	109	99
Heavy Metals						
Arsenic	2	mg/kg	18	5.4	2.6	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	100	92	85	140
Copper	5	mg/kg	25	16	18	27
Lead	5	mg/kg	7.0	5.7	< 5	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	74	38	40	57
Zinc	5	mg/kg	81	24	24	76
Sample Properties						
% Moisture	1	%	5.1	9.4	21	6.1

Client Sample ID			TS09_W2	TS10_B	TS10_W1	TS10_W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045781	S23- Oc0045782	S23- Oc0045783	S23- Oc0045784
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.14
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.14
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.14
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	101	105	97	99
Tetrachloro-m-xylene (surr.)	1	%	91	94	95	88
Heavy Metals						
Arsenic	2	mg/kg	3.6	4.9	5.2	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	110	73	100	90
Copper	5	mg/kg	19	17	21	21
Lead	5	mg/kg	< 5	< 5	< 5	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	57	37	50	39
Zinc	5	mg/kg	20	30	31	63
Sample Properties						
% Moisture	1	%	19	10	7.4	6.7

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	TS11_B Soil S23- Oc0045785 Oct 18, 2023	TS11_W1 Soil S23- Oc0045786 Oct 18, 2023	TS11_W2 Soil S23- Oc0045787 Oct 18, 2023	TS12_B Soil S23- Oc0045788 Oct 18, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	0.35	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.35	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.35	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	113	133	139	122
Tetrachloro-m-xylene (surr.)	1	%	92	97	97	84
Heavy Metals						
Arsenic	2	mg/kg	6.4	6.7	5.5	8.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	89	120	99	120
Copper	5	mg/kg	21	20	23	24
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	43	35	34	55
Zinc	5	mg/kg	35	27	30	40
Sample Properties						
% Moisture	1	%	8.8	6.6	8.4	5.9

Client Sample ID			TS12_W1	TS12_W2	TS13_B	TS13_W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045789	S23- Oc0045790	S23- Oc0045791	S23- Oc0045792
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	0.5	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.5	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.5	< 0.1
Dibutylchloredate (surr.)	1	%	120	68	131	80
Tetrachloro-m-xylene (surr.)	1	%	92	97	96	102
Heavy Metals						
Arsenic	2	mg/kg	6.2	6.7	8.4	8.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	110	130	120	130
Copper	5	mg/kg	21	22	22	24
Lead	5	mg/kg	< 5	< 5	59	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	48	57	45	54
Zinc	5	mg/kg	31	30	70	36
Sample Properties						
% Moisture	1	%	7.8	6.6	5.4	6.4

Client Sample ID			TS13_W2	TS14_B	TS14_W1	TS14_W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045793	S23- Oc0045794	S23- Oc0045795	S23- Oc0045796
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	115	87	63	62
Tetrachloro-m-xylene (surr.)	1	%	87	120	100	82
Heavy Metals						
Arsenic	2	mg/kg	8.6	8.2	7.3	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	150	130	150	160
Copper	5	mg/kg	25	23	21	21
Lead	5	mg/kg	5.1	< 5	< 5	7.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	55	50	50	49
Zinc	5	mg/kg	36	33	28	32
Sample Properties						
% Moisture	1	%	5.8	9.1	4.3	4.3

Client Sample ID			TS15_B	TS15_W1	TS15_W2	TS16_B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045797	S23- Oc0045798	S23- Oc0045799	S23- Oc0045800
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	84	59	57	75
Tetrachloro-m-xylene (surr.)	1	%	75	76	80	88
Heavy Metals						
Arsenic	2	mg/kg	13	8.8	12	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	170	82	130	150
Copper	5	mg/kg	23	12	22	24
Lead	5	mg/kg	5.1	27	5.7	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	49	22	48	57
Zinc	5	mg/kg	35	48	36	36
Sample Properties						
% Moisture	1	%	9.0	11	7.0	5.5

Client Sample ID			TS16_W1	TS16_W2	TS25_B	TS25_W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045801	S23- Oc0045802	S23- Oc0045803	S23- Oc0045804
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	101	72	77	81
Tetrachloro-m-xylene (surr.)	1	%	107	95	100	98
Heavy Metals						
Arsenic	2	mg/kg	11	32	2.4	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	150	140	68	96
Copper	5	mg/kg	24	16	9.6	16
Lead	5	mg/kg	< 5	21	5.2	5.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	59	40	26	46
Zinc	5	mg/kg	32	110	16	25
Sample Properties						
% Moisture	1	%	7.2	8.1	14	17

Client Sample ID			TS25_W2	TS26_B	TS26_W1	TS26_W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045805	S23- Oc0045806	S23- Oc0045807	S23- Oc0045808
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	12	< 0.1	7.5
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	0.26	< 0.05	0.13
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	0.08	< 0.05	0.07
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.06
Heptachlor epoxide	0.05	mg/kg	< 0.05	0.05	< 0.05	0.08
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	12.39	< 0.1	7.84
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	12.39	< 0.1	7.84
Dibutylchlorendate (surr.)	1	%	99	83	94	88
Tetrachloro-m-xylene (surr.)	1	%	113	107	116	102
Heavy Metals						
Arsenic	2	mg/kg	2.6	3.5	2.4	4.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	89	90	63	39
Copper	5	mg/kg	8.6	15	5.5	9.4
Lead	5	mg/kg	< 5	6.9	< 5	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	40	18	19
Zinc	5	mg/kg	14	36	14	50
Sample Properties						
% Moisture	1	%	15	24	9.2	11

Client Sample ID			TS27_B	TS27_W1	TS27_W2	DW-B1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045809	S23- Oc0045810	S23- Oc0045811	S23- Oc0045812
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.3	< 0.1	1.3	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.3	< 0.1	1.3	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.3	< 0.1	1.3	< 0.1
Dibutylchlorendate (surr.)	1	%	117	123	120	113
Tetrachloro-m-xylene (surr.)	1	%	106	97	88	119
Heavy Metals						
Arsenic	2	mg/kg	4.0	3.4	3.3	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	100	97	96	55
Copper	5	mg/kg	18	15	14	7.9
Lead	5	mg/kg	< 5	5.2	< 5	5.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	43	34	29	21
Zinc	5	mg/kg	25	20	20	17
Sample Properties						
% Moisture	1	%	19	14	19	20

Client Sample ID			DW-B2	DW-B3	DW-B4	QC101
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Oc0045813	S23- Oc0045814	S23- Oc0045815	S23- Oc0045816
Date Sampled			Oct 18, 2023	Oct 18, 2023	Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	99	116	106	126
Tetrachloro-m-xylene (surr.)	1	%	121	110	108	107
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.0	3.7	6.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	77	91	69	97
Copper	5	mg/kg	6.9	12	10	20
Lead	5	mg/kg	< 5	5.1	5.1	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	33	22	33
Zinc	5	mg/kg	15	20	15	31
Sample Properties						
% Moisture	1	%	14	21	17	10

Client Sample ID			QC103	TRIP BLANK
Sample Matrix			Soil	Trip Blank (solid)
Eurofins Sample No.			S23- Oc0045817	S23- Oc0045818
Date Sampled			Oct 18, 2023	Oct 18, 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	-
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	-
Dibutylchloroendate (surr.)	1	%	130	-
Tetrachloro-m-xylene (surr.)	1	%	113	-
Heavy Metals				
Arsenic	2	mg/kg	6.1	-
Cadmium	0.4	mg/kg	< 0.4	-
Chromium	5	mg/kg	62	-
Copper	5	mg/kg	11	-
Lead	5	mg/kg	10	-
Mercury	0.1	mg/kg	< 0.1	-
Nickel	5	mg/kg	20	-
Zinc	5	mg/kg	30	-
Sample Properties				
% Moisture	1	%	5.7	-
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	-	< 20
TRH C6-C10	20	mg/kg	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20

Client Sample ID			QC103	TRIP BLANK
Sample Matrix			Soil	Trip Blank (solid)
Eurofins Sample No.			S23- Oc0045817	S23- Oc0045818
Date Sampled			Oct 18, 2023	Oct 18, 2023
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.1	mg/kg	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	101

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	Sydney	Oct 21, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Oct 21, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Oct 20, 2023	14 Days
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 24, 2023	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 24, 2023	14 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Sydney	Oct 21, 2023	14 Days

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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA
Project ID: 278300

Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	HSB08	Oct 18, 2023		Soil	S23-Oc0045745	X		X	X	X	
2	HSB09	Oct 18, 2023		Soil	S23-Oc0045746	X		X	X	X	
3	HSB10	Oct 18, 2023		Soil	S23-Oc0045747	X		X	X	X	
4	HSB11	Oct 18, 2023		Soil	S23-Oc0045748	X		X	X	X	
5	HSB12	Oct 18, 2023		Soil	S23-Oc0045749	X		X	X	X	
6	HSB13	Oct 18, 2023		Soil	S23-Oc0045750	X		X	X	X	
7	HSB14	Oct 18, 2023		Soil	S23-Oc0045751	X		X	X	X	
8	HSB15	Oct 18, 2023		Soil	S23-Oc0045752	X		X	X	X	
9	HSB16	Oct 18, 2023		Soil	S23-Oc0045753	X		X	X	X	
10	HSB17	Oct 18, 2023		Soil	S23-Oc0045754	X		X	X	X	
11	TS01_B	Oct 18, 2023		Soil	S23-Oc0045755	X		X	X	X	
12	TS01_W1	Oct 18, 2023		Soil	S23-Oc0045756	X		X	X	X	
13	TS01_W2	Oct 18, 2023		Soil	S23-Oc0045757	X		X	X	X	

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Order No.:
Report #: 1036638
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 18, 2023 3:44 PM
Due: Oct 25, 2023
Priority: 5 Day
Contact Name: Michael Page

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
14	TS02_B	Oct 18, 2023		Soil	S23-Oc0045758	X		X	X	X	
15	TS02_W1	Oct 18, 2023		Soil	S23-Oc0045759	X		X	X	X	
16	TS02_W2	Oct 18, 2023		Soil	S23-Oc0045760	X		X	X	X	
17	TS03_B	Oct 18, 2023		Soil	S23-Oc0045761	X		X	X	X	
18	TS03_W1	Oct 18, 2023		Soil	S23-Oc0045762	X		X	X	X	
19	TS03_W2	Oct 18, 2023		Soil	S23-Oc0045763	X		X	X	X	
20	TS04_B	Oct 18, 2023		Soil	S23-Oc0045764	X		X	X	X	
21	TS04_W1	Oct 18, 2023		Soil	S23-Oc0045765	X		X	X	X	
22	TS04_W2	Oct 18, 2023		Soil	S23-Oc0045766	X		X	X	X	
23	TS05_B	Oct 18, 2023		Soil	S23-Oc0045767	X		X	X	X	
24	TS05_W1	Oct 18, 2023		Soil	S23-Oc0045768	X		X	X	X	
25	TS05_W2	Oct 18, 2023		Soil	S23-Oc0045769	X		X	X	X	
26	TS06_B	Oct 18, 2023		Soil	S23-Oc0045770	X		X	X	X	
27	TS06_W1	Oct 18, 2023		Soil	S23-Oc0045771	X		X	X	X	
28	TS06_W2	Oct 18, 2023		Soil	S23-Oc0045772	X		X	X	X	
29	TS07_B	Oct 18, 2023		Soil	S23-Oc0045773	X		X	X	X	

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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
30	TS07_W1	Oct 18, 2023		Soil	S23-Oc0045774	X		X	X	X	
31	TS07_W2	Oct 18, 2023		Soil	S23-Oc0045775	X		X	X	X	
32	TS08_B	Oct 18, 2023		Soil	S23-Oc0045776	X		X	X	X	
33	TS08_W1	Oct 18, 2023		Soil	S23-Oc0045777	X		X	X	X	
34	TS08_W2	Oct 18, 2023		Soil	S23-Oc0045778	X		X	X	X	
35	TS09_B	Oct 18, 2023		Soil	S23-Oc0045779	X		X	X	X	
36	TS09_W1	Oct 18, 2023		Soil	S23-Oc0045780	X		X	X	X	
37	TS09_W2	Oct 18, 2023		Soil	S23-Oc0045781	X		X	X	X	
38	TS10_B	Oct 18, 2023		Soil	S23-Oc0045782	X		X	X	X	
39	TS10_W1	Oct 18, 2023		Soil	S23-Oc0045783	X		X	X	X	
40	TS10_W2	Oct 18, 2023		Soil	S23-Oc0045784	X		X	X	X	
41	TS11_B	Oct 18, 2023		Soil	S23-Oc0045785	X		X	X	X	
42	TS11_W1	Oct 18, 2023		Soil	S23-Oc0045786	X		X	X	X	
43	TS11_W2	Oct 18, 2023		Soil	S23-Oc0045787	X		X	X	X	
44	TS12_B	Oct 18, 2023		Soil	S23-Oc0045788	X		X	X	X	
45	TS12_W1	Oct 18, 2023		Soil	S23-Oc0045789	X		X	X	X	

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Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
46	TS12_W2	Oct 18, 2023		Soil	S23-Oc0045790	X		X	X	X	
47	TS13_B	Oct 18, 2023		Soil	S23-Oc0045791	X		X	X	X	
48	TS13_W1	Oct 18, 2023		Soil	S23-Oc0045792	X		X	X	X	
49	TS13_W2	Oct 18, 2023		Soil	S23-Oc0045793	X		X	X	X	
50	TS14_B	Oct 18, 2023		Soil	S23-Oc0045794	X		X	X	X	
51	TS14_W1	Oct 18, 2023		Soil	S23-Oc0045795	X		X	X	X	
52	TS14_W2	Oct 18, 2023		Soil	S23-Oc0045796	X		X	X	X	
53	TS15_B	Oct 18, 2023		Soil	S23-Oc0045797	X		X	X	X	
54	TS15_W1	Oct 18, 2023		Soil	S23-Oc0045798	X		X	X	X	
55	TS15_W2	Oct 18, 2023		Soil	S23-Oc0045799	X		X	X	X	
56	TS16_B	Oct 18, 2023		Soil	S23-Oc0045800	X		X	X	X	
57	TS16_W1	Oct 18, 2023		Soil	S23-Oc0045801	X		X	X	X	
58	TS16_W2	Oct 18, 2023		Soil	S23-Oc0045802	X		X	X	X	
59	TS25_B	Oct 18, 2023		Soil	S23-Oc0045803	X		X	X	X	
60	TS25_W1	Oct 18, 2023		Soil	S23-Oc0045804	X		X	X	X	
61	TS25_W2	Oct 18, 2023		Soil	S23-Oc0045805	X		X	X	X	

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Sample Detail

Sample Detail						Asbestos - WA guidelines	HOLD	Organochlorine Pesticides	Metals M8	Moisture Set	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
62	TS26_B	Oct 18, 2023		Soil	S23-Oc0045806	X		X	X	X	
63	TS26_W1	Oct 18, 2023		Soil	S23-Oc0045807	X		X	X	X	
64	TS26_W2	Oct 18, 2023		Soil	S23-Oc0045808	X		X	X	X	
65	TS27_B	Oct 18, 2023		Soil	S23-Oc0045809	X		X	X	X	
66	TS27_W1	Oct 18, 2023		Soil	S23-Oc0045810	X		X	X	X	
67	TS27_W2	Oct 18, 2023		Soil	S23-Oc0045811	X		X	X	X	
68	DW-B1	Oct 18, 2023		Soil	S23-Oc0045812	X		X	X	X	
69	DW-B2	Oct 18, 2023		Soil	S23-Oc0045813	X		X	X	X	
70	DW-B3	Oct 18, 2023		Soil	S23-Oc0045814	X		X	X	X	
71	DW-B4	Oct 18, 2023		Soil	S23-Oc0045815	X		X	X	X	
72	QC101	Oct 18, 2023		Soil	S23-Oc0045816			X	X	X	
73	QC103	Oct 18, 2023		Soil	S23-Oc0045817			X	X	X	
74	TRIP BLANK	Oct 18, 2023		Trip Blank (solid)	S23-Oc0045818						X
75	QC105	Oct 18, 2023		Water	S23-Oc0045819		X				
Test Counts						72	1	73	73	73	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	101			70-130	Pass	
4.4'-DDD	%	107			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4,4'-DDT			%	97			70-130	Pass	
a-HCH			%	98			70-130	Pass	
Aldrin			%	96			70-130	Pass	
b-HCH			%	96			70-130	Pass	
d-HCH			%	100			70-130	Pass	
Dieldrin			%	101			70-130	Pass	
Endosulfan I			%	109			70-130	Pass	
Endosulfan II			%	109			70-130	Pass	
Endosulfan sulphate			%	81			70-130	Pass	
Endrin			%	91			70-130	Pass	
Endrin aldehyde			%	71			70-130	Pass	
Endrin ketone			%	79			70-130	Pass	
g-HCH (Lindane)			%	101			70-130	Pass	
Heptachlor			%	119			70-130	Pass	
Heptachlor epoxide			%	109			70-130	Pass	
Hexachlorobenzene			%	97			70-130	Pass	
Methoxychlor			%	117			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	101			80-120	Pass	
Cadmium			%	104			80-120	Pass	
Chromium			%	103			80-120	Pass	
Copper			%	103			80-120	Pass	
Lead			%	101			80-120	Pass	
Mercury			%	111			80-120	Pass	
Nickel			%	102			80-120	Pass	
Zinc			%	100			80-120	Pass	
LCS - % Recovery									
Naphthalene			%	90			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons									
TRH C6-C9			%	72			70-130	Pass	
TRH C6-C10			%	73			70-130	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	96			70-130	Pass	
Toluene			%	92			70-130	Pass	
Ethylbenzene			%	96			70-130	Pass	
m&p-Xylenes			%	94			70-130	Pass	
o-Xylene			%	97			70-130	Pass	
Xylenes - Total*			%	95			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-Oc0045751	CP	%	116			75-125	Pass	
Cadmium	S23-Oc0045751	CP	%	97			75-125	Pass	
Copper	S23-Oc0045751	CP	%	103			75-125	Pass	
Lead	S23-Oc0045751	CP	%	104			75-125	Pass	
Mercury	S23-Oc0045751	CP	%	104			75-125	Pass	
Nickel	S23-Oc0045751	CP	%	116			75-125	Pass	
Zinc	S23-Oc0045751	CP	%	117			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-Oc0045768	CP	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	S23-Oc0045768	CP	%	96			70-130	Pass	
4.4'-DDE	S23-Oc0045768	CP	%	99			70-130	Pass	
4.4'-DDT	S23-Oc0045768	CP	%	107			70-130	Pass	
a-HCH	S23-Oc0045768	CP	%	97			70-130	Pass	
Aldrin	S23-Oc0045768	CP	%	98			70-130	Pass	
b-HCH	S23-Oc0045768	CP	%	99			70-130	Pass	
d-HCH	S23-Oc0045768	CP	%	101			70-130	Pass	
Dieldrin	S23-Oc0045768	CP	%	105			70-130	Pass	
Endosulfan I	S23-Oc0045768	CP	%	99			70-130	Pass	
Endosulfan II	S23-Oc0045768	CP	%	97			70-130	Pass	
Endosulfan sulphate	S23-Oc0045768	CP	%	101			70-130	Pass	
Endrin	S23-Oc0045768	CP	%	103			70-130	Pass	
Endrin aldehyde	S23-Oc0045768	CP	%	103			70-130	Pass	
Endrin ketone	S23-Oc0045768	CP	%	102			70-130	Pass	
g-HCH (Lindane)	S23-Oc0045768	CP	%	102			70-130	Pass	
Heptachlor	S23-Oc0045768	CP	%	100			70-130	Pass	
Heptachlor epoxide	S23-Oc0045768	CP	%	99			70-130	Pass	
Hexachlorobenzene	S23-Oc0045768	CP	%	100			70-130	Pass	
Methoxychlor	S23-Oc0045768	CP	%	96			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-Oc0045771	CP	%	83			75-125	Pass	
Cadmium	S23-Oc0045771	CP	%	81			75-125	Pass	
Chromium	S23-Oc0045771	CP	%	120			75-125	Pass	
Copper	S23-Oc0045771	CP	%	88			75-125	Pass	
Lead	S23-Oc0045771	CP	%	86			75-125	Pass	
Mercury	S23-Oc0045771	CP	%	96			75-125	Pass	
Nickel	S23-Oc0045771	CP	%	95			75-125	Pass	
Zinc	S23-Oc0045771	CP	%	85			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-Oc0045788	CP	%	106			70-130	Pass	
4.4'-DDD	S23-Oc0045788	CP	%	106			70-130	Pass	
4.4'-DDE	S23-Oc0045788	CP	%	100			70-130	Pass	
4.4'-DDT	S23-Oc0045788	CP	%	99			70-130	Pass	
a-HCH	S23-Oc0045788	CP	%	95			70-130	Pass	
Aldrin	S23-Oc0045788	CP	%	101			70-130	Pass	
b-HCH	S23-Oc0045788	CP	%	90			70-130	Pass	
d-HCH	S23-Oc0045788	CP	%	94			70-130	Pass	
Dieldrin	S23-Oc0045788	CP	%	107			70-130	Pass	
Endosulfan I	S23-Oc0045788	CP	%	116			70-130	Pass	
Endosulfan II	S23-Oc0045788	CP	%	116			70-130	Pass	
Endosulfan sulphate	S23-Oc0045788	CP	%	83			70-130	Pass	
Endrin	S23-Oc0045788	CP	%	100			70-130	Pass	
Endrin aldehyde	S23-Oc0045788	CP	%	90			70-130	Pass	
Endrin ketone	S23-Oc0045788	CP	%	92			70-130	Pass	
g-HCH (Lindane)	S23-Oc0045788	CP	%	96			70-130	Pass	
Heptachlor	S23-Oc0045788	CP	%	114			70-130	Pass	
Heptachlor epoxide	S23-Oc0045788	CP	%	112			70-130	Pass	
Hexachlorobenzene	S23-Oc0045788	CP	%	89			70-130	Pass	
Methoxychlor	S23-Oc0045788	CP	%	139			70-130	Fail	Q08
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-Oc0045801	CP	%	93			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	S23-Oc0045801	CP	%	98			75-125	Pass	
Chromium	S23-Oc0045801	CP	%	84			75-125	Pass	
Copper	S23-Oc0045801	CP	%	93			75-125	Pass	
Lead	S23-Oc0045801	CP	%	102			75-125	Pass	
Mercury	S23-Oc0045801	CP	%	102			75-125	Pass	
Nickel	S23-Oc0045801	CP	%	88			75-125	Pass	
Zinc	S23-Oc0045801	CP	%	93			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	S23-Oc0045808	CP	%	109			70-130	Pass	
4.4'-DDE	S23-Oc0045808	CP	%	107			70-130	Pass	
4.4'-DDT	S23-Oc0045808	CP	%	99			70-130	Pass	
a-HCH	S23-Oc0045808	CP	%	96			70-130	Pass	
Aldrin	S23-Oc0045808	CP	%	116			70-130	Pass	
b-HCH	S23-Oc0045808	CP	%	81			70-130	Pass	
d-HCH	S23-Oc0045808	CP	%	96			70-130	Pass	
Dieldrin	S23-Oc0045808	CP	%	116			70-130	Pass	
Endosulfan I	S23-Oc0045808	CP	%	120			70-130	Pass	
Endosulfan II	S23-Oc0045808	CP	%	116			70-130	Pass	
Endosulfan sulphate	S23-Oc0045808	CP	%	94			70-130	Pass	
Endrin	S23-Oc0045808	CP	%	106			70-130	Pass	
Endrin aldehyde	S23-Oc0045808	CP	%	89			70-130	Pass	
Endrin ketone	S23-Oc0045808	CP	%	99			70-130	Pass	
g-HCH (Lindane)	S23-Oc0045808	CP	%	112			70-130	Pass	
Heptachlor	S23-Oc0045808	CP	%	119			70-130	Pass	
Heptachlor epoxide	S23-Oc0045808	CP	%	118			70-130	Pass	
Hexachlorobenzene	S23-Oc0045808	CP	%	90			70-130	Pass	
Methoxychlor	S23-Oc0045808	CP	%	124			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-Oc0045811	CP	%	95			75-125	Pass	
Cadmium	S23-Oc0045811	CP	%	104			75-125	Pass	
Chromium	S23-Oc0045811	CP	%	97			75-125	Pass	
Copper	S23-Oc0045811	CP	%	99			75-125	Pass	
Lead	S23-Oc0045811	CP	%	100			75-125	Pass	
Mercury	S23-Oc0045811	CP	%	100			75-125	Pass	
Nickel	S23-Oc0045811	CP	%	97			75-125	Pass	
Zinc	S23-Oc0045811	CP	%	99			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-Oc0045815	CP	%	107			70-130	Pass	
4.4'-DDD	S23-Oc0045815	CP	%	106			70-130	Pass	
4.4'-DDE	S23-Oc0045815	CP	%	127			70-130	Pass	
4.4'-DDT	S23-Oc0045815	CP	%	88			70-130	Pass	
a-HCH	S23-Oc0045815	CP	%	116			70-130	Pass	
Aldrin	S23-Oc0045815	CP	%	119			70-130	Pass	
b-HCH	S23-Oc0045815	CP	%	118			70-130	Pass	
d-HCH	S23-Oc0045815	CP	%	118			70-130	Pass	
Dieldrin	S23-Oc0045815	CP	%	113			70-130	Pass	
Endosulfan I	S23-Oc0045815	CP	%	114			70-130	Pass	
Endosulfan II	S23-Oc0045815	CP	%	117			70-130	Pass	
Endosulfan sulphate	S23-Oc0045815	CP	%	99			70-130	Pass	
Endrin	S23-Oc0045815	CP	%	92			70-130	Pass	
Endrin aldehyde	S23-Oc0045815	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S23-Oc0045815	CP	%	94			70-130	Pass	
g-HCH (Lindane)	S23-Oc0045815	CP	%	126			70-130	Pass	
Heptachlor	S23-Oc0045815	CP	%	102			70-130	Pass	
Heptachlor epoxide	S23-Oc0045815	CP	%	107			70-130	Pass	
Hexachlorobenzene	S23-Oc0045815	CP	%	99			70-130	Pass	
Methoxychlor	S23-Oc0045815	CP	%	94			70-130	Pass	
Spike - % Recovery									
				Result 1					
Naphthalene	W23-Oc0040100	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	W23-Oc0040100	NCP	%	71			70-130	Pass	
TRH C6-C10	W23-Oc0040100	NCP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	W23-Oc0040100	NCP	%	87			70-130	Pass	
Toluene	W23-Oc0040100	NCP	%	77			70-130	Pass	
Ethylbenzene	W23-Oc0040100	NCP	%	87			70-130	Pass	
m&p-Xylenes	W23-Oc0040100	NCP	%	86			70-130	Pass	
o-Xylene	W23-Oc0040100	NCP	%	88			70-130	Pass	
Xylenes - Total*	W23-Oc0040100	NCP	%	87			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Oc0045747	CP	mg/kg	30	32	5.9	30%	Pass	
Cadmium	S23-Oc0045747	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Oc0045747	CP	mg/kg	69	58	17	30%	Pass	
Copper	S23-Oc0045747	CP	mg/kg	27	39	35	30%	Fail	Q15
Mercury	S23-Oc0045747	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Oc0045747	CP	mg/kg	40	44	11	30%	Pass	
Zinc	S23-Oc0045747	CP	mg/kg	380	420	9.2	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S23-Oc0045748	CP	%	2.1	1.9	9.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Oc0045750	CP	mg/kg	10	9.8	3.7	30%	Pass	
Cadmium	S23-Oc0045750	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Oc0045750	CP	mg/kg	79	81	2.3	30%	Pass	
Copper	S23-Oc0045750	CP	mg/kg	19	19	3.2	30%	Pass	
Lead	S23-Oc0045750	CP	mg/kg	50	26	65	30%	Fail	Q15
Mercury	S23-Oc0045750	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Oc0045750	CP	mg/kg	21	32	39	30%	Fail	Q15
Zinc	S23-Oc0045750	CP	mg/kg	140	160	15	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S23-Oc0045757	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Dieldrin	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045757	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045758	CP	%	5.7	5.3	7.2	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045760	CP	mg/kg	7.1	6.9	3.3	30%	Pass
Chromium	S23-Oc0045760	CP	mg/kg	100	94	8.2	30%	Pass
Copper	S23-Oc0045760	CP	mg/kg	20	19	2.3	30%	Pass
Lead	S23-Oc0045760	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S23-Oc0045760	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045760	CP	mg/kg	48	41	18	30%	Pass
Zinc	S23-Oc0045760	CP	mg/kg	30	28	7.4	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045767	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045767	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045767	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045768	CP	%	8.9	8.8	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045769	CP	mg/kg	11	12	8.7	30%	Pass
Cadmium	S23-Oc0045769	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045769	CP	mg/kg	96	100	7.5	30%	Pass
Copper	S23-Oc0045769	CP	mg/kg	17	18	7.5	30%	Pass
Lead	S23-Oc0045769	CP	mg/kg	25	27	6.3	30%	Pass
Mercury	S23-Oc0045769	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045769	CP	mg/kg	28	30	8.2	30%	Pass
Zinc	S23-Oc0045769	CP	mg/kg	43	44	3.2	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045774	CP	mg/kg	6.3	6.6	5.6	30%	Pass
Cadmium	S23-Oc0045774	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045774	CP	mg/kg	57	60	5.1	30%	Pass
Copper	S23-Oc0045774	CP	mg/kg	13	13	3.6	30%	Pass
Lead	S23-Oc0045774	CP	mg/kg	23	24	6.5	30%	Pass
Mercury	S23-Oc0045774	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045774	CP	mg/kg	25	26	5.1	30%	Pass
Zinc	S23-Oc0045774	CP	mg/kg	48	51	5.6	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045778	CP	%	9.4	8.6	9.4	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045780	CP	mg/kg	15	17	14	30%	Pass
Cadmium	S23-Oc0045780	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045780	CP	mg/kg	140	110	23	30%	Pass
Copper	S23-Oc0045780	CP	mg/kg	27	25	8.5	30%	Pass
Lead	S23-Oc0045780	CP	mg/kg	17	21	24	30%	Pass
Mercury	S23-Oc0045780	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045780	CP	mg/kg	57	50	13	30%	Pass
Zinc	S23-Oc0045780	CP	mg/kg	76	73	3.4	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045787	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045787	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045787	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045788	CP	%	5.9	6.5	11	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045790	CP	mg/kg	6.7	6.1	9.9	30%	Pass
Cadmium	S23-Oc0045790	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045790	CP	mg/kg	130	120	7.6	30%	Pass
Copper	S23-Oc0045790	CP	mg/kg	22	22	1.4	30%	Pass
Lead	S23-Oc0045790	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S23-Oc0045790	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045790	CP	mg/kg	57	54	4.8	30%	Pass
Zinc	S23-Oc0045790	CP	mg/kg	30	29	3.5	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045797	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045797	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045797	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045798	CP	%	11	8.9	25	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045800	CP	mg/kg	12	11	6.5	30%	Pass
Cadmium	S23-Oc0045800	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045800	CP	mg/kg	150	150	4.5	30%	Pass
Copper	S23-Oc0045800	CP	mg/kg	24	24	1.5	30%	Pass
Lead	S23-Oc0045800	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	S23-Oc0045800	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045800	CP	mg/kg	57	55	4.8	30%	Pass
Zinc	S23-Oc0045800	CP	mg/kg	36	34	6.2	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045807	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045807	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045807	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-Oc0045808	CP	%	11	11	6.5	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045810	CP	mg/kg	3.4	2.6	25	30%	Pass
Cadmium	S23-Oc0045810	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045810	CP	mg/kg	97	68	35	30%	Fail Q15
Copper	S23-Oc0045810	CP	mg/kg	15	11	29	30%	Pass
Lead	S23-Oc0045810	CP	mg/kg	5.2	< 5	35	30%	Fail Q15
Mercury	S23-Oc0045810	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045810	CP	mg/kg	34	25	31	30%	Fail Q15
Zinc	S23-Oc0045810	CP	mg/kg	20	15	27	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-Oc0045815	CP	mg/kg	3.7	4.1	9.7	30%	Pass
Cadmium	S23-Oc0045815	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-Oc0045815	CP	mg/kg	69	70	2.3	30%	Pass
Copper	S23-Oc0045815	CP	mg/kg	10	11	6.1	30%	Pass
Lead	S23-Oc0045815	CP	mg/kg	5.1	5.0	<1	30%	Pass
Mercury	S23-Oc0045815	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-Oc0045815	CP	mg/kg	22	22	<1	30%	Pass
Zinc	S23-Oc0045815	CP	mg/kg	15	15	3.9	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-Oc0045817	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-Oc0045817	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-Oc0045817	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Naphthalene	R23-Oc0032146	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	R23-Oc0032146	NCP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10	R23-Oc0032146	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	R23-Oc0032146	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	R23-Oc0032146	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	R23-Oc0032146	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	R23-Oc0032146	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	R23-Oc0032146	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	R23-Oc0032146	NCP	mg/kg	< 0.3	< 0.3	<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
G01	The LORs have been raised due to matrix interference
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
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.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Zoe Flynn	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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From: Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Sent: Friday, 20 October 2023 4:26 PM

To: Zoe Flynn <ZoeFlynn@eurofins.com>

Cc: #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>

Subject: Report 1028239 : Site DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION (282871) - Repeat and TCLP/ASLP tests

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

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Hi Zoe

Can you please complete two repeats (two repeats per sample) for arsenic on the following samples:

- HSA02_TS_230920 20 Sep 2023 1028239 B23-Se0050227
- HSA03_TS_230920 20 Sep 2023 1028239 B23-Se0050230

Can you also complete a TCLP and ASLP (pH neutral) leachate arsenic test on both of these samples as well (two repeats per sample is not required for TCLP/ASLP).

Best regards

Jeremy Wicks | Queensland Practice Leader Site Assessment and Remediation

Direct +61 7 3239 9357 | Business +61 7 3239 9300 | Mobile +61 435 956 733 | jeremy.wicks@tetrattech.com

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#1037505

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID:	282871
Turnaround time:	5 Day
Date/Time received	Oct 20, 2023 4:26 PM
Eurofins reference	1037505

Sample Information

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

Notes

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1037505
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 20, 2023 4:26 PM
Due: Oct 27, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	HSA02_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054282	X			X
2	HSA03_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054283	X			X
3	HSA02_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054284	X	X		
4	HSA03_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054285	X	X		
5	HSA02_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054286	X		X	
6	HSA03_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054287	X		X	
7	HSA02_TS_23_0920 Dup	Sep 20, 2023		Soil	B23-Oc0059261	X			X



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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1037505
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 20, 2023 4:26 PM
Due: Oct 27, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
8	HSA03_TS_23 0920 Dup	Sep 20, 2023		Soil	B23-Oc0059262	X			X
Test Counts						8	2	2	4

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1037505-L**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282871**
Received Date **Oct 20, 2023**

Client Sample ID			HSA02_TS_23 0920	HSA03_TS_23 0920	HSA02_TS_23 0920	HSA03_TS_23 0920
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	US Leachate	US Leachate
Eurofins Sample No.			B23- Oc0054284	B23- Oc0054285	B23- Oc0054286	B23- Oc0054287
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	1.3	0.53	2.5	0.98
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	-	-
pH (initial)	0.1	pH Units	N/A	N/A	-	-
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	-	-
pH (off)	0.1	pH Units	8.1	7.0	-	-
USA Leaching Procedure						
Leachate Fluid ^{C01}		comment	-	-	1.0	1.0
pH (initial)	0.1	pH Units	-	-	7.8	6.5
pH (Leachate fluid)	0.1	pH Units	-	-	5.0	5.0
pH (off)	0.1	pH Units	-	-	5.1	5.0
pH (USA HCl addition)	0.1	pH Units	-	-	1.4	1.3

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Oct 24, 2023	28 Days
AUS Leaching Procedure - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Brisbane	Oct 24, 2023	7 Days
USA Leaching Procedure - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Brisbane	Oct 24, 2023	14 Days

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1037505
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 20, 2023 4:26 PM
Due: Oct 27, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	HSA02_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054282	X			X
2	HSA03_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054283	X			X
3	HSA02_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054284	X	X		
4	HSA03_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054285	X	X		
5	HSA02_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054286	X		X	
6	HSA03_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054287	X		X	
7	HSA02_TS_23_0920 Dup	Sep 20, 2023		Soil	B23-Oc0059261	X			X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Due: Oct 27, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
8	HSA03_TS_23 0920 Dup	Sep 20, 2023		Soil	B23-Oc0059262	X			X
Test Counts						8	2	2	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals										
Arsenic				mg/L	< 0.01			0.01	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	88			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Arsenic					Result 1					
Arsenic				%	89			75-125	Pass	
Spike - % Recovery										
Heavy Metals										
Arsenic					Result 1					
Arsenic				%	97			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Arsenic					Result 1	Result 2	RPD			
Arsenic				mg/L	1.3	1.3	<1	30%	Pass	
Duplicate										
Heavy Metals										
Arsenic					Result 1	Result 2	RPD			
Arsenic				mg/L	2.5	2.6	2.9	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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
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Accreditation Number 1261
Site Number 20794

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 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: **Jeremy Wicks**

Report **1037505-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION**
Project ID **282871**
Received Date **Oct 20, 2023**

Client Sample ID			HSA02_TS_23 0920	HSA03_TS_23 0920	HSA02_TS_23 0920 Dup	HSA03_TS_23 0920 Dup
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0054282	B23- Oc0054283	B23- Oc0059261	B23- Oc0059262
Date Sampled			Sep 20, 2023	Sep 20, 2023	Sep 20, 2023	Sep 20, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	280	110	270	170
Sample Properties						
% Moisture	1	%	1.6	3.0	1.7	< 1

Sample History

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

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

Description

Heavy Metals

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

% Moisture

- Method: LTM-GEN-7080 Moisture

Testing Site

Brisbane

Brisbane

Extracted

Oct 26, 2023

Oct 25, 2023

Holding Time

28 Days

14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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Chatswood
NSW 2067

Project Name: DEPARTMENT OF VETERAN AFFAIRS- GREENSLOPES REMEDIATION
Project ID: 282871

Order No.:
Report #: 1037505
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 20, 2023 4:26 PM
Due: Oct 27, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	HSA02_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054282	X			X
2	HSA03_TS_23_0920	Sep 20, 2023		Soil	B23-Oc0054283	X			X
3	HSA02_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054284	X	X		
4	HSA03_TS_23_0920	Sep 20, 2023		AUS Leachate - Reagent Water	B23-Oc0054285	X	X		
5	HSA02_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054286	X		X	
6	HSA03_TS_23_0920	Sep 20, 2023		US Leachate	B23-Oc0054287	X		X	
7	HSA02_TS_23_0920 Dup	Sep 20, 2023		Soil	B23-Oc0059261	X			X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

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Sample Detail						Arsenic	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
8	HSA03_TS_23 0920 Dup	Sep 20, 2023		Soil	B23-Oc0059262	X			X
Test Counts						8	2	2	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals										
Arsenic				mg/kg	< 2			2	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	102			80-120	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Arsenic					Result 1					
Arsenic				%	97			75-125	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Arsenic					Result 1	Result 2	RPD			
Arsenic				mg/kg	6.4	5.3	18	30%	Pass	
Duplicate										
Sample Properties										
% Moisture					Result 1	Result 2	RPD			
% Moisture				%	1.7	1.5	17	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

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-Metal



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Company		Tetra Tech Collyer Environment Pty Ltd QLD			Project No		271310			Project Manager		Jeremy Wicks		Sampler(s)		Michael Page											
Address		Level 5, 12 Creek Street, Brisbane, QLD, 4000			Project Name		DVA Genitopsis			EDC Format		Eddet		Facility Code		Email for Invoice		Michael Page									
Contact Name		Michael Page			Analyses <small>Where results are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.</small>		Asbestos (NEPM)			8 Metals			OCPs			PFASfull - PFAShtl : Per- and Polyfluoroalkyl Substances (PFASs)			Email for Results			jeremy.wicks@tetratech.com					
Phone No		0406 394 431					B4 - TRH, BTEXN, PAH			B14 - OCP, OPP			V5 - BTEXTPH : BTEXN and Volatile TRH			Jar (Glass or HDPE)			michael.page@tetratech.com								
Special Directions		* send to ALS Please														Other (Asbestos AS4984, WA Guidelines)		Revised Turnaround Time (TAT) Default is 5 days (weekdays)									
Purchase Order					Matrix Soil (S), Sludge (S), Water (W)											500mL Plastic			Containers <small>Check, label with bar code & inventory</small>		Revised Turnaround Time (TAT) Default is 5 days (weekdays)						
Quote ID No																250mL Plastic											
Client Sample ID		A1			Sampled Date/Time		26/10/23			Soil			X			X			X			1		1		Sample Comments / Dangerous Goods Hazard Warning	
		A2			26/10/23		Soil			X			X			X											
		A3			26/10/23		Soil			X			X			X											
		A4			26/10/23		Soil			X			X			X											
		A5			26/10/23		Soil			X			X			X											
		A6			26/10/23		Soil			X			X			X											
		A7			26/10/23		Soil			X			X			X											
		A8			26/10/23		Soil			X			X			X											
		A9			26/10/23		Soil			X			X			X											
		A10			26/10/23		Soil			X			X			X											
		B1			26/10/23		Soil			X			X			X											
		B2			26/10/23		Soil			X			X			X											
		B3			26/10/23		Soil			X			X			X											
		B4			26/10/23		Soil			X			X			X											
		B5			26/10/23		Soil			X			X			X											
		B6			26/10/23		Soil			X			X			X											

#1039102

[illegible]

Eurofins Environment Testing Australia Pty Ltd

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Perth
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Eurofins Environment Testing NZ Ltd

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DVA Geenslopes
Project ID:	278300
Turnaround time:	5 Day
Date/Time received	Oct 26, 2023 6:15 PM
Eurofins reference	1039102

Sample Information

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

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
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Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	A1	Oct 26, 2023		Soil	B23-Oc0068523	X		X	X		X		
2	A2	Oct 26, 2023		Soil	B23-Oc0068524	X		X	X		X		
3	A3	Oct 26, 2023		Soil	B23-Oc0068525	X		X	X		X		
4	A4	Oct 26, 2023		Soil	B23-Oc0068526	X		X	X		X		
5	A5	Oct 26, 2023		Soil	B23-Oc0068527	X		X	X		X		
6	A6	Oct 26, 2023		Soil	B23-Oc0068528	X		X	X		X		
7	A7	Oct 26, 2023		Soil	B23-Oc0068529	X		X	X		X		
8	A8	Oct 26, 2023		Soil	B23-Oc0068530	X		X	X		X		
9	A9	Oct 26, 2023		Soil	B23-Oc0068531	X		X	X		X		
10	A10	Oct 26, 2023		Soil	B23-Oc0068532	X		X	X		X		
11	B1	Oct 26, 2023		Soil	B23-Oc0068533	X		X	X		X		



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

Company Name:	Tetra Tech Coffey Environment Pty Ltd QLD	Order No.:		Received:	Oct 26, 2023 6:15 PM
Address:	Level 20, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	Report #:	1039102	Due:	Nov 3, 2023
		Phone:	+61 2 9406 1000	Priority:	5 Day
		Fax:	+61 2 9406 1004	Contact Name:	Jeremy Wicks
Project Name:	DVA Geenslopes				
Project ID:	278300				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
12	B2	Oct 26, 2023		Soil	B23-Oc0068534	X		X	X		X		
13	B3	Oct 26, 2023		Soil	B23-Oc0068535	X		X	X		X		
14	B4	Oct 26, 2023		Soil	B23-Oc0068536	X		X	X		X		
15	B5	Oct 26, 2023		Soil	B23-Oc0068537	X		X	X		X		
16	B6	Oct 26, 2023		Soil	B23-Oc0068538	X		X	X		X		
17	B7	Oct 26, 2023		Soil	B23-Oc0068539	X		X	X		X		
18	B8	Oct 26, 2023		Soil	B23-Oc0068540	X		X	X		X		
19	B9	Oct 26, 2023		Soil	B23-Oc0068541	X		X	X		X		
20	B10	Oct 26, 2023		Soil	B23-Oc0068542	X		X	X		X		
21	C1	Oct 26, 2023		Soil	B23-Oc0068543	X		X	X		X		
22	C2	Oct 26, 2023		Soil	B23-Oc0068544	X		X	X		X		
23	C3	Oct 26, 2023		Soil	B23-Oc0068545	X		X	X		X		
24	C4	Oct 26, 2023		Soil	B23-Oc0068546	X		X	X		X		
25	C5	Oct 26, 2023		Soil	B23-Oc0068547	X		X	X		X		



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

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
26	C6	Oct 26, 2023		Soil	B23-Oc0068548	X		X	X		X		
27	C7	Oct 26, 2023		Soil	B23-Oc0068549	X		X	X		X		
28	C8	Oct 26, 2023		Soil	B23-Oc0068550	X		X	X		X		
29	C9	Oct 26, 2023		Soil	B23-Oc0068551	X		X	X		X		
30	C10	Oct 26, 2023		Soil	B23-Oc0068552	X		X	X		X		
31	D1	Oct 26, 2023		Soil	B23-Oc0068553	X		X	X		X		
32	D2	Oct 26, 2023		Soil	B23-Oc0068554	X		X	X		X		
33	D3	Oct 26, 2023		Soil	B23-Oc0068555	X		X	X		X		
34	D4	Oct 26, 2023		Soil	B23-Oc0068556	X		X	X		X		
35	D5	Oct 26, 2023		Soil	B23-Oc0068557	X		X	X		X		
36	D6	Oct 26, 2023		Soil	B23-Oc0068558	X		X	X		X		
37	D7	Oct 26, 2023		Soil	B23-Oc0068559	X		X	X		X		
38	D8	Oct 26, 2023		Soil	B23-Oc0068560	X		X	X		X		
39	D9	Oct 26, 2023		Soil	B23-Oc0068561	X		X	X		X		



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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Company Name:	Tetra Tech Coffey Environment Pty Ltd QLD	Order No.:		Received:	Oct 26, 2023 6:15 PM
Address:	Level 20, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	Report #:	1039102	Due:	Nov 3, 2023
		Phone:	+61 2 9406 1000	Priority:	5 Day
		Fax:	+61 2 9406 1004	Contact Name:	Jeremy Wicks
Project Name:	DVA Geenslopes				
Project ID:	278300				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
40	D10	Oct 26, 2023		Soil	B23-Oc0068562	X		X	X		X		
41	E1	Oct 26, 2023		Soil	B23-Oc0068563	X		X	X		X		
42	E2	Oct 26, 2023		Soil	B23-Oc0068564	X		X	X		X		
43	E3	Oct 26, 2023		Soil	B23-Oc0068565	X		X	X		X		
44	E4	Oct 26, 2023		Soil	B23-Oc0068566	X		X	X		X		
45	E5	Oct 26, 2023		Soil	B23-Oc0068567	X		X	X		X		
46	E6	Oct 26, 2023		Soil	B23-Oc0068568	X		X	X		X		
47	E7	Oct 26, 2023		Soil	B23-Oc0068569	X		X	X		X		
48	E8	Oct 26, 2023		Soil	B23-Oc0068570	X		X	X		X		
49	E9	Oct 26, 2023		Soil	B23-Oc0068571	X		X	X		X		
50	E10	Oct 26, 2023		Soil	B23-Oc0068572	X		X	X		X		
51	F1	Oct 26, 2023		Soil	B23-Oc0068573	X		X	X		X		
52	F2	Oct 26, 2023		Soil	B23-Oc0068574	X		X	X		X		
53	F3	Oct 26, 2023		Soil	B23-Oc0068575	X		X	X		X		



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
54	F4	Oct 26, 2023		Soil	B23-Oc0068576	X		X	X		X		
55	F5	Oct 26, 2023		Soil	B23-Oc0068577	X		X	X		X		
56	F6	Oct 26, 2023		Soil	B23-Oc0068578	X		X	X		X		
57	F7	Oct 26, 2023		Soil	B23-Oc0068579	X		X	X		X		
58	F8	Oct 26, 2023		Soil	B23-Oc0068580	X		X	X		X		
59	F9	Oct 26, 2023		Soil	B23-Oc0068581	X		X	X		X		
60	F10	Oct 26, 2023		Soil	B23-Oc0068582	X		X	X		X		
61	G1	Oct 26, 2023		Soil	B23-Oc0068583	X		X	X		X		
62	G2	Oct 26, 2023		Soil	B23-Oc0068584	X		X	X		X		
63	G3	Oct 26, 2023		Soil	B23-Oc0068585	X		X	X		X		
64	G4	Oct 26, 2023		Soil	B23-Oc0068586	X		X	X		X		
65	G5	Oct 26, 2023		Soil	B23-Oc0068587	X		X	X		X		
66	G6	Oct 26, 2023		Soil	B23-Oc0068588	X		X	X		X		
67	G7	Oct 26, 2023		Soil	B23-Oc0068589	X		X	X		X		



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
68	G8	Oct 26, 2023		Soil	B23-Oc0068590	X		X	X		X		
69	G9	Oct 26, 2023		Soil	B23-Oc0068591	X		X	X		X		
70	G10	Oct 26, 2023		Soil	B23-Oc0068592	X		X	X		X		
71	H1	Oct 26, 2023		Soil	B23-Oc0068593	X		X	X		X		
72	H2	Oct 26, 2023		Soil	B23-Oc0068594	X		X	X		X		
73	H3	Oct 26, 2023		Soil	B23-Oc0068595	X		X	X		X		
74	H4	Oct 26, 2023		Soil	B23-Oc0068596	X		X	X		X		
75	H5	Oct 26, 2023		Soil	B23-Oc0068597	X		X	X		X		
76	H6	Oct 26, 2023		Soil	B23-Oc0068598	X		X	X		X		
77	H7	Oct 26, 2023		Soil	B23-Oc0068599	X		X	X		X		
78	H8	Oct 26, 2023		Soil	B23-Oc0068600	X		X	X		X		
79	H9	Oct 26, 2023		Soil	B23-Oc0068601	X		X	X		X		
80	H10	Oct 26, 2023		Soil	B23-Oc0068602	X		X	X		X		
81	HSB07	Oct 26, 2023		Soil	B23-Oc0068603	X		X	X		X		



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
82	IF01	Oct 26, 2023		Soil	B23-Oc0068604	X				X	X	X	X
83	IF02	Oct 26, 2023		Soil	B23-Oc0068605	X				X	X	X	X
84	IF03	Oct 26, 2023		Soil	B23-Oc0068606	X				X	X	X	X
85	IF04	Oct 26, 2023		Soil	B23-Oc0068607	X				X	X	X	X
86	IF05	Oct 26, 2023		Soil	B23-Oc0068608	X				X	X	X	X
87	IF06	Oct 26, 2023		Soil	B23-Oc0068609	X				X	X	X	X
88	T17-B	Oct 26, 2023		Soil	B23-Oc0068610	X		X	X		X		
89	T17-W1	Oct 26, 2023		Soil	B23-Oc0068611	X		X	X		X		
90	T17-W2	Oct 26, 2023		Soil	B23-Oc0068612	X		X	X		X		
91	T18-B	Oct 26, 2023		Soil	B23-Oc0068613	X		X	X		X		
92	T18-W1	Oct 26, 2023		Soil	B23-Oc0068614	X		X	X		X		
93	T18-W2	Oct 26, 2023		Soil	B23-Oc0068615	X		X	X		X		
94	T19-B	Oct 26, 2023		Soil	B23-Oc0068616	X		X	X		X		
95	T19-W1	Oct 26, 2023		Soil	B23-Oc0068617	X		X	X		X		



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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
96	T19-W2	Oct 26, 2023		Soil	B23-Oc0068618	X		X	X		X		
97	T20-B	Oct 26, 2023		Soil	B23-Oc0068619	X		X	X		X		
98	T20-W1	Oct 26, 2023		Soil	B23-Oc0068620	X		X	X		X		
99	T20-W2	Oct 26, 2023		Soil	B23-Oc0068621	X		X	X		X		
100	T21-B	Oct 26, 2023		Soil	B23-Oc0068622	X		X	X		X		
101	T21-W1	Oct 26, 2023		Soil	B23-Oc0068623	X		X	X		X		
102	T21-W2	Oct 26, 2023		Soil	B23-Oc0068624	X		X	X		X		
103	T22-B	Oct 26, 2023		Soil	B23-Oc0068625	X		X	X		X		
104	T22-W1	Oct 26, 2023		Soil	B23-Oc0068626	X		X	X		X		
105	T22-W2	Oct 26, 2023		Soil	B23-Oc0068627	X		X	X		X		
106	T23-B	Oct 26, 2023		Soil	B23-Oc0068628	X		X	X		X		
107	T23-W1	Oct 26, 2023		Soil	B23-Oc0068629	X		X	X		X		
108	T23-W2	Oct 26, 2023		Soil	B23-Oc0068630	X		X	X		X		
109	T24-B	Oct 26, 2023		Soil	B23-Oc0068631	X		X	X		X		



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email: EnviroSales@eurofins.com

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
110	T24-W1	Oct 26, 2023		Soil	B23-Oc0068632	X		X	X		X		
111	T24-W2	Oct 26, 2023		Soil	B23-Oc0068633	X		X	X		X		
112	QC106	Oct 26, 2023		Soil	B23-Oc0068634			X	X		X		
113	QC107	Oct 26, 2023		Soil	B23-Oc0068635			X	X		X		
114	QC108	Oct 26, 2023		Soil	B23-Oc0068636			X	X		X		
115	QC109	Oct 26, 2023		Soil	B23-Oc0068637			X	X		X		
116	QC110	Oct 26, 2023		Soil	B23-Oc0068638			X	X		X		
117	QC111	Oct 26, 2023		Soil	B23-Oc0068639			X	X		X		
118	QC112	Oct 26, 2023		Soil	B23-Oc0068640			X	X		X		
119	QC113	Oct 26, 2023		Soil	B23-Oc0068641			X	X		X		
120	QC114	Oct 26, 2023		Soil	B23-Oc0068642			X	X		X		
121	QC115	Oct 26, 2023		Soil	B23-Oc0068643			X	X		X		
122	QC116	Oct 26, 2023		Soil	B23-Oc0068644			X	X		X		
123	QC117	Oct 26, 2023		Soil	B23-Oc0068645			X	X		X		



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Company Name:	Tetra Tech Coffey Environment Pty Ltd QLD	Order No.:		Received:	Oct 26, 2023 6:15 PM
Address:	Level 20, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	Report #:	1039102	Due:	Nov 3, 2023
		Phone:	+61 2 9406 1000	Priority:	5 Day
		Fax:	+61 2 9406 1004	Contact Name:	Jeremy Wicks
Project Name:	DVA Geenslopes				
Project ID:	278300				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
124	QC118	Oct 26, 2023		Soil	B23-Oc0068646			X	X		X		
125	QC119	Oct 26, 2023		Soil	B23-Oc0068647			X	X		X		
126	QC120	Oct 26, 2023		Soil	B23-Oc0068648			X	X		X		
127	QC121	Oct 26, 2023		Soil	B23-Oc0068649			X	X		X		
128	QC122	Oct 26, 2023		Water	B23-Oc0068650		X		X				
129	QC123	Oct 26, 2023		Water	B23-Oc0068651		X		X				
130	Trip Blank	Oct 26, 2023		Trip Blank (solid)	B23-Oc0068652			X					
Test Counts						111	124	124	123	6	127	6	6

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Jeremy Wicks
Report 1039102-AID
Project Name DVA Greenslopes
Project ID 278300
Received Date Oct 26, 2023
Date Reported Nov 09, 2023

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name DVA Greenslopes
Project ID 278300
Date Sampled Oct 26, 2023
Report 1039102-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
A1	23-Oc0068523	Oct 26, 2023	Approximate Sample 976g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A2	23-Oc0068524	Oct 26, 2023	Approximate Sample 900g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A3	23-Oc0068525	Oct 26, 2023	Approximate Sample 1127g Sample consisted of: Brown fine-grained clayey soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A4	23-Oc0068526	Oct 26, 2023	Approximate Sample 1081g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A5	23-Oc0068527	Oct 26, 2023	Approximate Sample 932g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A6	23-Oc0068528	Oct 26, 2023	Approximate Sample 915g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A7	23-Oc0068529	Oct 26, 2023	Approximate Sample 808g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A8	23-Oc0068530	Oct 26, 2023	Approximate Sample 983g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
A9	23-Oc0068531	Oct 26, 2023	Approximate Sample 1112g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
A10	23-Oc0068532	Oct 26, 2023	Approximate Sample 913g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B1	23-Oc0068533	Oct 26, 2023	Approximate Sample 1343g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B2	23-Oc0068534	Oct 26, 2023	Approximate Sample 895g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B3	23-Oc0068535	Oct 26, 2023	Approximate Sample 1189g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B4	23-Oc0068536	Oct 26, 2023	Approximate Sample 893g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B5	23-Oc0068537	Oct 26, 2023	Approximate Sample 962g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B6	23-Oc0068538	Oct 26, 2023	Approximate Sample 934g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B7	23-Oc0068539	Oct 26, 2023	Approximate Sample 1039g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B8	23-Oc0068540	Oct 26, 2023	Approximate Sample 973g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B9	23-Oc0068541	Oct 26, 2023	Approximate Sample 847g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
B10	23-Oc0068542	Oct 26, 2023	Approximate Sample 922g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C1	23-Oc0068543	Oct 26, 2023	Approximate Sample 1396g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
C2	23-Oc0068544	Oct 26, 2023	Approximate Sample 920g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C3	23-Oc0068545	Oct 26, 2023	Approximate Sample 695g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C4	23-Oc0068546	Oct 26, 2023	Approximate Sample 817g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C5	23-Oc0068547	Oct 26, 2023	Approximate Sample 1155g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C6	23-Oc0068548	Oct 26, 2023	Approximate Sample 864g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C7	23-Oc0068549	Oct 26, 2023	Approximate Sample 927g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C8	23-Oc0068550	Oct 26, 2023	Approximate Sample 895g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C9	23-Oc0068551	Oct 26, 2023	Approximate Sample 943g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
C10	23-Oc0068552	Oct 26, 2023	Approximate Sample 947g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D1	23-Oc0068553	Oct 26, 2023	Approximate Sample 468g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D2	23-Oc0068554	Oct 26, 2023	Approximate Sample 960g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D3	23-Oc0068555	Oct 26, 2023	Approximate Sample 1071g Sample consisted of: Brown fine-grained clayey soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D4	23-Oc0068556	Oct 26, 2023	Approximate Sample 968g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
D5	23-Oc0068557	Oct 26, 2023	Approximate Sample 1052g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D6	23-Oc0068558	Oct 26, 2023	Approximate Sample 1133g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D7	23-Oc0068559	Oct 26, 2023	Approximate Sample 1148g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D8	23-Oc0068560	Oct 26, 2023	Approximate Sample 784g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D9	23-Oc0068561	Oct 26, 2023	Approximate Sample 1031g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
D10	23-Oc0068562	Oct 26, 2023	Approximate Sample 758g Sample consisted of: Brown fine-grained clayey soil, cement, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E1	23-Oc0068563	Oct 26, 2023	Approximate Sample 820g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E2	23-Oc0068564	Oct 26, 2023	Approximate Sample 574g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E3	23-Oc0068565	Oct 26, 2023	Approximate Sample 566g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E4	23-Oc0068566	Oct 26, 2023	Approximate Sample 730g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E5	23-Oc0068567	Oct 26, 2023	Approximate Sample 827g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E6	23-Oc0068568	Oct 26, 2023	Approximate Sample 628g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E7	23-Oc0068569	Oct 26, 2023	Approximate Sample 865g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
E8	23-Oc0068570	Oct 26, 2023	Approximate Sample 757g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E9	23-Oc0068571	Oct 26, 2023	Approximate Sample 923g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
E10	23-Oc0068572	Oct 26, 2023	Approximate Sample 638g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F1	23-Oc0068573	Oct 26, 2023	Approximate Sample 726g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F2	23-Oc0068574	Oct 26, 2023	Approximate Sample 883g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F3	23-Oc0068575	Oct 26, 2023	Approximate Sample 638g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F4	23-Oc0068576	Oct 26, 2023	Approximate Sample 646g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F5	23-Oc0068577	Oct 26, 2023	Approximate Sample 702g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F6	23-Oc0068578	Oct 26, 2023	Approximate Sample 741g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F7	23-Oc0068579	Oct 26, 2023	Approximate Sample 771g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F8	23-Oc0068580	Oct 26, 2023	Approximate Sample 717g Sample consisted of: Brown fine-grained clayey soil, cement, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F9	23-Oc0068581	Oct 26, 2023	Approximate Sample 881g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
F10	23-Oc0068582	Oct 26, 2023	Approximate Sample 557g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
G1	23-Oc0068583	Oct 26, 2023	Approximate Sample 678g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G2	23-Oc0068584	Oct 26, 2023	Approximate Sample 491g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G3	23-Oc0068585	Oct 26, 2023	Approximate Sample 1038g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G4	23-Oc0068586	Oct 26, 2023	Approximate Sample 975g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G5	23-Oc0068587	Oct 26, 2023	Approximate Sample 959g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G6	23-Oc0068588	Oct 26, 2023	Approximate Sample 1038g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G7	23-Oc0068589	Oct 26, 2023	Approximate Sample 873g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G8	23-Oc0068590	Oct 26, 2023	Approximate Sample 792g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G9	23-Oc0068591	Oct 26, 2023	Approximate Sample 710g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
G10	23-Oc0068592	Oct 26, 2023	Approximate Sample 582g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H1	23-Oc0068593	Oct 26, 2023	Approximate Sample 634g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H2	23-Oc0068594	Oct 26, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil, coal, cement, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H3	23-Oc0068595	Oct 26, 2023	Approximate Sample 677g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
H4	23-Oc0068596	Oct 26, 2023	Approximate Sample 691g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H5	23-Oc0068597	Oct 26, 2023	Approximate Sample 737g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H6	23-Oc0068598	Oct 26, 2023	Approximate Sample 625g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H7	23-Oc0068599	Oct 26, 2023	Approximate Sample 689g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H8	23-Oc0068600	Oct 26, 2023	Approximate Sample 730g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H9	23-Oc0068601	Oct 26, 2023	Approximate Sample 597g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
H10	23-Oc0068602	Oct 26, 2023	Approximate Sample 622g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
HSB07	23-Oc0068603	Oct 26, 2023	Approximate Sample 399g Sample consisted of: Deep grey fine-grained clayey soil, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IF01	23-Oc0068604	Oct 26, 2023	Approximate Sample 981g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IF02	23-Oc0068605	Oct 26, 2023	Approximate Sample 979g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IF03	23-Oc0068606	Oct 26, 2023	Approximate Sample 857g Sample consisted of: Brown fine-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IF04	23-Oc0068607	Oct 26, 2023	Approximate Sample 655g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IF05	23-Oc0068608	Oct 26, 2023	Approximate Sample 734g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
IF06	23-Oc0068609	Oct 26, 2023	Approximate Sample 773g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T17-B	23-Oc0068610	Oct 26, 2023	Approximate Sample 650g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T17-W1	23-Oc0068611	Oct 26, 2023	Approximate Sample 832g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T17-W2	23-Oc0068612	Oct 26, 2023	Approximate Sample 596g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T18-B	23-Oc0068613	Oct 26, 2023	Approximate Sample 564g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T18-W1	23-Oc0068614	Oct 26, 2023	Approximate Sample 593g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T18-W2	23-Oc0068615	Oct 26, 2023	Approximate Sample 489g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T19-B	23-Oc0068616	Oct 26, 2023	Approximate Sample 601g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T19-W1	23-Oc0068617	Oct 26, 2023	Approximate Sample 693g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T19-W2	23-Oc0068618	Oct 26, 2023	Approximate Sample 507g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T20-B	23-Oc0068619	Oct 26, 2023	Approximate Sample 752g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T20-W1	23-Oc0068620	Oct 26, 2023	Approximate Sample 509g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T20-W2	23-Oc0068621	Oct 26, 2023	Approximate Sample 837g Sample consisted of: Brown fine-grained clayey soil, cement, plaster cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
T21-B	23-Oc0068622	Oct 26, 2023	Approximate Sample 597g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T21-W1	23-Oc0068623	Oct 26, 2023	Approximate Sample 512g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T21-W2	23-Oc0068624	Oct 26, 2023	Approximate Sample 432g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T22-B	23-Oc0068625	Oct 26, 2023	Approximate Sample 489g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T22-W1	23-Oc0068626	Oct 26, 2023	Approximate Sample 471g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T22-W2	23-Oc0068627	Oct 26, 2023	Approximate Sample 510g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23-B	23-Oc0068628	Oct 26, 2023	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23-W1	23-Oc0068629	Oct 26, 2023	Approximate Sample 454g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T23-W2	23-Oc0068630	Oct 26, 2023	Approximate Sample 581g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T24-B	23-Oc0068631	Oct 26, 2023	Approximate Sample 544g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T24-W1	23-Oc0068632	Oct 26, 2023	Approximate Sample 467g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
T24-W2	23-Oc0068633	Oct 26, 2023	Approximate Sample 490g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Oct 30, 2023	Indefinite

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
External Laboratory															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
1	A1	Oct 26, 2023		Soil	B23-Oc0068523	X		X		X		X			
2	A2	Oct 26, 2023		Soil	B23-Oc0068524	X		X		X		X			
3	A3	Oct 26, 2023		Soil	B23-Oc0068525	X		X		X		X			
4	A4	Oct 26, 2023		Soil	B23-Oc0068526	X		X		X		X			
5	A5	Oct 26, 2023		Soil	B23-Oc0068527	X		X		X		X			
6	A6	Oct 26, 2023		Soil	B23-Oc0068528	X		X		X		X			
7	A7	Oct 26, 2023		Soil	B23-Oc0068529	X		X		X		X			
8	A8	Oct 26, 2023		Soil	B23-Oc0068530	X		X		X		X			
9	A9	Oct 26, 2023		Soil	B23-Oc0068531	X		X		X		X			
10	A10	Oct 26, 2023		Soil	B23-Oc0068532	X		X		X		X			
11	B1	Oct 26, 2023		Soil	B23-Oc0068533	X		X		X		X			

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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
12	B2	Oct 26, 2023		Soil	B23-Oc0068534	X		X		X		X			
13	B3	Oct 26, 2023		Soil	B23-Oc0068535	X		X		X		X			
14	B4	Oct 26, 2023		Soil	B23-Oc0068536	X		X		X		X			
15	B5	Oct 26, 2023		Soil	B23-Oc0068537	X		X		X		X			
16	B6	Oct 26, 2023		Soil	B23-Oc0068538	X		X		X		X			
17	B7	Oct 26, 2023		Soil	B23-Oc0068539	X		X		X		X			
18	B8	Oct 26, 2023		Soil	B23-Oc0068540	X		X		X		X			
19	B9	Oct 26, 2023		Soil	B23-Oc0068541	X		X		X		X			
20	B10	Oct 26, 2023		Soil	B23-Oc0068542	X		X		X		X			
21	C1	Oct 26, 2023		Soil	B23-Oc0068543	X		X		X		X			
22	C2	Oct 26, 2023		Soil	B23-Oc0068544	X		X		X		X			
23	C3	Oct 26, 2023		Soil	B23-Oc0068545	X		X		X		X			
24	C4	Oct 26, 2023		Soil	B23-Oc0068546	X		X		X		X			
25	C5	Oct 26, 2023		Soil	B23-Oc0068547	X		X		X		X			

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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Project Name: DVA Greenslopes
Project ID: 278300

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
26	C6	Oct 26, 2023		Soil	B23-Oc0068548	X		X		X		X			
27	C7	Oct 26, 2023		Soil	B23-Oc0068549	X		X		X		X			
28	C8	Oct 26, 2023		Soil	B23-Oc0068550	X		X		X		X			
29	C9	Oct 26, 2023		Soil	B23-Oc0068551	X		X		X		X			
30	C10	Oct 26, 2023		Soil	B23-Oc0068552	X		X		X		X			
31	D1	Oct 26, 2023		Soil	B23-Oc0068553	X		X		X		X			
32	D2	Oct 26, 2023		Soil	B23-Oc0068554	X		X		X		X			
33	D3	Oct 26, 2023		Soil	B23-Oc0068555	X		X		X		X			
34	D4	Oct 26, 2023		Soil	B23-Oc0068556	X		X		X		X			
35	D5	Oct 26, 2023		Soil	B23-Oc0068557	X		X		X		X			
36	D6	Oct 26, 2023		Soil	B23-Oc0068558	X		X		X		X			
37	D7	Oct 26, 2023		Soil	B23-Oc0068559	X		X		X		X			
38	D8	Oct 26, 2023		Soil	B23-Oc0068560	X		X		X		X			
39	D9	Oct 26, 2023		Soil	B23-Oc0068561	X		X		X		X			

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NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
40	D10	Oct 26, 2023		Soil	B23-Oc0068562	X		X		X		X			
41	E1	Oct 26, 2023		Soil	B23-Oc0068563	X		X		X		X			
42	E2	Oct 26, 2023		Soil	B23-Oc0068564	X		X		X		X			
43	E3	Oct 26, 2023		Soil	B23-Oc0068565	X		X		X		X			
44	E4	Oct 26, 2023		Soil	B23-Oc0068566	X		X		X		X			
45	E5	Oct 26, 2023		Soil	B23-Oc0068567	X		X		X		X			
46	E6	Oct 26, 2023		Soil	B23-Oc0068568	X		X		X		X			
47	E7	Oct 26, 2023		Soil	B23-Oc0068569	X		X		X		X			
48	E8	Oct 26, 2023		Soil	B23-Oc0068570	X		X		X		X			
49	E9	Oct 26, 2023		Soil	B23-Oc0068571	X		X		X		X			
50	E10	Oct 26, 2023		Soil	B23-Oc0068572	X		X		X		X			
51	F1	Oct 26, 2023		Soil	B23-Oc0068573	X		X		X		X			
52	F2	Oct 26, 2023		Soil	B23-Oc0068574	X		X		X		X			
53	F3	Oct 26, 2023		Soil	B23-Oc0068575	X		X		X		X			

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Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
54	F4	Oct 26, 2023		Soil	B23-Oc0068576	X		X		X		X			
55	F5	Oct 26, 2023		Soil	B23-Oc0068577	X		X		X		X			
56	F6	Oct 26, 2023		Soil	B23-Oc0068578	X		X		X		X			
57	F7	Oct 26, 2023		Soil	B23-Oc0068579	X		X		X		X			
58	F8	Oct 26, 2023		Soil	B23-Oc0068580	X		X		X		X			
59	F9	Oct 26, 2023		Soil	B23-Oc0068581	X		X		X		X			
60	F10	Oct 26, 2023		Soil	B23-Oc0068582	X		X		X		X			
61	G1	Oct 26, 2023		Soil	B23-Oc0068583	X		X		X		X			
62	G2	Oct 26, 2023		Soil	B23-Oc0068584	X		X		X		X			
63	G3	Oct 26, 2023		Soil	B23-Oc0068585	X		X		X		X			
64	G4	Oct 26, 2023		Soil	B23-Oc0068586	X		X		X		X			
65	G5	Oct 26, 2023		Soil	B23-Oc0068587	X		X		X		X			
66	G6	Oct 26, 2023		Soil	B23-Oc0068588	X		X		X		X			
67	G7	Oct 26, 2023		Soil	B23-Oc0068589	X		X		X		X			

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
68	G8	Oct 26, 2023		Soil	B23-Oc0068590	X		X		X		X			
69	G9	Oct 26, 2023		Soil	B23-Oc0068591	X		X		X		X			
70	G10	Oct 26, 2023		Soil	B23-Oc0068592	X		X		X		X			
71	H1	Oct 26, 2023		Soil	B23-Oc0068593	X		X		X		X			
72	H2	Oct 26, 2023		Soil	B23-Oc0068594	X		X		X		X			
73	H3	Oct 26, 2023		Soil	B23-Oc0068595	X		X		X		X			
74	H4	Oct 26, 2023		Soil	B23-Oc0068596	X		X		X		X			
75	H5	Oct 26, 2023		Soil	B23-Oc0068597	X		X		X		X			
76	H6	Oct 26, 2023		Soil	B23-Oc0068598	X		X		X		X			
77	H7	Oct 26, 2023		Soil	B23-Oc0068599	X		X		X		X			
78	H8	Oct 26, 2023		Soil	B23-Oc0068600	X		X		X		X			
79	H9	Oct 26, 2023		Soil	B23-Oc0068601	X		X		X		X			
80	H10	Oct 26, 2023		Soil	B23-Oc0068602	X		X		X		X			
81	HSB07	Oct 26, 2023		Soil	B23-Oc0068603	X		X		X		X			

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
82	IF01	Oct 26, 2023		Soil	B23-Oc0068604	X					X	X	X		X
83	IF02	Oct 26, 2023		Soil	B23-Oc0068605	X					X	X	X		X
84	IF03	Oct 26, 2023		Soil	B23-Oc0068606	X					X	X	X		X
85	IF04	Oct 26, 2023		Soil	B23-Oc0068607	X					X	X	X		X
86	IF05	Oct 26, 2023		Soil	B23-Oc0068608	X					X	X	X		X
87	IF06	Oct 26, 2023		Soil	B23-Oc0068609	X					X	X	X		X
88	T17-B	Oct 26, 2023		Soil	B23-Oc0068610	X		X		X		X			
89	T17-W1	Oct 26, 2023		Soil	B23-Oc0068611	X		X		X		X			
90	T17-W2	Oct 26, 2023		Soil	B23-Oc0068612	X		X		X		X			
91	T18-B	Oct 26, 2023		Soil	B23-Oc0068613	X		X		X		X			
92	T18-W1	Oct 26, 2023		Soil	B23-Oc0068614	X		X		X		X			
93	T18-W2	Oct 26, 2023		Soil	B23-Oc0068615	X		X		X		X			
94	T19-B	Oct 26, 2023		Soil	B23-Oc0068616	X		X		X		X			
95	T19-W1	Oct 26, 2023		Soil	B23-Oc0068617	X		X		X		X			

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Perth
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Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
96	T19-W2	Oct 26, 2023		Soil	B23-Oc0068618	X		X		X		X			
97	T20-B	Oct 26, 2023		Soil	B23-Oc0068619	X		X		X		X			
98	T20-W1	Oct 26, 2023		Soil	B23-Oc0068620	X		X		X		X			
99	T20-W2	Oct 26, 2023		Soil	B23-Oc0068621	X		X		X		X			
100	T21-B	Oct 26, 2023		Soil	B23-Oc0068622	X		X		X		X			
101	T21-W1	Oct 26, 2023		Soil	B23-Oc0068623	X		X		X		X			
102	T21-W2	Oct 26, 2023		Soil	B23-Oc0068624	X		X		X		X			
103	T22-B	Oct 26, 2023		Soil	B23-Oc0068625	X		X		X		X			
104	T22-W1	Oct 26, 2023		Soil	B23-Oc0068626	X		X		X		X			
105	T22-W2	Oct 26, 2023		Soil	B23-Oc0068627	X		X		X		X			
106	T23-B	Oct 26, 2023		Soil	B23-Oc0068628	X		X		X		X			
107	T23-W1	Oct 26, 2023		Soil	B23-Oc0068629	X		X		X		X			
108	T23-W2	Oct 26, 2023		Soil	B23-Oc0068630	X		X		X		X			
109	T24-B	Oct 26, 2023		Soil	B23-Oc0068631	X		X		X		X			

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Order No.:
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Phone: +61 2 9406 1000
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Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
110	T24-W1	Oct 26, 2023		Soil	B23-Oc0068632	X		X		X		X			
111	T24-W2	Oct 26, 2023		Soil	B23-Oc0068633	X		X		X		X			
112	QC106	Oct 26, 2023		Soil	B23-Oc0068634			X		X		X			
113	QC107	Oct 26, 2023		Soil	B23-Oc0068635			X		X		X			
114	QC108	Oct 26, 2023		Soil	B23-Oc0068636			X		X		X			
115	QC109	Oct 26, 2023		Soil	B23-Oc0068637			X		X		X			
116	QC110	Oct 26, 2023		Soil	B23-Oc0068638			X		X		X			
117	QC111	Oct 26, 2023		Soil	B23-Oc0068639			X		X		X			
118	QC112	Oct 26, 2023		Soil	B23-Oc0068640			X		X		X			
119	QC113	Oct 26, 2023		Soil	B23-Oc0068641			X		X		X			
120	QC114	Oct 26, 2023		Soil	B23-Oc0068642			X		X		X			
121	QC115	Oct 26, 2023		Soil	B23-Oc0068643			X		X		X			
122	QC116	Oct 26, 2023		Soil	B23-Oc0068644			X		X		X			
123	QC117	Oct 26, 2023		Soil	B23-Oc0068645			X		X		X			

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Project ID: 278300

Order No.:
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Phone: +61 2 9406 1000
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Received: Oct 26, 2023 6:15 PM
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Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X									
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X	X	X
124	QC118	Oct 26, 2023		Soil	B23-Oc0068646			X		X		X			
125	QC119	Oct 26, 2023		Soil	B23-Oc0068647			X		X		X			
126	QC120	Oct 26, 2023		Soil	B23-Oc0068648			X		X		X			
127	QC121	Oct 26, 2023		Soil	B23-Oc0068649			X		X		X			
128	QC122	Oct 26, 2023		Water	B23-Oc0068650		X		X						
129	QC123	Oct 26, 2023		Water	B23-Oc0068651		X			X					
130	Trip Blank	Oct 26, 2023		Trip Blank (solid)	B23-Oc0068652									X	
Test Counts						111	123	123	123	123	6	127	6	1	6

Internal Quality Control Review and Glossary General

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

Holding Times

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

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

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

Calculations

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

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

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

Terms

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

Comments

23-Oc0068553, 23-Oc0068584, 23-Oc0068603, 23-Oc0068615, 23-Oc0068624 to 23-Oc0068626, 23-Oc0068629, 23-Oc0068632, 23-Oc0068633: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

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

Asbestos Counter/Identifier:

Laxman Dias Senior Analyst-Asbestos

Authorised by:

Sayed Abu Senior Analyst-Asbestos

Glenn Jackson
Managing Director

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Jeremy Wicks**

Report **1039102-S**
Project name **DVA Greenslopes**
Project ID **278300**
Received Date **Oct 26, 2023**

Client Sample ID			A1	A2	A3	A4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068523	B23- Oc0068524	B23- Oc0068525	B23- Oc0068526
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	107	INT	105	INT
Tetrachloro-m-xylene (surr.)	1	%	144	143	137	149
Heavy Metals						
Arsenic	2	mg/kg	6.2	4.2	5.9	8.2
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	99	82	130	86
Copper	5	mg/kg	34	17	22	10
Lead	5	mg/kg	< 5	12	16	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	29	36	23
Zinc	5	mg/kg	26	26	36	26

Client Sample ID			A1	A2	A3	A4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068523	B23- Oc0068524	B23- Oc0068525	B23- Oc0068526
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	7.0	3.1	2.6	5.8

Client Sample ID			A5	A6	A7	A8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068527	B23- Oc0068528	B23- Oc0068529	B23- Oc0068530
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	0.12	0.21	0.10	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.12	0.21	0.1	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.12	0.21	0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	94	INT	93	118
Tetrachloro-m-xylene (surr.)	1	%	145	150	146	INT
Heavy Metals						
Arsenic	2	mg/kg	11	13	18	17
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	130	130	100	130
Copper	5	mg/kg	23	18	19	18
Lead	5	mg/kg	9.9	12	43	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	37	36	31	37
Zinc	5	mg/kg	31	42	170	48
Sample Properties						
% Moisture	1	%	7.2	7.8	7.0	6.5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	A9 Soil B23- Oc0068531 Oct 26, 2023	A10 Soil B23- Oc0068532 Oct 26, 2023	B1 Soil B23- Oc0068533 Oct 26, 2023	B2 Soil B23- Oc0068534 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	106	INT	94	108
Tetrachloro-m-xylene (surr.)	1	%	INT	INT	INT	INT
Heavy Metals						
Arsenic	2	mg/kg	6.1	11	3.5	5.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	46	70	190	110
Copper	5	mg/kg	12	40	86	37
Lead	5	mg/kg	23	110	< 5	10
Mercury	0.1	mg/kg	< 0.1	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	16	19	59	38
Zinc	5	mg/kg	48	170	37	35
Sample Properties						
% Moisture	1	%	11	3.6	< 1	4.5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B3 Soil B23- Oc0068535 Oct 26, 2023	B4 Soil B23- Oc0068536 Oct 26, 2023	B5 Soil B23- Oc0068537 Oct 26, 2023	B6 Soil B23- Oc0068538 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	0.14	0.88
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	0.14	0.88
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.14	0.88
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorobenzene (surr.)	1	%	135	70	84	105
Tetrachloro-m-xylene (surr.)	1	%	INT	INT	134	127
Heavy Metals						
Arsenic	2	mg/kg	4.0	5.5	9.3	7.4
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	87	89	120	77
Copper	5	mg/kg	14	13	13	11
Lead	5	mg/kg	11	7.7	6.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	29	31	14
Zinc	5	mg/kg	31	31	25	21
Sample Properties						
% Moisture	1	%	1.8	3.2	2.1	1.8

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B7 Soil B23- Oc0068539 Oct 26, 2023	B8 Soil B23- Oc0068540 Oct 26, 2023	B9 Soil B23- Oc0068541 Oct 26, 2023	B10 Soil B23- Oc0068542 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	0.06	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	0.20	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	1.3	0.78	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	1.5	0.78	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.06	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	1.56	0.78	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	117	98	91	79
Tetrachloro-m-xylene (surr.)	1	%	INT	125	129	123
Heavy Metals						
Arsenic	2	mg/kg	6.6	7.1	2.5	3.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	78	100	79	94
Copper	5	mg/kg	11	25	8.8	15
Lead	5	mg/kg	13	19	< 5	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	27	17	34
Zinc	5	mg/kg	43	60	16	49
Sample Properties						
% Moisture	1	%	4.0	2.7	7.6	1.5

Client Sample ID			C1	C2	C3	C4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068543	B23- Oc0068544	B23- Oc0068545	B23- Oc0068546
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	0.05	0.98	0.30
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.05	0.98	0.3
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.98	0.3
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorobenzene (surr.)	1	%	81	89	122	105
Tetrachloro-m-xylene (surr.)	1	%	INT	INT	INT	INT
Heavy Metals						
Arsenic	2	mg/kg	2.0	2.6	< 2	3.6
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	110	120	47	30
Copper	5	mg/kg	35	33	< 5	5.8
Lead	5	mg/kg	< 5	< 5	5.7	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	33	32	15	6.8
Zinc	5	mg/kg	26	21	15	20
Sample Properties						
% Moisture	1	%	< 1	1.8	9.1	3.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	C5 Soil B23- Oc0068547 Oct 26, 2023	C6 Soil B23- Oc0068548 Oct 26, 2023	C7 Soil B23- Oc0068549 Oct 26, 2023	C8 Soil B23- Oc0068550 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	0.05	< 0.05	0.09	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	1.6	0.49	0.40	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	1.65	0.49	0.49	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	1.65	0.49	0.49	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorobenzene (surr.)	1	%	77	93	85	98
Tetrachloro-m-xylene (surr.)	1	%	INT	INT	137	73
Heavy Metals						
Arsenic	2	mg/kg	10	10.0	9.5	8.5
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	72	100	130	110
Copper	5	mg/kg	17	20	17	20
Lead	5	mg/kg	41	18	9.6	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	26	34	35
Zinc	5	mg/kg	74	48	36	59
Sample Properties						
% Moisture	1	%	< 1	2.8	3.8	4.5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	C9 Soil B23- Oc0068551 Oct 26, 2023	C10 Soil B23- Oc0068552 Oct 26, 2023	D1 Soil B23- Oc0068553 Oct 26, 2023	D2 Soil B23- Oc0068554 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	0.18	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	0.18	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.18	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	100	96	121	126
Tetrachloro-m-xylene (surr.)	1	%	141	141	INT	INT
Heavy Metals						
Arsenic	2	mg/kg	5.9	6.8	2.6	4.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	110	46	64	47
Copper	5	mg/kg	14	9.1	8.2	5.4
Lead	5	mg/kg	16	43	7.2	8.0
Mercury	0.1	mg/kg	< 0.1	5.7	< 0.1	< 0.1
Nickel	5	mg/kg	26	9.7	23	15
Zinc	5	mg/kg	47	69	23	43
Sample Properties						
% Moisture	1	%	3.2	4.8	9.2	6.8

Client Sample ID			D3	D4	D5	D6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068555	B23- Oc0068556	B23- Oc0068557	B23- Oc0068558
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.5	5.2	1.4	0.7
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.08
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.5	5.27	1.4	0.78
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.5	5.27	1.4	0.78
Dibutylchlorendate (surr.)	1	%	96	54	55	52
Tetrachloro-m-xylene (surr.)	1	%	136	133	INT	150
Heavy Metals						
Arsenic	2	mg/kg	3.6	4.3	5.7	7.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	100	150	110	88
Copper	5	mg/kg	13	20	16	12
Lead	5	mg/kg	9.2	7.3	6.2	5.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	40	70	46	21
Zinc	5	mg/kg	46	42	25	20
Sample Properties						
% Moisture	1	%	2.6	2.1	3.8	6.5

Client Sample ID			D7	D8	D9	D10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068559	B23- Oc0068560	B23- Oc0068561	B23- Oc0068562
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	1.5	6.2	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	0.06	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	1.5	6.26	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	1.5	6.26	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	124	INT	133	119
Tetrachloro-m-xylene (surr.)	1	%	126	INT	136	137
Heavy Metals						
Arsenic	2	mg/kg	12	14	8.8	6.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	110	190	110	38
Copper	5	mg/kg	17	23	20	18
Lead	5	mg/kg	27	< 5	50	50
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	28	60	28	13
Zinc	5	mg/kg	79	42	120	230
Sample Properties						
% Moisture	1	%	3.3	3.3	12	1.5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	E1 Soil B23- Oc0068563 Oct 26, 2023	E2 Soil B23- Oc0068564 Oct 26, 2023	E3 Soil B23- Oc0068565 Oct 26, 2023	E4 Soil B23- Oc0068566 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	0.7	1.6
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.7	1.6
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.7	1.6
Dibutylchlorendate (surr.)	1	%	92	102	112	99
Tetrachloro-m-xylene (surr.)	1	%	128	127	136	132
Heavy Metals						
Arsenic	2	mg/kg	6.6	3.8	4.0	7.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	71	130	66	130
Copper	5	mg/kg	11	20	19	15
Lead	5	mg/kg	12	5.8	30	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	38	95	34	43
Zinc	5	mg/kg	45	53	78	48
Sample Properties						
% Moisture	1	%	2.1	6.2	3.6	3.1

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	E5 Soil B23- Oc0068567 Oct 26, 2023	E6 Soil B23- Oc0068568 Oct 26, 2023	E7 Soil B23- Oc0068569 Oct 26, 2023	E8 Soil B23- Oc0068570 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.4	< 0.1	0.8	0.8
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	0.09	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.4	< 0.1	0.89	0.8
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.4	< 0.1	0.89	0.8
Dibutylchlorendate (surr.)	1	%	109	108	61	97
Tetrachloro-m-xylene (surr.)	1	%	131	139	141	133
Heavy Metals						
Arsenic	2	mg/kg	5.0	8.4	12	8.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	73	120	120	91
Copper	5	mg/kg	14	22	20	15
Lead	5	mg/kg	10	< 5	12	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	35	31	26
Zinc	5	mg/kg	25	26	44	41
Sample Properties						
% Moisture	1	%	1.7	5.5	1.0	5.5

Client Sample ID			E9	E10	F1	F2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068571	B23- Oc0068572	B23- Oc0068573	B23- Oc0068574
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.1	0.1
Dibutylchlorobenzene (surr.)	1	%	92	94	INT	97
Tetrachloro-m-xylene (surr.)	1	%	143	123	INT	118
Heavy Metals						
Arsenic	2	mg/kg	6.9	8.9	< 2	2.3
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	38	86	74	83
Copper	5	mg/kg	7.4	17	9.6	26
Lead	5	mg/kg	10	14	6.2	5.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.8	20	20	35
Zinc	5	mg/kg	30	50	34	36
Sample Properties						
% Moisture	1	%	1.1	< 1	4.2	5.1

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference			F3 Soil B23- Oc0068575 Oct 26, 2023	F4 Soil B23- Oc0068576 Oct 26, 2023	F5 Soil B23- Oc0068577 Oct 26, 2023	F6 Soil B23- Oc0068578 Oct 26, 2023
	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.1	1.4	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.1	1.4	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	0.1	1.4	< 0.1
Dibutylchlorendate (surr.)	1	%	82	88	94	88
Tetrachloro-m-xylene (surr.)	1	%	120	138	141	128
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.1	5.2	7.1
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	57	69	61	79
Copper	5	mg/kg	8.1	9.2	13	8.1
Lead	5	mg/kg	< 5	6.3	20	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	27	29	22	24
Zinc	5	mg/kg	21	23	34	21
Sample Properties						
% Moisture	1	%	22	8.7	1.7	9.2

Client Sample ID			F7	F8	F9	F10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068579	B23- Oc0068580	B23- Oc0068581	B23- Oc0068582
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	0.09	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	0.07	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.09	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.21	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	91	86	134	121
Tetrachloro-m-xylene (surr.)	1	%	133	65	INT	135
Heavy Metals						
Arsenic	2	mg/kg	8.5	10	9.8	8.3
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	91	100	62	150
Copper	5	mg/kg	16	16	13	22
Lead	5	mg/kg	13	77	16	8.2
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	28	16	34
Zinc	5	mg/kg	34	50	43	40
Sample Properties						
% Moisture	1	%	1.5	5.7	1.9	2.6

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	G1 Soil B23- Oc0068583 Oct 26, 2023	G2 Soil B23- Oc0068584 Oct 26, 2023	G3 Soil B23- Oc0068585 Oct 26, 2023	G4 Soil B23- Oc0068586 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	87	84	INT	INT
Tetrachloro-m-xylene (surr.)	1	%	128	141	INT	120
Heavy Metals						
Arsenic	2	mg/kg	3.7	2.7	3.3	8.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	53	89	130	88
Copper	5	mg/kg	8.8	16	56	19
Lead	5	mg/kg	10.0	< 5	< 5	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	44	39	39
Zinc	5	mg/kg	36	31	38	54
Sample Properties						
% Moisture	1	%	1.5	5.6	2.6	5.3

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference			G5 Soil B23- Oc0068587 Oct 26, 2023	G6 Soil B23- Oc0068588 Oct 26, 2023	G7 Soil B23- Oc0068589 Oct 26, 2023	G8 Soil B23- Oc0068590 Oct 26, 2023
	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.5	0.4	0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.5	0.4	0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	0.5	0.4	0.1
Dibutylchlorendate (surr.)	1	%	122	130	132	103
Tetrachloro-m-xylene (surr.)	1	%	139	146	136	128
Heavy Metals						
Arsenic	2	mg/kg	5.3	8.0	8.8	11
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	70	84	91	110
Copper	5	mg/kg	10	17	23	22
Lead	5	mg/kg	8.6	23	14	6.7
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	26	31	30	25
Zinc	5	mg/kg	35	69	47	31
Sample Properties						
% Moisture	1	%	2.6	2.8	1.5	5.1

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	G9 Soil B23- Oc0068591 Oct 26, 2023	G10 Soil B23- Oc0068592 Oct 26, 2023	H1 Soil B23- Oc0068593 Oct 26, 2023	H2 Soil B23- Oc0068594 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.4
Dibutylchlorendate (surr.)	1	%	99	102	103	98
Tetrachloro-m-xylene (surr.)	1	%	142	INT	138	138
Heavy Metals						
Arsenic	2	mg/kg	9.6	7.4	3.7	4.7
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	130	140	85	41
Copper	5	mg/kg	34	16	18	12
Lead	5	mg/kg	7.5	< 5	21	5.4
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	41	36	26
Zinc	5	mg/kg	36	32	350	90
Sample Properties						
% Moisture	1	%	3.8	5.0	2.3	4.3

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	H3 Soil B23- Oc0068595 Oct 26, 2023	H4 Soil B23- Oc0068596 Oct 26, 2023	H5 Soil B23- Oc0068597 Oct 26, 2023	H6 Soil B23- Oc0068598 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.1	< 0.1	1.0
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.1	< 0.1	1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	0.1	< 0.1	1
Dibutylchlorendate (surr.)	1	%	76	INT	INT	INT
Tetrachloro-m-xylene (surr.)	1	%	INT	INT	145	144
Heavy Metals						
Arsenic	2	mg/kg	2.6	5.4	6.3	12
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	43	50	71	76
Copper	5	mg/kg	8.0	9.3	11	13
Lead	5	mg/kg	6.8	16	9.1	68
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	21	28	33	26
Zinc	5	mg/kg	33	50	29	110
Sample Properties						
% Moisture	1	%	2.3	6.3	3.4	1.6

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	H7 Soil B23- Oc0068599 Oct 26, 2023	H8 Soil B23- Oc0068600 Oct 26, 2023	H9 Soil B23- Oc0068601 Oct 26, 2023	H10 Soil B23- Oc0068602 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.8	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.8	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.8	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	INT	INT	INT	97
Tetrachloro-m-xylene (surr.)	1	%	148	INT	145	INT
Heavy Metals						
Arsenic	2	mg/kg	8.1	15	16	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	74	87	130	180
Copper	5	mg/kg	9.4	14	18	27
Lead	5	mg/kg	8.9	9.7	13	13
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	21	29	61
Zinc	5	mg/kg	32	28	48	61
Sample Properties						
% Moisture	1	%	1.8	1.1	2.3	2.9

Client Sample ID			HSB07	IF01	IF02	IF03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068603	B23- Oc0068604	B23- Oc0068605	B23- Oc0068606
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	INT	102	76	76
Tetrachloro-m-xylene (surr.)	1	%	INT	143	129	141
Heavy Metals						
Arsenic	2	mg/kg	8.1	-	-	-
Cadmium	0.5	mg/kg	< 0.5	-	-	-
Chromium	5	mg/kg	37	-	-	-
Copper	5	mg/kg	23	-	-	-
Lead	5	mg/kg	92	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	16	-	-	-
Zinc	5	mg/kg	460	-	-	-
Sample Properties						
% Moisture	1	%	3.2	2.4	< 1	< 1
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2

Client Sample ID			HSB07	IF01	IF02	IF03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068603	B23- Oc0068604	B23- Oc0068605	B23- Oc0068606
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	83	82	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	117	110	110
p-Terphenyl-d14 (surr.)	1	%	-	117	120	118
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	-	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2

Client Sample ID			HSB07	IF01	IF02	IF03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068603	B23- Oc0068604	B23- Oc0068605	B23- Oc0068606
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Fensulfothion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	-	< 2	< 2	< 2
Naled	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	-	< 2	< 2	< 2
Phorate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	-	72	61	65
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	-	74	71	81
13C5-PFPeA (surr.)	1	%	-	83	83	80
13C5-PFHxA (surr.)	1	%	-	63	62	69
13C4-PFHpA (surr.)	1	%	-	78	71	79
13C8-PFOA (surr.)	1	%	-	64	69	79
13C5-PFNA (surr.)	1	%	-	75	69	82
13C6-PFDA (surr.)	1	%	-	78	76	93
13C2-PFUnDA (surr.)	1	%	-	101	98	121
13C2-PFDoDA (surr.)	1	%	-	75	86	98
13C2-PFTeDA (surr.)	1	%	-	114	119	108

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	HSB07 Soil B23- Oc0068603 Oct 26, 2023	IF01 Soil B23- Oc0068604 Oct 26, 2023	IF02 Soil B23- Oc0068605 Oct 26, 2023	IF03 Soil B23- Oc0068606 Oct 26, 2023
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	-	24	93	59
D3-N-MeFOSA (surr.)	1	%	-	58	62	78
D5-N-EtFOSA (surr.)	1	%	-	52	57	52
D7-N-MeFOSE (surr.)	1	%	-	49	46	69
D9-N-EtFOSE (surr.)	1	%	-	61	58	65
D5-N-EtFOSAA (surr.)	1	%	-	91	88	106
D3-N-MeFOSAA (surr.)	1	%	-	97	98	119
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	-	82	94	93
18O2-PFHxS (surr.)	1	%	-	72	59	76
13C8-PFOS (surr.)	1	%	-	57	71	75
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	37	63	74
13C2-6:2 FTSA (surr.)	1	%	-	71	85	106
13C2-8:2 FTSA (surr.)	1	%	-	60	71	110
13C2-10:2 FTSA (surr.)	1	%	-	71	98	102
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	< 50	< 50

Client Sample ID			IF04	IF05	IF06	T17-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068607	B23- Oc0068608	B23- Oc0068609	B23- Oc0068610
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	87	86	85	118
Tetrachloro-m-xylene (surr.)	1	%	123	126	148	INT
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	11
Cadmium	0.5	mg/kg	-	-	-	< 0.5
Chromium	5	mg/kg	-	-	-	190
Copper	5	mg/kg	-	-	-	32
Lead	5	mg/kg	-	-	-	5.5
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	72
Zinc	5	mg/kg	-	-	-	54
Sample Properties						
% Moisture	1	%	< 1	3.0	2.8	4.4
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-

Client Sample ID			IF04	IF05	IF06	T17-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068607	B23- Oc0068608	B23- Oc0068609	B23- Oc0068610
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	83	83	80	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	110	99	111	-
p-Terphenyl-d14 (surr.)	1	%	119	112	129	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	< 2	< 2	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-

Client Sample ID			IF04	IF05	IF06	T17-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068607	B23- Oc0068608	B23- Oc0068609	B23- Oc0068610
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	< 2	< 2	< 2	-
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Omethoate	2	mg/kg	< 2	< 2	< 2	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	65	62	60	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
13C4-PFBA (surr.)	1	%	80	71	68	-
13C5-PFPeA (surr.)	1	%	81	77	70	-
13C5-PFHxA (surr.)	1	%	74	62	57	-
13C4-PFHpA (surr.)	1	%	83	70	73	-
13C8-PFOA (surr.)	1	%	74	66	59	-
13C5-PFNA (surr.)	1	%	78	70	60	-
13C6-PFDA (surr.)	1	%	85	76	71	-
13C2-PFUnDA (surr.)	1	%	115	93	85	-
13C2-PFDoDA (surr.)	1	%	84	79	65	-
13C2-PFTeDA (surr.)	1	%	100	84	66	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	IF04 Soil B23- Oc0068607 Oct 26, 2023	IF05 Soil B23- Oc0068608 Oct 26, 2023	IF06 Soil B23- Oc0068609 Oct 26, 2023	T17-B Soil B23- Oc0068610 Oct 26, 2023
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
13C8-FOSA (surr.)	1	%	73	46	77	-
D3-N-MeFOSA (surr.)	1	%	68	62	65	-
D5-N-EtFOSA (surr.)	1	%	57	58	48	-
D7-N-MeFOSE (surr.)	1	%	57	69	39	-
D9-N-EtFOSE (surr.)	1	%	67	52	55	-
D5-N-EtFOSAA (surr.)	1	%	97	89	74	-
D3-N-MeFOSAA (surr.)	1	%	111	98	86	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
13C3-PFBS (surr.)	1	%	95	92	86	-
18O2-PFHxS (surr.)	1	%	83	64	67	-
13C8-PFOS (surr.)	1	%	74	64	70	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	63	76	71	-
13C2-6:2 FTSA (surr.)	1	%	50	39	110	-
13C2-8:2 FTSA (surr.)	1	%	136	54	61	-
13C2-10:2 FTSA (surr.)	1	%	94	73	85	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	-

Client Sample ID			T17-W1	T17-W2	T18-B	T18-W1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068611	B23- Oc0068612	B23- Oc0068613	B23- Oc0068614
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	1.1	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.10
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	1.1	< 0.05	0.1
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	1.1	< 0.1	0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	125	INT	117	109
Tetrachloro-m-xylene (surr.)	1	%	129	147	144	134
Heavy Metals						
Arsenic	2	mg/kg	8.4	9.2	14	16
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	120	160	220	160
Copper	5	mg/kg	10	28	31	20
Lead	5	mg/kg	7.3	13	11	39
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	50	73	37
Zinc	5	mg/kg	19	59	53	48
Sample Properties						
% Moisture	1	%	1.8	3.5	3.3	3.2

Client Sample ID			T18-W2	T19-B	T19-W1	T19-W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068615	B23- Oc0068616	B23- Oc0068617	B23- Oc0068618
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	133	64	52	57
Tetrachloro-m-xylene (surr.)	1	%	147	134	INT	137
Heavy Metals						
Arsenic	2	mg/kg	9.9	6.7	6.6	13
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	150	140	170
Copper	5	mg/kg	21	24	13	40
Lead	5	mg/kg	7.6	6.3	9.2	90
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	53	51	28	57
Zinc	5	mg/kg	31	43	36	610
Sample Properties						
% Moisture	1	%	6.6	6.3	1.4	2.1

Client Sample ID			T20-B	T20-W1	T20-W2	T21-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068619	B23- Oc0068620	B23- Oc0068621	B23- Oc0068622
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	0.3	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.3	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.3	< 0.1
Dibutylchlorobenzene (surr.)	1	%	58	56	67	122
Tetrachloro-m-xylene (surr.)	1	%	INT	149	146	138
Heavy Metals						
Arsenic	2	mg/kg	7.2	14	5.0	17
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	160	76	220
Copper	5	mg/kg	20	23	15	34
Lead	5	mg/kg	< 5	35	93	5.5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	38	30	22	83
Zinc	5	mg/kg	36	76	110	53
Sample Properties						
% Moisture	1	%	2.8	1.7	1.2	5.8

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	T21-W1 Soil B23- Oc0068623 Oct 26, 2023	T21-W2 Soil B23- Oc0068624 Oct 26, 2023	T22-B Soil B23- Oc0068625 Oct 26, 2023	T22-W1 Soil B23- Oc0068626 Oct 26, 2023
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	0.7	1.6
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	0.08	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.78	1.6
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.78	1.6
Dibutylchlorendate (surr.)	1	%	123	54	56	59
Tetrachloro-m-xylene (surr.)	1	%	134	139	INT	INT
Heavy Metals						
Arsenic	2	mg/kg	13	10	7.7	12
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	170	170	160	150
Copper	5	mg/kg	22	22	22	19
Lead	5	mg/kg	5.1	< 5	< 5	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	51	46	47	44
Zinc	5	mg/kg	33	26	39	53
Sample Properties						
% Moisture	1	%	3.5	5.6	4.4	4.4

Client Sample ID			T22-W2	T23-B	T23-W1	T23-W2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068627	B23- Oc0068628	B23- Oc0068629	B23- Oc0068630
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	53	54	53	105
Tetrachloro-m-xylene (surr.)	1	%	122	138	INT	91
Heavy Metals						
Arsenic	2	mg/kg	6.3	9.8	14	9.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	110	140	170	150
Copper	5	mg/kg	9.9	25	24	24
Lead	5	mg/kg	< 5	< 5	< 5	7.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	43	45	44
Zinc	5	mg/kg	22	36	32	46
Sample Properties						
% Moisture	1	%	2.1	6.7	4.7	4.4

Client Sample ID			T24-B	T24-W1	T24-W2	QC106
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068631	B23- Oc0068632	B23- Oc0068633	B23- Oc0068634
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	117	55	54	90
Tetrachloro-m-xylene (surr.)	1	%	122	134	INT	146
Heavy Metals						
Arsenic	2	mg/kg	16	10	12	2.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	170	94	150	120
Copper	5	mg/kg	25	9.3	23	30
Lead	5	mg/kg	5.6	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	66	17	49	32
Zinc	5	mg/kg	39	16	28	28
Sample Properties						
% Moisture	1	%	5.3	3.4	5.0	5.2

Client Sample ID			QC107	QC108	QC109	QC110
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068635	B23- Oc0068636	B23- Oc0068637	B23- Oc0068638
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Dibutylchlorendate (surr.)	1	%	103	111	103	104
Tetrachloro-m-xylene (surr.)	1	%	130	120	120	132
Heavy Metals						
Arsenic	2	mg/kg	2.5	5.3	4.9	4.6
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	120	49	120	67
Copper	5	mg/kg	27	9.1	16	7.1
Lead	5	mg/kg	5.0	22	9.2	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	32	18	51	20
Zinc	5	mg/kg	28	36	30	16
Sample Properties						
% Moisture	1	%	3.0	5.9	5.4	1.6

Client Sample ID			QC111	QC112	QC113	QC114
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068639	B23- Oc0068640	B23- Oc0068641	B23- Oc0068642
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	0.2	0.2	0.2	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.2	0.2	0.2	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.2	0.2	0.2	< 0.1
Dibutylchlorendate (surr.)	1	%	107	110	118	102
Tetrachloro-m-xylene (surr.)	1	%	130	131	132	132
Heavy Metals						
Arsenic	2	mg/kg	4.6	9.7	7.4	15
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	68	100	87	160
Copper	5	mg/kg	5.9	20	25	17
Lead	5	mg/kg	< 5	11	11	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	37	27	32
Zinc	5	mg/kg	15	63	45	34
Sample Properties						
% Moisture	1	%	1.4	3.1	1.0	2.0

Client Sample ID			QC115	QC116	QC117	QC118
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0068643	B23- Oc0068644	B23- Oc0068645	B23- Oc0068646
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	150	104	110	115
Tetrachloro-m-xylene (surr.)	1	%	104	119	117	128
Heavy Metals						
Arsenic	2	mg/kg	14	7.7	8.0	3.8
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	47	81	73
Copper	5	mg/kg	15	18	22	14
Lead	5	mg/kg	9.4	54	34	13
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	33	16	27	36
Zinc	5	mg/kg	46	210	120	46
Sample Properties						
% Moisture	1	%	6.3	8.0	13	2.7

Client Sample ID			QC119	QC120	QC121	Trip Blank
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B23- Oc0068647	B23- Oc0068648	B23- Oc0068649	B23- Oc0068652
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 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	0.15	0.07	-
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	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	0.15	0.07	-
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	0.15	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	124	104	108	-
Tetrachloro-m-xylene (surr.)	1	%	123	132	124	-
Heavy Metals						
Arsenic	2	mg/kg	3.6	10	9.9	-
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chromium	5	mg/kg	88	120	140	-
Copper	5	mg/kg	16	18	22	-
Lead	5	mg/kg	12	15	7.1	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	44	33	41	-
Zinc	5	mg/kg	50	40	42	-
Sample Properties						
% Moisture	1	%	3.1	2.7	2.5	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	90

Client Sample ID			QC119	QC120	QC121	Trip Blank
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B23- Oc0068647	B23- Oc0068648	B23- Oc0068649	B23- Oc0068652
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	-	-	< 20

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	Brisbane	Nov 02, 2023	14 Days
- Method: LTM-ORG-2220 OCP and PCB in Soil and Water			
Organophosphorus Pesticides	Brisbane	Nov 02, 2023	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Metals M8	Brisbane	Nov 01, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Brisbane	Oct 28, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Brisbane	Nov 06, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Brisbane	Nov 06, 2023	14 Days
- Method: USEPA SW846 8260			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Brisbane	Oct 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Naphthalene	Brisbane	Nov 06, 2023	14 Days
- Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS			
Total Recoverable Hydrocarbons	Brisbane	Nov 06, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Brisbane	Oct 30, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Brisbane	Oct 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Oct 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Oct 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Oct 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Oct 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	A1	Oct 26, 2023		Soil	B23-Oc0068523	X		X	X		X		
2	A2	Oct 26, 2023		Soil	B23-Oc0068524	X		X	X		X		
3	A3	Oct 26, 2023		Soil	B23-Oc0068525	X		X	X		X		
4	A4	Oct 26, 2023		Soil	B23-Oc0068526	X		X	X		X		
5	A5	Oct 26, 2023		Soil	B23-Oc0068527	X		X	X		X		
6	A6	Oct 26, 2023		Soil	B23-Oc0068528	X		X	X		X		
7	A7	Oct 26, 2023		Soil	B23-Oc0068529	X		X	X		X		
8	A8	Oct 26, 2023		Soil	B23-Oc0068530	X		X	X		X		
9	A9	Oct 26, 2023		Soil	B23-Oc0068531	X		X	X		X		
10	A10	Oct 26, 2023		Soil	B23-Oc0068532	X		X	X		X		
11	B1	Oct 26, 2023		Soil	B23-Oc0068533	X		X	X		X		

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Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
12	B2	Oct 26, 2023		Soil	B23-Oc0068534	X		X	X		X		
13	B3	Oct 26, 2023		Soil	B23-Oc0068535	X		X	X		X		
14	B4	Oct 26, 2023		Soil	B23-Oc0068536	X		X	X		X		
15	B5	Oct 26, 2023		Soil	B23-Oc0068537	X		X	X		X		
16	B6	Oct 26, 2023		Soil	B23-Oc0068538	X		X	X		X		
17	B7	Oct 26, 2023		Soil	B23-Oc0068539	X		X	X		X		
18	B8	Oct 26, 2023		Soil	B23-Oc0068540	X		X	X		X		
19	B9	Oct 26, 2023		Soil	B23-Oc0068541	X		X	X		X		
20	B10	Oct 26, 2023		Soil	B23-Oc0068542	X		X	X		X		
21	C1	Oct 26, 2023		Soil	B23-Oc0068543	X		X	X		X		
22	C2	Oct 26, 2023		Soil	B23-Oc0068544	X		X	X		X		
23	C3	Oct 26, 2023		Soil	B23-Oc0068545	X		X	X		X		
24	C4	Oct 26, 2023		Soil	B23-Oc0068546	X		X	X		X		
25	C5	Oct 26, 2023		Soil	B23-Oc0068547	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
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Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
26	C6	Oct 26, 2023		Soil	B23-Oc0068548	X		X	X		X		
27	C7	Oct 26, 2023		Soil	B23-Oc0068549	X		X	X		X		
28	C8	Oct 26, 2023		Soil	B23-Oc0068550	X		X	X		X		
29	C9	Oct 26, 2023		Soil	B23-Oc0068551	X		X	X		X		
30	C10	Oct 26, 2023		Soil	B23-Oc0068552	X		X	X		X		
31	D1	Oct 26, 2023		Soil	B23-Oc0068553	X		X	X		X		
32	D2	Oct 26, 2023		Soil	B23-Oc0068554	X		X	X		X		
33	D3	Oct 26, 2023		Soil	B23-Oc0068555	X		X	X		X		
34	D4	Oct 26, 2023		Soil	B23-Oc0068556	X		X	X		X		
35	D5	Oct 26, 2023		Soil	B23-Oc0068557	X		X	X		X		
36	D6	Oct 26, 2023		Soil	B23-Oc0068558	X		X	X		X		
37	D7	Oct 26, 2023		Soil	B23-Oc0068559	X		X	X		X		
38	D8	Oct 26, 2023		Soil	B23-Oc0068560	X		X	X		X		
39	D9	Oct 26, 2023		Soil	B23-Oc0068561	X		X	X		X		

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Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
40	D10	Oct 26, 2023		Soil	B23-Oc0068562	X		X	X		X		
41	E1	Oct 26, 2023		Soil	B23-Oc0068563	X		X	X		X		
42	E2	Oct 26, 2023		Soil	B23-Oc0068564	X		X	X		X		
43	E3	Oct 26, 2023		Soil	B23-Oc0068565	X		X	X		X		
44	E4	Oct 26, 2023		Soil	B23-Oc0068566	X		X	X		X		
45	E5	Oct 26, 2023		Soil	B23-Oc0068567	X		X	X		X		
46	E6	Oct 26, 2023		Soil	B23-Oc0068568	X		X	X		X		
47	E7	Oct 26, 2023		Soil	B23-Oc0068569	X		X	X		X		
48	E8	Oct 26, 2023		Soil	B23-Oc0068570	X		X	X		X		
49	E9	Oct 26, 2023		Soil	B23-Oc0068571	X		X	X		X		
50	E10	Oct 26, 2023		Soil	B23-Oc0068572	X		X	X		X		
51	F1	Oct 26, 2023		Soil	B23-Oc0068573	X		X	X		X		
52	F2	Oct 26, 2023		Soil	B23-Oc0068574	X		X	X		X		
53	F3	Oct 26, 2023		Soil	B23-Oc0068575	X		X	X		X		

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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
54	F4	Oct 26, 2023		Soil	B23-Oc0068576	X		X	X		X		
55	F5	Oct 26, 2023		Soil	B23-Oc0068577	X		X	X		X		
56	F6	Oct 26, 2023		Soil	B23-Oc0068578	X		X	X		X		
57	F7	Oct 26, 2023		Soil	B23-Oc0068579	X		X	X		X		
58	F8	Oct 26, 2023		Soil	B23-Oc0068580	X		X	X		X		
59	F9	Oct 26, 2023		Soil	B23-Oc0068581	X		X	X		X		
60	F10	Oct 26, 2023		Soil	B23-Oc0068582	X		X	X		X		
61	G1	Oct 26, 2023		Soil	B23-Oc0068583	X		X	X		X		
62	G2	Oct 26, 2023		Soil	B23-Oc0068584	X		X	X		X		
63	G3	Oct 26, 2023		Soil	B23-Oc0068585	X		X	X		X		
64	G4	Oct 26, 2023		Soil	B23-Oc0068586	X		X	X		X		
65	G5	Oct 26, 2023		Soil	B23-Oc0068587	X		X	X		X		
66	G6	Oct 26, 2023		Soil	B23-Oc0068588	X		X	X		X		
67	G7	Oct 26, 2023		Soil	B23-Oc0068589	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
68	G8	Oct 26, 2023		Soil	B23-Oc0068590	X		X	X		X		
69	G9	Oct 26, 2023		Soil	B23-Oc0068591	X		X	X		X		
70	G10	Oct 26, 2023		Soil	B23-Oc0068592	X		X	X		X		
71	H1	Oct 26, 2023		Soil	B23-Oc0068593	X		X	X		X		
72	H2	Oct 26, 2023		Soil	B23-Oc0068594	X		X	X		X		
73	H3	Oct 26, 2023		Soil	B23-Oc0068595	X		X	X		X		
74	H4	Oct 26, 2023		Soil	B23-Oc0068596	X		X	X		X		
75	H5	Oct 26, 2023		Soil	B23-Oc0068597	X		X	X		X		
76	H6	Oct 26, 2023		Soil	B23-Oc0068598	X		X	X		X		
77	H7	Oct 26, 2023		Soil	B23-Oc0068599	X		X	X		X		
78	H8	Oct 26, 2023		Soil	B23-Oc0068600	X		X	X		X		
79	H9	Oct 26, 2023		Soil	B23-Oc0068601	X		X	X		X		
80	H10	Oct 26, 2023		Soil	B23-Oc0068602	X		X	X		X		
81	HSB07	Oct 26, 2023		Soil	B23-Oc0068603	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
82	IF01	Oct 26, 2023		Soil	B23-Oc0068604	X				X	X	X	X
83	IF02	Oct 26, 2023		Soil	B23-Oc0068605	X				X	X	X	X
84	IF03	Oct 26, 2023		Soil	B23-Oc0068606	X				X	X	X	X
85	IF04	Oct 26, 2023		Soil	B23-Oc0068607	X				X	X	X	X
86	IF05	Oct 26, 2023		Soil	B23-Oc0068608	X				X	X	X	X
87	IF06	Oct 26, 2023		Soil	B23-Oc0068609	X				X	X	X	X
88	T17-B	Oct 26, 2023		Soil	B23-Oc0068610	X		X	X		X		
89	T17-W1	Oct 26, 2023		Soil	B23-Oc0068611	X		X	X		X		
90	T17-W2	Oct 26, 2023		Soil	B23-Oc0068612	X		X	X		X		
91	T18-B	Oct 26, 2023		Soil	B23-Oc0068613	X		X	X		X		
92	T18-W1	Oct 26, 2023		Soil	B23-Oc0068614	X		X	X		X		
93	T18-W2	Oct 26, 2023		Soil	B23-Oc0068615	X		X	X		X		
94	T19-B	Oct 26, 2023		Soil	B23-Oc0068616	X		X	X		X		
95	T19-W1	Oct 26, 2023		Soil	B23-Oc0068617	X		X	X		X		

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
96	T19-W2	Oct 26, 2023		Soil	B23-Oc0068618	X		X	X		X		
97	T20-B	Oct 26, 2023		Soil	B23-Oc0068619	X		X	X		X		
98	T20-W1	Oct 26, 2023		Soil	B23-Oc0068620	X		X	X		X		
99	T20-W2	Oct 26, 2023		Soil	B23-Oc0068621	X		X	X		X		
100	T21-B	Oct 26, 2023		Soil	B23-Oc0068622	X		X	X		X		
101	T21-W1	Oct 26, 2023		Soil	B23-Oc0068623	X		X	X		X		
102	T21-W2	Oct 26, 2023		Soil	B23-Oc0068624	X		X	X		X		
103	T22-B	Oct 26, 2023		Soil	B23-Oc0068625	X		X	X		X		
104	T22-W1	Oct 26, 2023		Soil	B23-Oc0068626	X		X	X		X		
105	T22-W2	Oct 26, 2023		Soil	B23-Oc0068627	X		X	X		X		
106	T23-B	Oct 26, 2023		Soil	B23-Oc0068628	X		X	X		X		
107	T23-W1	Oct 26, 2023		Soil	B23-Oc0068629	X		X	X		X		
108	T23-W2	Oct 26, 2023		Soil	B23-Oc0068630	X		X	X		X		
109	T24-B	Oct 26, 2023		Soil	B23-Oc0068631	X		X	X		X		

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
110	T24-W1	Oct 26, 2023		Soil	B23-Oc0068632	X		X	X		X		
111	T24-W2	Oct 26, 2023		Soil	B23-Oc0068633	X		X	X		X		
112	QC106	Oct 26, 2023		Soil	B23-Oc0068634			X	X		X		
113	QC107	Oct 26, 2023		Soil	B23-Oc0068635			X	X		X		
114	QC108	Oct 26, 2023		Soil	B23-Oc0068636			X	X		X		
115	QC109	Oct 26, 2023		Soil	B23-Oc0068637			X	X		X		
116	QC110	Oct 26, 2023		Soil	B23-Oc0068638			X	X		X		
117	QC111	Oct 26, 2023		Soil	B23-Oc0068639			X	X		X		
118	QC112	Oct 26, 2023		Soil	B23-Oc0068640			X	X		X		
119	QC113	Oct 26, 2023		Soil	B23-Oc0068641			X	X		X		
120	QC114	Oct 26, 2023		Soil	B23-Oc0068642			X	X		X		
121	QC115	Oct 26, 2023		Soil	B23-Oc0068643			X	X		X		
122	QC116	Oct 26, 2023		Soil	B23-Oc0068644			X	X		X		
123	QC117	Oct 26, 2023		Soil	B23-Oc0068645			X	X		X		

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
124	QC118	Oct 26, 2023		Soil	B23-Oc0068646			X	X		X		
125	QC119	Oct 26, 2023		Soil	B23-Oc0068647			X	X		X		
126	QC120	Oct 26, 2023		Soil	B23-Oc0068648			X	X		X		
127	QC121	Oct 26, 2023		Soil	B23-Oc0068649			X	X		X		
128	QC122	Oct 26, 2023		Water	B23-Oc0068650		X		X				
129	QC123	Oct 26, 2023		Water	B23-Oc0068651		X		X				
130	Trip Blank	Oct 26, 2023		Trip Blank (solid)	B23-Oc0068652			X					
Test Counts						111	124	124	123	6	127	6	6

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	101			70-130	Pass	
4,4'-DDD	%	94			70-130	Pass	
4,4'-DDE	%	92			70-130	Pass	
4,4'-DDT	%	108			70-130	Pass	
a-HCH	%	97			70-130	Pass	
Aldrin	%	106			70-130	Pass	
b-HCH	%	111			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	96			70-130	Pass	
Endosulfan I	%	104			70-130	Pass	
Endosulfan II	%	79			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	%	105			70-130	Pass	
Endrin	%	109			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	104			70-130	Pass	
g-HCH (Lindane)	%	98			70-130	Pass	
Heptachlor	%	105			70-130	Pass	
Heptachlor epoxide	%	75			70-130	Pass	
Hexachlorobenzene	%	110			70-130	Pass	
Methoxychlor	%	109			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	102			80-120	Pass	
Lead	%	96			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	109			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	82			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	95			70-130	Pass	
Acenaphthylene	%	100			70-130	Pass	
Anthracene	%	89			70-130	Pass	
Benz(a)anthracene	%	119			70-130	Pass	
Benzo(a)pyrene	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g,h,i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	70			70-130	Pass	
Chrysene	%	79			70-130	Pass	
Dibenz(a,h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	76			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	76			70-130	Pass	
Pyrene	%	82			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Azinphos-methyl	%	71			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bolstar	%	84			70-130	Pass	
Chlorfenvinphos	%	115			70-130	Pass	
Chlorpyrifos	%	87			70-130	Pass	
Chlorpyrifos-methyl	%	98			70-130	Pass	
Coumaphos	%	81			70-130	Pass	
Demeton-S	%	85			70-130	Pass	
Demeton-O	%	123			70-130	Pass	
Diazinon	%	78			70-130	Pass	
Dichlorvos	%	71			70-130	Pass	
Dimethoate	%	86			70-130	Pass	
Disulfoton	%	91			70-130	Pass	
EPN	%	94			70-130	Pass	
Ethion	%	120			70-130	Pass	
Ethoprop	%	93			70-130	Pass	
Ethyl parathion	%	85			70-130	Pass	
Fenitrothion	%	74			70-130	Pass	
Fensulfothion	%	108			70-130	Pass	
Fenthion	%	75			70-130	Pass	
Malathion	%	93			70-130	Pass	
Merphos	%	83			70-130	Pass	
Mevinphos	%	109			70-130	Pass	
Monocrotophos	%	111			70-130	Pass	
Naled	%	129			70-130	Pass	
Omethoate	%	90			70-130	Pass	
Phorate	%	79			70-130	Pass	
Pirimiphos-methyl	%	80			70-130	Pass	
Pyrazophos	%	100			70-130	Pass	
Ronnel	%	81			70-130	Pass	
Terbufos	%	102			70-130	Pass	
Tetrachlorvinphos	%	81			70-130	Pass	
Tokuthion	%	85			70-130	Pass	
Trichloronate	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	78			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	113			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	87			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	87			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	108			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	88			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	115			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	108			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	134			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	113			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	125			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	125			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	128			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	103			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	108			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			%	103			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	128			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	148			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	127			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	113			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	110			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	101			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	94			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	144			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	126			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068530	CP	%	97			70-130	Pass	
4,4'-DDE	B23-Oc0068530	CP	%	90			70-130	Pass	
4,4'-DDT	B23-Oc0068530	CP	%	105			70-130	Pass	
a-HCH	B23-Oc0068530	CP	%	101			70-130	Pass	
Aldrin	B23-Oc0068530	CP	%	100			70-130	Pass	
b-HCH	B23-Oc0068530	CP	%	95			70-130	Pass	
d-HCH	B23-Oc0068530	CP	%	95			70-130	Pass	
Dieldrin	B23-Oc0068530	CP	%	86			70-130	Pass	
Endosulfan I	B23-Oc0068530	CP	%	102			70-130	Pass	
Endosulfan sulphate	B23-Oc0068530	CP	%	101			70-130	Pass	
Endrin	B23-Oc0068530	CP	%	89			70-130	Pass	
Endrin ketone	B23-Oc0068530	CP	%	86			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068530	CP	%	96			70-130	Pass	
Heptachlor	B23-Oc0068530	CP	%	111			70-130	Pass	
Hexachlorobenzene	B23-Oc0068530	CP	%	108			70-130	Pass	
Methoxychlor	B23-Oc0068530	CP	%	104			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068531	CP	%	100			70-130	Pass	
4,4'-DDE	B23-Oc0068531	CP	%	91			70-130	Pass	
4,4'-DDT	B23-Oc0068531	CP	%	109			70-130	Pass	
a-HCH	B23-Oc0068531	CP	%	104			70-130	Pass	
Aldrin	B23-Oc0068531	CP	%	104			70-130	Pass	
b-HCH	B23-Oc0068531	CP	%	102			70-130	Pass	
d-HCH	B23-Oc0068531	CP	%	98			70-130	Pass	
Dieldrin	B23-Oc0068531	CP	%	99			70-130	Pass	
Endosulfan I	B23-Oc0068531	CP	%	92			70-130	Pass	
Endosulfan sulphate	B23-Oc0068531	CP	%	104			70-130	Pass	
Endrin	B23-Oc0068531	CP	%	102			70-130	Pass	
Endrin ketone	B23-Oc0068531	CP	%	88			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068531	CP	%	100			70-130	Pass	
Heptachlor	B23-Oc0068531	CP	%	123			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	B23-Oc0068531	CP	%	74			70-130	Pass	
Hexachlorobenzene	B23-Oc0068531	CP	%	114			70-130	Pass	
Methoxychlor	B23-Oc0068531	CP	%	122			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068534	CP	%	91			75-125	Pass	
Cadmium	B23-Oc0068534	CP	%	96			75-125	Pass	
Copper	B23-Oc0068534	CP	%	117			75-125	Pass	
Lead	B23-Oc0068534	CP	%	100			75-125	Pass	
Mercury	B23-Oc0068534	CP	%	96			75-125	Pass	
Nickel	B23-Oc0068534	CP	%	97			75-125	Pass	
Zinc	B23-Oc0068534	CP	%	110			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068537	CP	%	107			75-125	Pass	
Cadmium	B23-Oc0068537	CP	%	108			75-125	Pass	
Chromium	B23-Oc0068537	CP	%	125			75-125	Pass	
Copper	B23-Oc0068537	CP	%	113			75-125	Pass	
Lead	B23-Oc0068537	CP	%	100			75-125	Pass	
Mercury	B23-Oc0068537	CP	%	118			75-125	Pass	
Nickel	B23-Oc0068537	CP	%	125			75-125	Pass	
Zinc	B23-Oc0068537	CP	%	125			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068538	CP	%	99			70-130	Pass	
4.4'-DDD	B23-Oc0068538	CP	%	97			70-130	Pass	
4.4'-DDE	B23-Oc0068538	CP	%	99			70-130	Pass	
4.4'-DDT	B23-Oc0068538	CP	%	93			70-130	Pass	
a-HCH	B23-Oc0068538	CP	%	93			70-130	Pass	
Aldrin	B23-Oc0068538	CP	%	89			70-130	Pass	
b-HCH	B23-Oc0068538	CP	%	100			70-130	Pass	
d-HCH	B23-Oc0068538	CP	%	94			70-130	Pass	
Dieldrin	B23-Oc0068538	CP	%	97			70-130	Pass	
Endosulfan I	B23-Oc0068538	CP	%	112			70-130	Pass	
Endosulfan II	B23-Oc0068538	CP	%	120			70-130	Pass	
Endosulfan sulphate	B23-Oc0068538	CP	%	105			70-130	Pass	
Endrin	B23-Oc0068538	CP	%	87			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068538	CP	%	99			70-130	Pass	
Heptachlor	B23-Oc0068538	CP	%	76			70-130	Pass	
Heptachlor epoxide	B23-Oc0068538	CP	%	85			70-130	Pass	
Hexachlorobenzene	B23-Oc0068538	CP	%	94			70-130	Pass	
Methoxychlor	B23-Oc0068538	CP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068539	CP	%	101			70-130	Pass	
4.4'-DDD	B23-Oc0068539	CP	%	100			70-130	Pass	
4.4'-DDE	B23-Oc0068539	CP	%	103			70-130	Pass	
4.4'-DDT	B23-Oc0068539	CP	%	95			70-130	Pass	
a-HCH	B23-Oc0068539	CP	%	98			70-130	Pass	
Aldrin	B23-Oc0068539	CP	%	85			70-130	Pass	
b-HCH	B23-Oc0068539	CP	%	102			70-130	Pass	
d-HCH	B23-Oc0068539	CP	%	91			70-130	Pass	
Dieldrin	B23-Oc0068539	CP	%	73			70-130	Pass	
Endosulfan I	B23-Oc0068539	CP	%	115			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	B23-Oc0068539	CP	%	113			70-130	Pass	
Endosulfan sulphate	B23-Oc0068539	CP	%	114			70-130	Pass	
Endrin	B23-Oc0068539	CP	%	89			70-130	Pass	
Endrin aldehyde	B23-Oc0068539	CP	%	111			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068539	CP	%	104			70-130	Pass	
Heptachlor	B23-Oc0068539	CP	%	73			70-130	Pass	
Heptachlor epoxide	B23-Oc0068539	CP	%	79			70-130	Pass	
Hexachlorobenzene	B23-Oc0068539	CP	%	93			70-130	Pass	
Methoxychlor	B23-Oc0068539	CP	%	80			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068549	CP	%	91			75-125	Pass	
Cadmium	B23-Oc0068549	CP	%	97			75-125	Pass	
Chromium	B23-Oc0068549	CP	%	106			75-125	Pass	
Copper	B23-Oc0068549	CP	%	90			75-125	Pass	
Lead	B23-Oc0068549	CP	%	85			75-125	Pass	
Mercury	B23-Oc0068549	CP	%	101			75-125	Pass	
Nickel	B23-Oc0068549	CP	%	92			75-125	Pass	
Zinc	B23-Oc0068549	CP	%	106			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068559	CP	%	130			70-130	Pass	
4,4'-DDE	B23-Oc0068559	CP	%	95			70-130	Pass	
4,4'-DDT	B23-Oc0068559	CP	%	90			70-130	Pass	
a-HCH	B23-Oc0068559	CP	%	84			70-130	Pass	
Aldrin	B23-Oc0068559	CP	%	87			70-130	Pass	
b-HCH	B23-Oc0068559	CP	%	83			70-130	Pass	
d-HCH	B23-Oc0068559	CP	%	88			70-130	Pass	
Endosulfan I	B23-Oc0068559	CP	%	103			70-130	Pass	
Endosulfan II	B23-Oc0068559	CP	%	83			70-130	Pass	
Endosulfan sulphate	B23-Oc0068559	CP	%	88			70-130	Pass	
Endrin	B23-Oc0068559	CP	%	96			70-130	Pass	
Endrin aldehyde	B23-Oc0068559	CP	%	72			70-130	Pass	
Endrin ketone	B23-Oc0068559	CP	%	83			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068559	CP	%	78			70-130	Pass	
Heptachlor	B23-Oc0068559	CP	%	95			70-130	Pass	
Heptachlor epoxide	B23-Oc0068559	CP	%	89			70-130	Pass	
Hexachlorobenzene	B23-Oc0068559	CP	%	92			70-130	Pass	
Methoxychlor	B23-Oc0068559	CP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068573	CP	%	92			70-130	Pass	
4,4'-DDT	B23-Oc0068573	CP	%	102			70-130	Pass	
a-HCH	B23-Oc0068573	CP	%	93			70-130	Pass	
Aldrin	B23-Oc0068573	CP	%	93			70-130	Pass	
b-HCH	B23-Oc0068573	CP	%	99			70-130	Pass	
d-HCH	B23-Oc0068573	CP	%	96			70-130	Pass	
Endosulfan I	B23-Oc0068573	CP	%	91			70-130	Pass	
Endosulfan II	B23-Oc0068573	CP	%	77			70-130	Pass	
Endosulfan sulphate	B23-Oc0068573	CP	%	101			70-130	Pass	
Endrin	B23-Oc0068573	CP	%	75			70-130	Pass	
Endrin ketone	B23-Oc0068573	CP	%	86			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068573	CP	%	95			70-130	Pass	
Heptachlor	B23-Oc0068573	CP	%	117			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	B23-Oc0068573	CP	%	99		70-130	Pass	
Methoxychlor	B23-Oc0068573	CP	%	130		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Oc0068574	CP	%	93		75-125	Pass	
Cadmium	B23-Oc0068574	CP	%	90		75-125	Pass	
Copper	B23-Oc0068574	CP	%	122		75-125	Pass	
Lead	B23-Oc0068574	CP	%	88		75-125	Pass	
Mercury	B23-Oc0068574	CP	%	108		75-125	Pass	
Nickel	B23-Oc0068574	CP	%	96		75-125	Pass	
Zinc	B23-Oc0068574	CP	%	91		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	B23-Oc0068576	CP	%	88		70-130	Pass	
4,4'-DDE	B23-Oc0068576	CP	%	92		70-130	Pass	
4,4'-DDT	B23-Oc0068576	CP	%	80		70-130	Pass	
a-HCH	B23-Oc0068576	CP	%	87		70-130	Pass	
Aldrin	B23-Oc0068576	CP	%	85		70-130	Pass	
b-HCH	B23-Oc0068576	CP	%	86		70-130	Pass	
d-HCH	B23-Oc0068576	CP	%	84		70-130	Pass	
Dieldrin	B23-Oc0068576	CP	%	84		70-130	Pass	
Endosulfan I	B23-Oc0068576	CP	%	94		70-130	Pass	
Endosulfan II	B23-Oc0068576	CP	%	89		70-130	Pass	
Endosulfan sulphate	B23-Oc0068576	CP	%	82		70-130	Pass	
Endrin	B23-Oc0068576	CP	%	81		70-130	Pass	
Endrin ketone	B23-Oc0068576	CP	%	83		70-130	Pass	
g-HCH (Lindane)	B23-Oc0068576	CP	%	70		70-130	Pass	
Heptachlor	B23-Oc0068576	CP	%	88		70-130	Pass	
Heptachlor epoxide	B23-Oc0068576	CP	%	94		70-130	Pass	
Hexachlorobenzene	B23-Oc0068576	CP	%	91		70-130	Pass	
Methoxychlor	B23-Oc0068576	CP	%	79		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	B23-Oc0068587	CP	%	91		70-130	Pass	
4,4'-DDD	B23-Oc0068587	CP	%	86		70-130	Pass	
4,4'-DDE	B23-Oc0068587	CP	%	100		70-130	Pass	
4,4'-DDT	B23-Oc0068587	CP	%	89		70-130	Pass	
a-HCH	B23-Oc0068587	CP	%	97		70-130	Pass	
Aldrin	B23-Oc0068587	CP	%	75		70-130	Pass	
b-HCH	B23-Oc0068587	CP	%	93		70-130	Pass	
d-HCH	B23-Oc0068587	CP	%	89		70-130	Pass	
Dieldrin	B23-Oc0068587	CP	%	97		70-130	Pass	
Endosulfan I	B23-Oc0068587	CP	%	110		70-130	Pass	
Endosulfan II	B23-Oc0068587	CP	%	117		70-130	Pass	
Endosulfan sulphate	B23-Oc0068587	CP	%	94		70-130	Pass	
Endrin	B23-Oc0068587	CP	%	90		70-130	Pass	
Endrin aldehyde	B23-Oc0068587	CP	%	95		70-130	Pass	
g-HCH (Lindane)	B23-Oc0068587	CP	%	100		70-130	Pass	
Heptachlor	B23-Oc0068587	CP	%	71		70-130	Pass	
Hexachlorobenzene	B23-Oc0068587	CP	%	92		70-130	Pass	
Methoxychlor	B23-Oc0068587	CP	%	76		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Oc0068594	CP	%	85		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	B23-Oc0068594	CP	%	87			75-125	Pass	
Chromium	B23-Oc0068594	CP	%	78			75-125	Pass	
Copper	B23-Oc0068594	CP	%	82			75-125	Pass	
Lead	B23-Oc0068594	CP	%	86			75-125	Pass	
Mercury	B23-Oc0068594	CP	%	96			75-125	Pass	
Nickel	B23-Oc0068594	CP	%	76			75-125	Pass	
Zinc	B23-Oc0068594	CP	%	97			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068603	CP	%	75			75-125	Pass	
Mercury	B23-Oc0068603	CP	%	82			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	B23-Oc0070557	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B23-Oc0073458	NCP	%	96			70-130	Pass	
Acenaphthylene	B23-Oc0057335	NCP	%	87			70-130	Pass	
Anthracene	B23-Oc0073458	NCP	%	90			70-130	Pass	
Benz(a)anthracene	B23-Oc0073458	NCP	%	104			70-130	Pass	
Benzo(a)pyrene	B23-Oc0073458	NCP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	B23-Oc0073458	NCP	%	92			70-130	Pass	
Benzo(g,h,i)perylene	B23-Oc0073458	NCP	%	88			70-130	Pass	
Benzo(k)fluoranthene	B23-Oc0073458	NCP	%	91			70-130	Pass	
Chrysene	B23-Oc0073458	NCP	%	84			70-130	Pass	
Dibenz(a,h)anthracene	B23-Oc0073458	NCP	%	88			70-130	Pass	
Fluoranthene	B23-Oc0073458	NCP	%	106			70-130	Pass	
Fluorene	B23-Oc0073458	NCP	%	91			70-130	Pass	
Indeno(1,2,3-cd)pyrene	B23-Oc0073458	NCP	%	86			70-130	Pass	
Naphthalene	B23-Oc0073458	NCP	%	93			70-130	Pass	
Phenanthrene	B23-Oc0073458	NCP	%	77			70-130	Pass	
Pyrene	B23-Oc0073458	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Azinphos-methyl	B23-Oc0073605	NCP	%	117			70-130	Pass	
Bolstar	B23-Oc0073458	NCP	%	75			70-130	Pass	
Chlorfenvinphos	B23-Oc0073605	NCP	%	106			70-130	Pass	
Chlorpyrifos	B23-Oc0073458	NCP	%	94			70-130	Pass	
Chlorpyrifos-methyl	B23-Oc0073458	NCP	%	101			70-130	Pass	
Coumaphos	B23-Oc0073458	NCP	%	85			70-130	Pass	
Demeton-S	B23-Oc0073605	NCP	%	75			70-130	Pass	
Demeton-O	B23-Oc0073605	NCP	%	124			70-130	Pass	
Diazinon	B23-Oc0073458	NCP	%	88			70-130	Pass	
Dichlorvos	B23-Oc0073458	NCP	%	84			70-130	Pass	
Dimethoate	B23-Oc0073605	NCP	%	93			70-130	Pass	
Disulfoton	B23-Oc0073605	NCP	%	86			70-130	Pass	
EPN	B23-Oc0073605	NCP	%	97			70-130	Pass	
Ethion	B23-Oc0073458	NCP	%	99			70-130	Pass	
Ethoprop	B23-Oc0073458	NCP	%	72			70-130	Pass	
Ethyl parathion	B23-Oc0073605	NCP	%	81			70-130	Pass	
Fenitrothion	B23-Oc0073458	NCP	%	76			70-130	Pass	
Fensulfotthion	B23-Oc0073458	NCP	%	88			70-130	Pass	
Fenthion	B23-Oc0073458	NCP	%	84			70-130	Pass	
Malathion	B23-Oc0073458	NCP	%	72			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Merphos	B23-No0001112	NCP	%	76			70-130	Pass	
Methyl parathion	B23-Oc0073605	NCP	%	85			70-130	Pass	
Mevinphos	B23-Oc0073605	NCP	%	98			70-130	Pass	
Monocrotophos	B23-Oc0073605	NCP	%	94			70-130	Pass	
Naled	B23-Oc0073458	NCP	%	130			70-130	Pass	
Omethoate	B23-Oc0073605	NCP	%	74			70-130	Pass	
Phorate	B23-Oc0073458	NCP	%	81			70-130	Pass	
Pirimiphos-methyl	B23-Oc0073458	NCP	%	76			70-130	Pass	
Pyrazophos	B23-Oc0073605	NCP	%	113			70-130	Pass	
Ronnel	B23-Oc0067296	NCP	%	101			70-130	Pass	
Terbufos	B23-Oc0073605	NCP	%	100			70-130	Pass	
Tetrachlorvinphos	B23-Oc0073605	NCP	%	89			70-130	Pass	
Tokuthion	B23-Oc0073458	NCP	%	92			70-130	Pass	
Trichloronate	B23-Oc0073458	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	B23-Oc0070557	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0064820	NCP	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0064820	NCP	%	98			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0064820	NCP	%	116			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0064820	NCP	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0064820	NCP	%	80			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0064820	NCP	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0064820	NCP	%	106			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0064820	NCP	%	85			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0064820	NCP	%	128			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	B23-Oc0064820	NCP	%	102			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0064820	NCP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0064820	NCP	%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0064820	NCP	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0064820	NCP	%	113			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0064820	NCP	%	123			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0064820	NCP	%	122			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0064820	NCP	%	107			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0064820	NCP	%	99			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0064820	NCP	%	110			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0064820	NCP	%	129			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0064820	NCP	%	142			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0064820	NCP	%	108		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0064820	NCP	%	110		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0064820	NCP	%	96		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0064820	NCP	%	93		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0064820	NCP	%	119		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0064820	NCP	%	101		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0064820	NCP	%	110		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0064820	NCP	%	102		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0064820	NCP	%	137		50-150	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	B23-Oc0068606	CP	%	86		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	B23-Oc0068606	CP	%	100		70-130	Pass	
Toluene	B23-Oc0068606	CP	%	98		70-130	Pass	
Ethylbenzene	B23-Oc0068606	CP	%	101		70-130	Pass	
m&p-Xylenes	B23-Oc0068606	CP	%	100		70-130	Pass	
o-Xylene	B23-Oc0068606	CP	%	98		70-130	Pass	
Xylenes - Total*	B23-Oc0068606	CP	%	99		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH C6-C10	B23-Oc0068606	CP	%	81		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	B23-Oc0068617	CP	%	108		70-130	Pass	
4,4'-DDD	B23-Oc0068617	CP	%	72		70-130	Pass	
4,4'-DDT	B23-Oc0068617	CP	%	122		70-130	Pass	
a-HCH	B23-Oc0068617	CP	%	107		70-130	Pass	
Aldrin	B23-Oc0068617	CP	%	122		70-130	Pass	
b-HCH	B23-Oc0068617	CP	%	104		70-130	Pass	
d-HCH	B23-Oc0068617	CP	%	99		70-130	Pass	
Endosulfan I	B23-Oc0068617	CP	%	102		70-130	Pass	
Endosulfan sulphate	B23-Oc0068617	CP	%	119		70-130	Pass	
Endrin	B23-Oc0068617	CP	%	98		70-130	Pass	
Endrin ketone	B23-Oc0068617	CP	%	92		70-130	Pass	
g-HCH (Lindane)	B23-Oc0068617	CP	%	101		70-130	Pass	
Hexachlorobenzene	B23-Oc0068617	CP	%	112		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	B23-Oc0068630	CP	%	88		75-125	Pass	
Cadmium	B23-Oc0068630	CP	%	92		75-125	Pass	
Copper	B23-Oc0068630	CP	%	95		75-125	Pass	
Lead	B23-Oc0068630	CP	%	91		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	B23-Oc0068630	CP	%	102			75-125	Pass	
Nickel	B23-Oc0068630	CP	%	98			75-125	Pass	
Zinc	B23-Oc0068630	CP	%	99			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068631	CP	%	89			70-130	Pass	
4.4'-DDD	B23-Oc0068631	CP	%	78			70-130	Pass	
4.4'-DDE	B23-Oc0068631	CP	%	82			70-130	Pass	
4.4'-DDT	B23-Oc0068631	CP	%	87			70-130	Pass	
a-HCH	B23-Oc0068631	CP	%	72			70-130	Pass	
Aldrin	B23-Oc0068631	CP	%	79			70-130	Pass	
b-HCH	B23-Oc0068631	CP	%	76			70-130	Pass	
d-HCH	B23-Oc0068631	CP	%	82			70-130	Pass	
Dieldrin	B23-Oc0068631	CP	%	83			70-130	Pass	
Endosulfan I	B23-Oc0068631	CP	%	96			70-130	Pass	
Endosulfan II	B23-Oc0068631	CP	%	85			70-130	Pass	
Endosulfan sulphate	B23-Oc0068631	CP	%	88			70-130	Pass	
Endrin	B23-Oc0068631	CP	%	94			70-130	Pass	
Endrin aldehyde	B23-Oc0068631	CP	%	89			70-130	Pass	
Endrin ketone	B23-Oc0068631	CP	%	96			70-130	Pass	
g-HCH (Lindane)	B23-Oc0068631	CP	%	80			70-130	Pass	
Heptachlor	B23-Oc0068631	CP	%	87			70-130	Pass	
Heptachlor epoxide	B23-Oc0068631	CP	%	93			70-130	Pass	
Hexachlorobenzene	B23-Oc0068631	CP	%	96			70-130	Pass	
Methoxychlor	B23-Oc0068631	CP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068635	CP	%	94			75-125	Pass	
Cadmium	B23-Oc0068635	CP	%	95			75-125	Pass	
Copper	B23-Oc0068635	CP	%	105			75-125	Pass	
Lead	B23-Oc0068635	CP	%	85			75-125	Pass	
Mercury	B23-Oc0068635	CP	%	104			75-125	Pass	
Nickel	B23-Oc0068635	CP	%	103			75-125	Pass	
Zinc	B23-Oc0068635	CP	%	105			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068640	CP	%	89			75-125	Pass	
Cadmium	B23-Oc0068640	CP	%	97			75-125	Pass	
Chromium	B23-Oc0068640	CP	%	101			75-125	Pass	
Copper	B23-Oc0068640	CP	%	93			75-125	Pass	
Lead	B23-Oc0068640	CP	%	79			75-125	Pass	
Mercury	B23-Oc0068640	CP	%	104			75-125	Pass	
Nickel	B23-Oc0068640	CP	%	80			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068641	CP	%	92			70-130	Pass	
4.4'-DDE	B23-Oc0068641	CP	%	93			70-130	Pass	
4.4'-DDT	B23-Oc0068641	CP	%	92			70-130	Pass	
a-HCH	B23-Oc0068641	CP	%	82			70-130	Pass	
Aldrin	B23-Oc0068641	CP	%	80			70-130	Pass	
b-HCH	B23-Oc0068641	CP	%	83			70-130	Pass	
d-HCH	B23-Oc0068641	CP	%	72			70-130	Pass	
Dieldrin	B23-Oc0068641	CP	%	81			70-130	Pass	
Endosulfan I	B23-Oc0068641	CP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	B23-Oc0068641	CP	%	92			70-130	Pass	
Endosulfan sulphate	B23-Oc0068641	CP	%	87			70-130	Pass	
Endrin ketone	B23-Oc0068641	CP	%	82			70-130	Pass	
Heptachlor	B23-Oc0068641	CP	%	89			70-130	Pass	
Heptachlor epoxide	B23-Oc0068641	CP	%	108			70-130	Pass	
Hexachlorobenzene	B23-Oc0068641	CP	%	87			70-130	Pass	
Methoxychlor	B23-Oc0068641	CP	%	91			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Oc0068645	CP	%	82			70-130	Pass	
4.4'-DDE	B23-Oc0068645	CP	%	90			70-130	Pass	
4.4'-DDT	B23-Oc0068645	CP	%	88			70-130	Pass	
a-HCH	B23-Oc0068645	CP	%	81			70-130	Pass	
Aldrin	B23-Oc0068645	CP	%	77			70-130	Pass	
b-HCH	B23-Oc0068645	CP	%	80			70-130	Pass	
d-HCH	B23-Oc0068645	CP	%	83			70-130	Pass	
Dieldrin	B23-Oc0068645	CP	%	77			70-130	Pass	
Endosulfan I	B23-Oc0068645	CP	%	96			70-130	Pass	
Endrin	B23-Oc0068645	CP	%	97			70-130	Pass	
Endrin ketone	B23-Oc0068645	CP	%	82			70-130	Pass	
Heptachlor	B23-Oc0068645	CP	%	92			70-130	Pass	
Heptachlor epoxide	B23-Oc0068645	CP	%	102			70-130	Pass	
Hexachlorobenzene	B23-Oc0068645	CP	%	86			70-130	Pass	
Methoxychlor	B23-Oc0068645	CP	%	95			70-130	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	B23-Oc0068523	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-Oc0068523	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Cadmium	B23-Oc0068523	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium	B23-Oc0068523	CP	mg/kg	99	130	28	30%	Pass	
Copper	B23-Oc0068523	CP	mg/kg	34	39	12	30%	Pass	
Lead	B23-Oc0068523	CP	mg/kg	< 5	5.2	11	30%	Pass	
Nickel	B23-Oc0068523	CP	mg/kg	29	38	26	30%	Pass	
Zinc	B23-Oc0068523	CP	mg/kg	26	29	13	30%	Pass	

Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068523	CP	%	7.0	7.0	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068532	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068532	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068533	CP	mg/kg	3.5	3.6	3.4	30%	Pass
Chromium	B23-Oc0068533	CP	mg/kg	190	220	16	30%	Pass
Copper	B23-Oc0068533	CP	mg/kg	86	93	8.0	30%	Pass
Nickel	B23-Oc0068533	CP	mg/kg	59	72	19	30%	Pass
Zinc	B23-Oc0068533	CP	mg/kg	37	44	18	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068533	CP	%	< 1	< 1	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068535	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068535	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068540	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068540	CP	mg/kg	< 0.05	0.07	46	30%	Fail
b-HCH	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068540	CP	mg/kg	0.78	0.71	8.4	30%	Pass
Endosulfan I	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068540	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068542	CP	mg/kg	3.5	5.1	37	30%	Fail
Cadmium	B23-Oc0068542	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Oc0068542	CP	mg/kg	94	94	<1	30%	Pass
Copper	B23-Oc0068542	CP	mg/kg	15	17	12	30%	Pass
Lead	B23-Oc0068542	CP	mg/kg	14	24	51	30%	Fail
Mercury	B23-Oc0068542	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068542	CP	mg/kg	34	29	15	30%	Pass
Zinc	B23-Oc0068542	CP	mg/kg	49	58	17	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068543	CP	%	< 1	1.3	42	30%	Fail
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068550	CP	mg/kg	8.5	11	24	30%	Pass
Cadmium	B23-Oc0068550	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Oc0068550	CP	mg/kg	110	150	27	30%	Pass
Copper	B23-Oc0068550	CP	mg/kg	20	23	15	30%	Pass
Lead	B23-Oc0068550	CP	mg/kg	22	24	7.5	30%	Pass
Mercury	B23-Oc0068550	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068550	CP	mg/kg	35	45	26	30%	Pass
Zinc	B23-Oc0068550	CP	mg/kg	59	74	22	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068553	CP	%	9.2	7.4	21	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068563	CP	%	2.1	1.9	9.1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068569	CP	mg/kg	0.8	0.5	43	30%	Fail
4,4'-DDD	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068569	CP	mg/kg	0.09	< 0.05	83	30%	Fail
Endrin aldehyde	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068569	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068572	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068572	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Chromium	B23-Oc0068573	CP	mg/kg	74	60	21	30%	Pass
Copper	B23-Oc0068573	CP	mg/kg	9.6	8.8	8.8	30%	Pass
Lead	B23-Oc0068573	CP	mg/kg	6.2	8.3	30	30%	Pass
Nickel	B23-Oc0068573	CP	mg/kg	20	24	19	30%	Pass
Zinc	B23-Oc0068573	CP	mg/kg	34	27	23	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068573	CP	%	4.2	2.3	58	30%	Fail

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068579	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068579	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068583	CP	mg/kg	3.7	3.4	11	30%	Pass
Chromium	B23-Oc0068583	CP	mg/kg	53	44	20	30%	Pass
Copper	B23-Oc0068583	CP	mg/kg	8.8	7.5	16	30%	Pass
Lead	B23-Oc0068583	CP	mg/kg	10.0	8.9	11	30%	Pass
Nickel	B23-Oc0068583	CP	mg/kg	25	22	14	30%	Pass
Zinc	B23-Oc0068583	CP	mg/kg	36	44	19	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068583	CP	%	1.5	1.5	1.4	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068586	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068593	CP	mg/kg	3.7	3.4	8.2	30%	Pass
Chromium	B23-Oc0068593	CP	mg/kg	85	98	14	30%	Pass
Copper	B23-Oc0068593	CP	mg/kg	18	17	3.3	30%	Pass
Lead	B23-Oc0068593	CP	mg/kg	21	20	5.5	30%	Pass
Mercury	B23-Oc0068593	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068593	CP	mg/kg	36	27	29	30%	Pass
Zinc	B23-Oc0068593	CP	mg/kg	350	370	6.9	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068593	CP	%	2.3	3.1	30	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068598	CP	mg/kg	12	11	5.8	30%	Pass
Chromium	B23-Oc0068598	CP	mg/kg	76	81	5.9	30%	Pass
Copper	B23-Oc0068598	CP	mg/kg	13	12	7.2	30%	Pass
Lead	B23-Oc0068598	CP	mg/kg	68	79	15	30%	Pass
Mercury	B23-Oc0068598	CP	mg/kg	0.1	0.1	<1	30%	Pass
Nickel	B23-Oc0068598	CP	mg/kg	26	30	15	30%	Pass
Zinc	B23-Oc0068598	CP	mg/kg	110	98	14	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068603	CP	%	3.2	3.1	2.1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0051360	NCP	ug/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068608	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068608	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	B23-Oc0068608	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	B23-Oc0068608	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	B23-Oc0068608	CP	mg/kg	< 50	< 50	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-Oc0068608	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	B23-Oc0068608	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	B23-Oc0068608	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	B23-Oc0068608	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	B23-Oc0068608	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	B23-Oc0068608	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	B23-Oc0068608	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	B23-Oc0068608	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0068608	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0068608	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0068608	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0068608	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B23-Oc0068609	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	B23-Oc0068609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	B23-Oc0068609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	B23-Oc0068609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	B23-Oc0068609	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	B23-Oc0068609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	B23-Oc0068609	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	B23-Oc0068609	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	B23-Oc0068609	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068613	CP	%	3.3	< 1	120	30%	Fail
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068619	CP	mg/kg	7.2	7.8	7.8	30%	Pass
Chromium	B23-Oc0068619	CP	mg/kg	140	140	<1	30%	Pass
Copper	B23-Oc0068619	CP	mg/kg	20	15	27	30%	Pass
Lead	B23-Oc0068619	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	B23-Oc0068619	CP	mg/kg	38	34	13	30%	Pass
Zinc	B23-Oc0068619	CP	mg/kg	36	33	9.6	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Heptachlor epoxide	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068620	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068620	CP	mg/kg	14	13	13	30%	Pass
Cadmium	B23-Oc0068620	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Oc0068620	CP	mg/kg	160	130	19	30%	Pass
Copper	B23-Oc0068620	CP	mg/kg	23	18	23	30%	Pass
Lead	B23-Oc0068620	CP	mg/kg	35	44	22	30%	Pass
Mercury	B23-Oc0068620	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068620	CP	mg/kg	30	30	2.3	30%	Pass
Zinc	B23-Oc0068620	CP	mg/kg	76	80	4.1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068623	CP	%	3.5	3.6	1.4	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068629	CP	mg/kg	14	11	26	30%	Pass
Chromium	B23-Oc0068629	CP	mg/kg	170	140	17	30%	Pass
Copper	B23-Oc0068629	CP	mg/kg	24	24	<1	30%	Pass
Lead	B23-Oc0068629	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	B23-Oc0068629	CP	mg/kg	45	46	1.1	30%	Pass
Zinc	B23-Oc0068629	CP	mg/kg	32	33	1.2	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068630	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068630	CP	mg/kg	0.05	< 0.05	4.4	30%	Pass
Endosulfan I	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068630	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068633	CP	%	5.0	6.1	19	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068634	CP	mg/kg	2.8	2.4	16	30%	Pass
Cadmium	B23-Oc0068634	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Oc0068634	CP	mg/kg	120	110	8.0	30%	Pass
Copper	B23-Oc0068634	CP	mg/kg	30	31	3.1	30%	Pass
Lead	B23-Oc0068634	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	B23-Oc0068634	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068634	CP	mg/kg	32	28	11	30%	Pass
Zinc	B23-Oc0068634	CP	mg/kg	28	24	13	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-Oc0068639	CP	mg/kg	4.6	5.1	9.5	30%	Pass
Cadmium	B23-Oc0068639	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-Oc0068639	CP	mg/kg	68	71	4.1	30%	Pass
Copper	B23-Oc0068639	CP	mg/kg	5.9	17	96	30%	Fail Q15
Lead	B23-Oc0068639	CP	mg/kg	< 5	8.3	55	30%	Fail Q15
Mercury	B23-Oc0068639	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-Oc0068639	CP	mg/kg	18	19	4.1	30%	Pass
Zinc	B23-Oc0068639	CP	mg/kg	15	22	41	30%	Fail Q15
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068640	CP	mg/kg	0.2	0.2	10.0	30%	Pass
4,4'-DDD	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0068643	CP	%	6.3	5.9	7.2	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-Oc0068647	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Endosulfan I	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-Oc0068647	CP	mg/kg	< 0.05	< 0.05	<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
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-Volatile
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Jeremy Wicks**

Report **1039102-W**
Project name **DVA Greenslopes**
Project ID **278300**
Received Date **Oct 26, 2023**

Client Sample ID			QC122	QC123
Sample Matrix			Water	Water
Eurofins Sample No.			B23- Oc0068650	B23- Oc0068651
Date Sampled			Oct 26, 2023	Oct 26, 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
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
Dibutylchloredate (surr.)	1	%	129	108
Tetrachloro-m-xylene (surr.)	1	%	82	77
Heavy Metals				
Arsenic	0.001	mg/L	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002
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
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Nov 02, 2023	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Oct 30, 2023	28 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Auckland	Christchurch	Tauranga
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	A1	Oct 26, 2023		Soil	B23-Oc0068523	X		X	X		X		
2	A2	Oct 26, 2023		Soil	B23-Oc0068524	X		X	X		X		
3	A3	Oct 26, 2023		Soil	B23-Oc0068525	X		X	X		X		
4	A4	Oct 26, 2023		Soil	B23-Oc0068526	X		X	X		X		
5	A5	Oct 26, 2023		Soil	B23-Oc0068527	X		X	X		X		
6	A6	Oct 26, 2023		Soil	B23-Oc0068528	X		X	X		X		
7	A7	Oct 26, 2023		Soil	B23-Oc0068529	X		X	X		X		
8	A8	Oct 26, 2023		Soil	B23-Oc0068530	X		X	X		X		
9	A9	Oct 26, 2023		Soil	B23-Oc0068531	X		X	X		X		
10	A10	Oct 26, 2023		Soil	B23-Oc0068532	X		X	X		X		
11	B1	Oct 26, 2023		Soil	B23-Oc0068533	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
12	B2	Oct 26, 2023		Soil	B23-Oc0068534	X		X	X		X		
13	B3	Oct 26, 2023		Soil	B23-Oc0068535	X		X	X		X		
14	B4	Oct 26, 2023		Soil	B23-Oc0068536	X		X	X		X		
15	B5	Oct 26, 2023		Soil	B23-Oc0068537	X		X	X		X		
16	B6	Oct 26, 2023		Soil	B23-Oc0068538	X		X	X		X		
17	B7	Oct 26, 2023		Soil	B23-Oc0068539	X		X	X		X		
18	B8	Oct 26, 2023		Soil	B23-Oc0068540	X		X	X		X		
19	B9	Oct 26, 2023		Soil	B23-Oc0068541	X		X	X		X		
20	B10	Oct 26, 2023		Soil	B23-Oc0068542	X		X	X		X		
21	C1	Oct 26, 2023		Soil	B23-Oc0068543	X		X	X		X		
22	C2	Oct 26, 2023		Soil	B23-Oc0068544	X		X	X		X		
23	C3	Oct 26, 2023		Soil	B23-Oc0068545	X		X	X		X		
24	C4	Oct 26, 2023		Soil	B23-Oc0068546	X		X	X		X		
25	C5	Oct 26, 2023		Soil	B23-Oc0068547	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
26	C6	Oct 26, 2023		Soil	B23-Oc0068548	X		X	X		X		
27	C7	Oct 26, 2023		Soil	B23-Oc0068549	X		X	X		X		
28	C8	Oct 26, 2023		Soil	B23-Oc0068550	X		X	X		X		
29	C9	Oct 26, 2023		Soil	B23-Oc0068551	X		X	X		X		
30	C10	Oct 26, 2023		Soil	B23-Oc0068552	X		X	X		X		
31	D1	Oct 26, 2023		Soil	B23-Oc0068553	X		X	X		X		
32	D2	Oct 26, 2023		Soil	B23-Oc0068554	X		X	X		X		
33	D3	Oct 26, 2023		Soil	B23-Oc0068555	X		X	X		X		
34	D4	Oct 26, 2023		Soil	B23-Oc0068556	X		X	X		X		
35	D5	Oct 26, 2023		Soil	B23-Oc0068557	X		X	X		X		
36	D6	Oct 26, 2023		Soil	B23-Oc0068558	X		X	X		X		
37	D7	Oct 26, 2023		Soil	B23-Oc0068559	X		X	X		X		
38	D8	Oct 26, 2023		Soil	B23-Oc0068560	X		X	X		X		
39	D9	Oct 26, 2023		Soil	B23-Oc0068561	X		X	X		X		

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
40	D10	Oct 26, 2023		Soil	B23-Oc0068562	X		X	X		X		
41	E1	Oct 26, 2023		Soil	B23-Oc0068563	X		X	X		X		
42	E2	Oct 26, 2023		Soil	B23-Oc0068564	X		X	X		X		
43	E3	Oct 26, 2023		Soil	B23-Oc0068565	X		X	X		X		
44	E4	Oct 26, 2023		Soil	B23-Oc0068566	X		X	X		X		
45	E5	Oct 26, 2023		Soil	B23-Oc0068567	X		X	X		X		
46	E6	Oct 26, 2023		Soil	B23-Oc0068568	X		X	X		X		
47	E7	Oct 26, 2023		Soil	B23-Oc0068569	X		X	X		X		
48	E8	Oct 26, 2023		Soil	B23-Oc0068570	X		X	X		X		
49	E9	Oct 26, 2023		Soil	B23-Oc0068571	X		X	X		X		
50	E10	Oct 26, 2023		Soil	B23-Oc0068572	X		X	X		X		
51	F1	Oct 26, 2023		Soil	B23-Oc0068573	X		X	X		X		
52	F2	Oct 26, 2023		Soil	B23-Oc0068574	X		X	X		X		
53	F3	Oct 26, 2023		Soil	B23-Oc0068575	X		X	X		X		

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Geenslopes
Project ID: 278300

Order No.:
Report #: 1039102
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
54	F4	Oct 26, 2023		Soil	B23-Oc0068576	X		X	X		X		
55	F5	Oct 26, 2023		Soil	B23-Oc0068577	X		X	X		X		
56	F6	Oct 26, 2023		Soil	B23-Oc0068578	X		X	X		X		
57	F7	Oct 26, 2023		Soil	B23-Oc0068579	X		X	X		X		
58	F8	Oct 26, 2023		Soil	B23-Oc0068580	X		X	X		X		
59	F9	Oct 26, 2023		Soil	B23-Oc0068581	X		X	X		X		
60	F10	Oct 26, 2023		Soil	B23-Oc0068582	X		X	X		X		
61	G1	Oct 26, 2023		Soil	B23-Oc0068583	X		X	X		X		
62	G2	Oct 26, 2023		Soil	B23-Oc0068584	X		X	X		X		
63	G3	Oct 26, 2023		Soil	B23-Oc0068585	X		X	X		X		
64	G4	Oct 26, 2023		Soil	B23-Oc0068586	X		X	X		X		
65	G5	Oct 26, 2023		Soil	B23-Oc0068587	X		X	X		X		
66	G6	Oct 26, 2023		Soil	B23-Oc0068588	X		X	X		X		
67	G7	Oct 26, 2023		Soil	B23-Oc0068589	X		X	X		X		

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Order No.:
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Received: Oct 26, 2023 6:15 PM
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Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
68	G8	Oct 26, 2023		Soil	B23-Oc0068590	X		X	X		X		
69	G9	Oct 26, 2023		Soil	B23-Oc0068591	X		X	X		X		
70	G10	Oct 26, 2023		Soil	B23-Oc0068592	X		X	X		X		
71	H1	Oct 26, 2023		Soil	B23-Oc0068593	X		X	X		X		
72	H2	Oct 26, 2023		Soil	B23-Oc0068594	X		X	X		X		
73	H3	Oct 26, 2023		Soil	B23-Oc0068595	X		X	X		X		
74	H4	Oct 26, 2023		Soil	B23-Oc0068596	X		X	X		X		
75	H5	Oct 26, 2023		Soil	B23-Oc0068597	X		X	X		X		
76	H6	Oct 26, 2023		Soil	B23-Oc0068598	X		X	X		X		
77	H7	Oct 26, 2023		Soil	B23-Oc0068599	X		X	X		X		
78	H8	Oct 26, 2023		Soil	B23-Oc0068600	X		X	X		X		
79	H9	Oct 26, 2023		Soil	B23-Oc0068601	X		X	X		X		
80	H10	Oct 26, 2023		Soil	B23-Oc0068602	X		X	X		X		
81	HSB07	Oct 26, 2023		Soil	B23-Oc0068603	X		X	X		X		

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Phone: +61 2 9406 1000
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Received: Oct 26, 2023 6:15 PM
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Contact Name: Jeremy Wicks

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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
82	IF01	Oct 26, 2023		Soil	B23-Oc0068604	X				X	X	X	X
83	IF02	Oct 26, 2023		Soil	B23-Oc0068605	X				X	X	X	X
84	IF03	Oct 26, 2023		Soil	B23-Oc0068606	X				X	X	X	X
85	IF04	Oct 26, 2023		Soil	B23-Oc0068607	X				X	X	X	X
86	IF05	Oct 26, 2023		Soil	B23-Oc0068608	X				X	X	X	X
87	IF06	Oct 26, 2023		Soil	B23-Oc0068609	X				X	X	X	X
88	T17-B	Oct 26, 2023		Soil	B23-Oc0068610	X		X	X		X		
89	T17-W1	Oct 26, 2023		Soil	B23-Oc0068611	X		X	X		X		
90	T17-W2	Oct 26, 2023		Soil	B23-Oc0068612	X		X	X		X		
91	T18-B	Oct 26, 2023		Soil	B23-Oc0068613	X		X	X		X		
92	T18-W1	Oct 26, 2023		Soil	B23-Oc0068614	X		X	X		X		
93	T18-W2	Oct 26, 2023		Soil	B23-Oc0068615	X		X	X		X		
94	T19-B	Oct 26, 2023		Soil	B23-Oc0068616	X		X	X		X		
95	T19-W1	Oct 26, 2023		Soil	B23-Oc0068617	X		X	X		X		

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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
96	T19-W2	Oct 26, 2023		Soil	B23-Oc0068618	X		X	X		X		
97	T20-B	Oct 26, 2023		Soil	B23-Oc0068619	X		X	X		X		
98	T20-W1	Oct 26, 2023		Soil	B23-Oc0068620	X		X	X		X		
99	T20-W2	Oct 26, 2023		Soil	B23-Oc0068621	X		X	X		X		
100	T21-B	Oct 26, 2023		Soil	B23-Oc0068622	X		X	X		X		
101	T21-W1	Oct 26, 2023		Soil	B23-Oc0068623	X		X	X		X		
102	T21-W2	Oct 26, 2023		Soil	B23-Oc0068624	X		X	X		X		
103	T22-B	Oct 26, 2023		Soil	B23-Oc0068625	X		X	X		X		
104	T22-W1	Oct 26, 2023		Soil	B23-Oc0068626	X		X	X		X		
105	T22-W2	Oct 26, 2023		Soil	B23-Oc0068627	X		X	X		X		
106	T23-B	Oct 26, 2023		Soil	B23-Oc0068628	X		X	X		X		
107	T23-W1	Oct 26, 2023		Soil	B23-Oc0068629	X		X	X		X		
108	T23-W2	Oct 26, 2023		Soil	B23-Oc0068630	X		X	X		X		
109	T24-B	Oct 26, 2023		Soil	B23-Oc0068631	X		X	X		X		

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Received: Oct 26, 2023 6:15 PM
Due: Nov 3, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
110	T24-W1	Oct 26, 2023		Soil	B23-Oc0068632	X		X	X		X		
111	T24-W2	Oct 26, 2023		Soil	B23-Oc0068633	X		X	X		X		
112	QC106	Oct 26, 2023		Soil	B23-Oc0068634			X	X		X		
113	QC107	Oct 26, 2023		Soil	B23-Oc0068635			X	X		X		
114	QC108	Oct 26, 2023		Soil	B23-Oc0068636			X	X		X		
115	QC109	Oct 26, 2023		Soil	B23-Oc0068637			X	X		X		
116	QC110	Oct 26, 2023		Soil	B23-Oc0068638			X	X		X		
117	QC111	Oct 26, 2023		Soil	B23-Oc0068639			X	X		X		
118	QC112	Oct 26, 2023		Soil	B23-Oc0068640			X	X		X		
119	QC113	Oct 26, 2023		Soil	B23-Oc0068641			X	X		X		
120	QC114	Oct 26, 2023		Soil	B23-Oc0068642			X	X		X		
121	QC115	Oct 26, 2023		Soil	B23-Oc0068643			X	X		X		
122	QC116	Oct 26, 2023		Soil	B23-Oc0068644			X	X		X		
123	QC117	Oct 26, 2023		Soil	B23-Oc0068645			X	X		X		

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Sample Detail						Asbestos - WA guidelines	Organochlorine Pesticides	Organochlorine Pesticides	Metals M8	Suite B14: OCP/OPP	Moisture Set	Eurofins Suite B4	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X		X			
Sydney Laboratory - NATA # 1261 Site # 18217						X							
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X	X	X	X
124	QC118	Oct 26, 2023		Soil	B23-Oc0068646			X	X		X		
125	QC119	Oct 26, 2023		Soil	B23-Oc0068647			X	X		X		
126	QC120	Oct 26, 2023		Soil	B23-Oc0068648			X	X		X		
127	QC121	Oct 26, 2023		Soil	B23-Oc0068649			X	X		X		
128	QC122	Oct 26, 2023		Water	B23-Oc0068650		X		X				
129	QC123	Oct 26, 2023		Water	B23-Oc0068651		X		X				
130	Trip Blank	Oct 26, 2023		Trip Blank (solid)	B23-Oc0068652			X					
Test Counts						111	124	124	123	6	127	6	6

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-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	
g-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							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	93			70-130	Pass	
4,4'-DDD	%	84			70-130	Pass	
4,4'-DDE	%	90			70-130	Pass	
4,4'-DDT	%	88			70-130	Pass	
a-HCH	%	91			70-130	Pass	
Aldrin	%	92			70-130	Pass	
b-HCH	%	117			70-130	Pass	
d-HCH	%	92			70-130	Pass	
Dieldrin	%	84			70-130	Pass	
Endosulfan I	%	90			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	
Endosulfan sulphate	%	79			70-130	Pass	
Endrin	%	120			70-130	Pass	
Endrin aldehyde	%	89			70-130	Pass	
Endrin ketone	%	78			70-130	Pass	
g-HCH (Lindane)	%	95			70-130	Pass	
Heptachlor	%	115			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide			%	94			70-130	Pass	
Hexachlorobenzene			%	99			70-130	Pass	
Methoxychlor			%	104			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	105			80-120	Pass	
Cadmium			%	104			80-120	Pass	
Chromium			%	102			80-120	Pass	
Copper			%	98			80-120	Pass	
Lead			%	97			80-120	Pass	
Mercury			%	104			80-120	Pass	
Nickel			%	102			80-120	Pass	
Zinc			%	102			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	M23-Oc0074478	NCP	%	105			70-130	Pass	
4.4'-DDD	M23-Oc0074478	NCP	%	104			70-130	Pass	
4.4'-DDE	M23-Oc0074478	NCP	%	103			70-130	Pass	
4.4'-DDT	M23-Oc0074478	NCP	%	115			70-130	Pass	
a-HCH	M23-Oc0074478	NCP	%	110			70-130	Pass	
Aldrin	M23-Oc0074478	NCP	%	102			70-130	Pass	
b-HCH	M23-Oc0074478	NCP	%	118			70-130	Pass	
d-HCH	M23-Oc0074478	NCP	%	120			70-130	Pass	
Dieldrin	M23-Oc0074478	NCP	%	97			70-130	Pass	
Endosulfan I	M23-Oc0074478	NCP	%	98			70-130	Pass	
Endosulfan II	M23-Oc0074478	NCP	%	112			70-130	Pass	
Endosulfan sulphate	M23-Oc0074478	NCP	%	106			70-130	Pass	
Endrin	M23-Oc0074478	NCP	%	126			70-130	Pass	
Endrin aldehyde	M23-Oc0074478	NCP	%	102			70-130	Pass	
Endrin ketone	M23-Oc0074478	NCP	%	93			70-130	Pass	
g-HCH (Lindane)	M23-Oc0074478	NCP	%	115			70-130	Pass	
Heptachlor	M23-Oc0074478	NCP	%	121			70-130	Pass	
Heptachlor epoxide	M23-Oc0074478	NCP	%	109			70-130	Pass	
Hexachlorobenzene	M23-Oc0074478	NCP	%	116			70-130	Pass	
Methoxychlor	M23-Oc0074478	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-Oc0068651	CP	%	110			75-125	Pass	
Cadmium	B23-Oc0068651	CP	%	111			75-125	Pass	
Chromium	B23-Oc0068651	CP	%	105			75-125	Pass	
Copper	B23-Oc0068651	CP	%	101			75-125	Pass	
Lead	B23-Oc0068651	CP	%	103			75-125	Pass	
Mercury	B23-Oc0068651	CP	%	120			75-125	Pass	
Nickel	B23-Oc0068651	CP	%	101			75-125	Pass	
Zinc	B23-Oc0068651	CP	%	97			75-125	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-Oc0069437	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	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			
a-HCH	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	L23-Oc0069437	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	L23-Oc0069437	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-Oc0071864	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chromium	B23-No0002968	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	B23-Oc0071864	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	B23-No0002968	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	B23-Oc0071864	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	B23-Oc0071864	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	B23-Oc0074133	NCP	mg/L	0.010	0.010	1.3	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

Authorised by:

Jonathon Angell	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Metal

Glenn Jackson
Managing Director

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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From: Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Sent: Monday, 6 November 2023 11:19 AM

To: Zoe Flynn <ZoeFlynn@eurofins.com>

Subject: Eurofins Test Results - Report 1039102 : Site DVA Greenslopes (278300) - Additional Testing

CAUTION: EXTERNAL EMAIL -

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Hi Zoe

Can you please complete the following additional testing under a new batch number.

8-metals on the following samples:

IF01	B23-Oc0068604
IF02	B23-Oc0068605
IF03	B23-Oc0068606
IF04	B23-Oc0068607
IF05	B23-Oc0068608
IF06	B23-Oc0068609

1042081

Hexavalent Chromium (Cr VI) on the following samples:

T18-B	B23-Oc0068613
T21-B	B23-Oc0068622
B1	B23-Oc0068533
D8	B23-Oc0068560
H10	B23-Oc0068602
T24-B	B23-Oc0068631
T22-B	B23-Oc0068625
QC114	B23-Oc0068642
D4	B23-Oc0068556
F10	B23-Oc0068582
G10	B23-Oc0068592
C7	B23-Oc0068549
E2	B23-Oc0068564
E4	B23-Oc0068566
G3	B23-Oc0068585

Can you please re-run mercury on the following samples:

A10	B23-Oc0068532
C10	B23-Oc0068552
D10	B23-Oc0068562

Best regards

Jeremy Wicks | Queensland Practice Leader Site Assessment and Remediation
Direct +61 7 3239 9357 | Business +61 7 3239 9300 | Mobile +61 435 956 733 | jeremy.wicks@tetrattech.com

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Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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Eurofins Environment Testing NZ Ltd

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DVA Greenslopes
Project ID:	278300
Turnaround time:	5 Day
Date/Time received	Nov 6, 2023 11:19 AM
Eurofins reference	1042081

Sample Information

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

Notes

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1042081
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Nov 6, 2023 11:19 AM
Due: Nov 13, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Chromium (hexavalent)	Mercury	Metals M8	Moisture Set	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X			X	X
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	IF01	Oct 26, 2023		Soil	B23-No0017093			X		X
2	IF02	Oct 26, 2023		Soil	B23-No0017094			X		X
3	IF03	Oct 26, 2023		Soil	B23-No0017095			X		X
4	IF04	Oct 26, 2023		Soil	B23-No0017096			X		X
5	IF05	Oct 26, 2023		Soil	B23-No0017097			X		X
6	IF06	Oct 26, 2023		Soil	B23-No0017098			X		X
7	T18-B	Oct 26, 2023		Soil	B23-No0017099	X			X	
8	T21-B	Oct 26, 2023		Soil	B23-No0017100	X			X	
9	B1	Oct 26, 2023		Soil	B23-No0017101	X			X	
10	D8	Oct 26, 2023		Soil	B23-No0017102	X			X	
11	H10	Oct 26, 2023		Soil	B23-No0017103	X			X	
12	T24-B	Oct 26, 2023		Soil	B23-No0017104	X			X	



Eurofins Environment Testing Australia Pty Ltd

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1042081
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Nov 6, 2023 11:19 AM
Due: Nov 13, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Chromium (hexavalent)	Mercury	Metals M8	Moisture Set	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X			X	X
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X
13	T22-B	Oct 26, 2023		Soil	B23-No0017105	X			X	
14	QC114	Oct 26, 2023		Soil	B23-No0017106	X			X	
15	D4	Oct 26, 2023		Soil	B23-No0017107	X			X	
16	F10	Oct 26, 2023		Soil	B23-No0017108	X			X	
17	G10	Oct 26, 2023		Soil	B23-No0017109	X			X	
18	C7	Oct 26, 2023		Soil	B23-No0017110	X			X	
19	E2	Oct 26, 2023		Soil	B23-No0017111	X			X	
20	E4	Oct 26, 2023		Soil	B23-No0017112	X			X	
21	G3	Oct 26, 2023		Soil	B23-No0017113	X			X	
22	A10	Oct 26, 2023		Soil	B23-No0017114		X			X
23	C10	Oct 26, 2023		Soil	B23-No0017115		X			X
24	D10	Oct 26, 2023		Soil	B23-No0017116		X			X
Test Counts						15	3	6	24	24

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

Accredited for compliance with ISO/IEC 17025 – Testing
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 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: **Jeremy Wicks**

Report **1042081-S**
Project name **DVA Greenslopes**
Project ID **278300**
Received Date **Nov 06, 2023**

Client Sample ID			IF01	IF02	IF03	IF04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017093	B23- No0017094	B23- No0017095	B23- No0017096
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	5.1	4.5	3.3
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	140	220	260	230
Copper	5	mg/kg	67	89	120	100
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	38	62	72	57
Zinc	5	mg/kg	29	38	51	39
Sample Properties						
% Moisture	1	%	2.4	< 1	< 1	< 1

Client Sample ID			IF05	IF06	T18-B	T21-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017097	B23- No0017098	B23- No0017099	B23- No0017100
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.0	2.1	-	-
Cadmium	0.5	mg/kg	< 0.5	< 0.5	-	-
Chromium	5	mg/kg	190	190	-	-
Copper	5	mg/kg	89	79	-	-
Lead	5	mg/kg	< 5	< 5	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	54	49	-	-
Zinc	5	mg/kg	39	35	-	-
Sample Properties						
% Moisture	1	%	2.8	2.4	3.3	5.8
Chromium (hexavalent)	1	mg/kg	-	-	< 1	< 1

Client Sample ID			B1	D8	H10	T24-B
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017101	B23- No0017102	B23- No0017103	B23- No0017104
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	< 1	3.3	2.9	5.3
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			T22-B	QC114	D4	F10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017105	B23- No0017106	B23- No0017107	B23- No0017108
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	4.4	2.0	2.1	2.6
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			G10	C7	E2	E4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017109	B23- No0017110	B23- No0017111	B23- No0017112
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	5.0	3.8	6.2	3.1
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			G3	A10	C10	D10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- No0017113	B23- No0017114	B23- No0017115	B23- No0017116
Date Sampled			Oct 26, 2023	Oct 26, 2023	Oct 26, 2023	Oct 26, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury	0.1	mg/kg	-	0.3	3.8	0.1
Sample Properties						
% Moisture	1	%	2.6	3.7	6.5	1.4
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Nov 09, 2023	28 Days
Mercury - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Nov 09, 2023	28 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Nov 09, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Nov 08, 2023	14 Days

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1042081
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Nov 6, 2023 11:19 AM
Due: Nov 13, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Chromium (hexavalent)	Mercury	Metals M8	Moisture Set	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X			X	X
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	IF01	Oct 26, 2023		Soil	B23-No0017093			X		X
2	IF02	Oct 26, 2023		Soil	B23-No0017094			X		X
3	IF03	Oct 26, 2023		Soil	B23-No0017095			X		X
4	IF04	Oct 26, 2023		Soil	B23-No0017096			X		X
5	IF05	Oct 26, 2023		Soil	B23-No0017097			X		X
6	IF06	Oct 26, 2023		Soil	B23-No0017098			X		X
7	T18-B	Oct 26, 2023		Soil	B23-No0017099	X			X	
8	T21-B	Oct 26, 2023		Soil	B23-No0017100	X			X	
9	B1	Oct 26, 2023		Soil	B23-No0017101	X			X	
10	D8	Oct 26, 2023		Soil	B23-No0017102	X			X	
11	H10	Oct 26, 2023		Soil	B23-No0017103	X			X	
12	T24-B	Oct 26, 2023		Soil	B23-No0017104	X			X	

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

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

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: DVA Greenslopes
Project ID: 278300

Order No.:
Report #: 1042081
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Nov 6, 2023 11:19 AM
Due: Nov 13, 2023
Priority: 5 Day
Contact Name: Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Chromium (hexavalent)	Mercury	Metals M8	Moisture Set	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X			X	X
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X	X	X
13	T22-B	Oct 26, 2023		Soil	B23-No0017105	X			X	
14	QC114	Oct 26, 2023		Soil	B23-No0017106	X			X	
15	D4	Oct 26, 2023		Soil	B23-No0017107	X			X	
16	F10	Oct 26, 2023		Soil	B23-No0017108	X			X	
17	G10	Oct 26, 2023		Soil	B23-No0017109	X			X	
18	C7	Oct 26, 2023		Soil	B23-No0017110	X			X	
19	E2	Oct 26, 2023		Soil	B23-No0017111	X			X	
20	E4	Oct 26, 2023		Soil	B23-No0017112	X			X	
21	G3	Oct 26, 2023		Soil	B23-No0017113	X			X	
22	A10	Oct 26, 2023		Soil	B23-No0017114		X			X
23	C10	Oct 26, 2023		Soil	B23-No0017115		X			X
24	D10	Oct 26, 2023		Soil	B23-No0017116		X			X
Test Counts						15	3	6	24	24

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

Holding times apply from the 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

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

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Heavy Metals										
Arsenic				mg/kg	< 2			2	Pass	
Cadmium				mg/kg	< 0.5			0.5	Pass	
Chromium				mg/kg	< 5			5	Pass	
Copper				mg/kg	< 5			5	Pass	
Lead				mg/kg	< 5			5	Pass	
Mercury				mg/kg	< 0.1			0.1	Pass	
Nickel				mg/kg	< 5			5	Pass	
Zinc				mg/kg	< 5			5	Pass	
Method Blank										
Chromium (hexavalent)				mg/kg	< 1			1	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	95			80-120	Pass	
Cadmium				%	96			80-120	Pass	
Chromium				%	120			80-120	Pass	
Copper				%	93			80-120	Pass	
Lead				%	93			80-120	Pass	
Mercury				%	117			80-120	Pass	
Nickel				%	111			80-120	Pass	
Zinc				%	118			80-120	Pass	
LCS - % Recovery										
Chromium (hexavalent)				%	95			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals					Result 1					
Chromium	B23-No0014923	NCP	%	95				75-125	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	B23-No0017094	CP	%	83				75-125	Pass	
Cadmium	B23-No0017094	CP	%	88				75-125	Pass	
Copper	B23-No0017094	CP	%	96				75-125	Pass	
Lead	B23-No0017094	CP	%	86				75-125	Pass	
Mercury	B23-No0017094	CP	%	83				75-125	Pass	
Nickel	B23-No0017094	CP	%	111				75-125	Pass	
Zinc	B23-No0017094	CP	%	115				75-125	Pass	
Spike - % Recovery										
					Result 1					
Chromium (hexavalent)	B23-No0017113	CP	%	92				70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals					Result 1	Result 2	RPD			
Arsenic	B23-No0014921	NCP	mg/kg	< 2	< 2	<1	30%	Pass		
Lead	B23-No0014071	NCP	mg/kg	18	13	28	30%	Pass		
Mercury	B23-No0014071	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Cadmium	B23-No0017098	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-No0017098	CP	mg/kg	190	160	15	30%	Pass
Copper	B23-No0017098	CP	mg/kg	79	71	9.7	30%	Pass
Nickel	B23-No0017098	CP	mg/kg	49	45	7.1	30%	Pass
Zinc	B23-No0017098	CP	mg/kg	35	35	1.0	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-No0017098	CP	%	2.4	2.7	14	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	B23-No0017112	CP	mg/kg	< 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

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Sample Properties
Mary Makarios	Senior Analyst-Inorganic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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+61 3 8564 5000 EnviroSampleVic@neurofins.com

Company		TETRA TECH COFFEY			Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sample(s)		AM		
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000			Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenlopes Remediation		EDD Format ESdat, EQS etc		ESDAT + EXCEL		Handed over by		AM		
Contact Name		alstair mcley			Analyses Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		8METALS		OCP		PAH		HOLD		JEREMY.WICKS@TETRATECH.COM		
Phone No		_0410996070															
Special Directions																	
Purchase Order																	
Quote ID No																	
No		Client Sample ID		Sampled Date/Time dd/mm/yyyy hh:mm		Matrix Solid (S) Water (W)											
1		HSB18		14/12/23		S		X		X		X					
2		HSB19		14/12/23		S		X		X		X					
3		HSB20		14/12/23		S		X		X		X					
4		HSB21		14/12/23		S		X		X		X					
5		HSB22		14/12/23		S		X		X		X					
6		HSB23		14/12/23		S		X		X		X					
7		HSB24		14/12/23		S		X		X		X					
8		HSB25		14/12/23		S		X		X		X					
9		HSB26		14/12/23		S		X		X		X					
10		HSB27		14/12/23		S		X		X		X					
				Total Counts				10		10		10					
Method of Shipment		<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered						<input type="checkbox"/> Postal		Name		Signature		AM		AM	
Laboratory Use Only		Received By Dylan Kassar		SVD BNE MEL PER ADL NTL DRW		Signature		Date 26/12/23		Time 1:56pm		Temperature Report No 9.5					



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

Sydney Laboratory
179 Macquarie Road, Girraween, NSW 2145
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Brisbane Laboratory
Unit 1121 Smallwood Place, Murarie, QLD 4172
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Perth Laboratory
46-48 Bantiss Road, Welshpool, WA 6106
+61 8 6253 4444 EnviroSampleWA@eurofins.com

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

Company		TETRA TECH COFFEY			Project No		282781		Project Manager		JEREMY WICKS@TETRATECH.COM		Sampler(s)		AM		
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000			Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format ES&I, E&IS etc		ESDAT + EXCEL		Handed over by		AM		
Contact Name		alistair mcley			Analyses		Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.										
Phone No		_0410936070			8METALS												
Special Directions		QC102 PLEASE SEND TO ALS FOR INTERLAB ANALYSIS			OCP												
Purchase Order					PAH												
Quote ID No					HOLD												
Client Sample ID		Sampled Date/Time dd/mm/yyyy hh:mm		Matrix Solid (S) dissolved (V)													
1		QC101		14/12/23		S		X		X		X					
2		QC102		14/12/23		S		X		X		X					
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Total Counts						2		2		2							
Method of Shipment		<input type="checkbox"/> Courier (#) <input checked="" type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal		Name		AM		Signature		AM		Date		20TH DEC	
Laboratory Use Only		Received By		SVD BNE MEL PER ADL NTL DRW		Signature				Date				Time		Temperature	
Laboratory Use Only		Received By		SVD BNE MEL PER ADL NTL DRW		Signature				Date				Time		Report No	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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

Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	DEPARTMENT OF VETERAN AFFAIRS - GREENSLOPES REMEDIATION
Project ID:	282781
Turnaround time:	10 Day
Date/Time received	Dec 20, 2023 1:56 PM
Eurofins reference	1055969

Sample Information

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

Notes

Please note: Sample has been forwarded to ALS as requested. Due to the holiday period, all standard work orders have been placed on a 10 day turnaround time.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



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

ABN: 50 005 085 521

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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ABN: 91 05 0159 898

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NZBN: 9429046024954

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Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
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Chatswood
NSW 2067

Order No.:
Report #: 1055969
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Received: Dec 20, 2023 1:56 PM
Due: Jan 8, 2024
Priority: 10 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS - GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	HSB18	Dec 14, 2023		Soil	B23-De0048798	X	X	X	X
2	HSB19	Dec 14, 2023		Soil	B23-De0048799	X	X	X	X
3	HSB20	Dec 14, 2023		Soil	B23-De0048800	X	X	X	X
4	HSB21	Dec 14, 2023		Soil	B23-De0048801	X	X	X	X
5	HSB22	Dec 14, 2023		Soil	B23-De0048802	X	X	X	X
6	HSB23	Dec 14, 2023		Soil	B23-De0048803	X	X	X	X
7	HSB24	Dec 14, 2023		Soil	B23-De0048804	X	X	X	X
8	HSB25	Dec 14, 2023		Soil	B23-De0048805	X	X	X	X
9	HSB26	Dec 14, 2023		Soil	B23-De0048806	X	X	X	X
10	HSB27	Dec 14, 2023		Soil	B23-De0048807	X	X	X	X
11	QC101	Dec 14, 2023		Soil	B23-De0048808	X	X	X	X
Test Counts						11	11	11	11

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Jeremy Wicks**

Report **1055969-S**
Project name **DEPARTMENT OF VETERAN AFFAIRS - GREENSLOPES REMEDIATION**
Project ID **282781**
Received Date **Dec 20, 2023**

Client Sample ID			HSB18	HSB19	HSB20	HSB21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- De0048798	B23- De0048799	B23- De0048800	B23- De0048801
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	82	96	101
p-Terphenyl-d14 (surr.)	1	%	83	102	88	89
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			HSB18	HSB19	HSB20	HSB21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-De0048798	B23-De0048799	B23-De0048800	B23-De0048801
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	INT	101	106	92
Tetrachloro-m-xylene (surr.)	1	%	79	77	57	64
Heavy Metals						
Arsenic	2	mg/kg	48	45	23	11
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	68	120	95	65
Copper	5	mg/kg	9.1	30	28	11
Lead	5	mg/kg	39	14	35	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	83	47	20
Zinc	5	mg/kg	62	68	130	28
Sample Properties						
% Moisture	1	%	10	22	8.6	14

Client Sample ID			HSB22	HSB23	HSB24	HSB25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-De0048802	B23-De0048803	B23-De0048804	B23-De0048805
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			HSB22	HSB23	HSB24	HSB25
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23-De0048802	B23-De0048803	B23-De0048804	B23-De0048805
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	114	102	102
p-Terphenyl-d14 (surr.)	1	%	119	100	99	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	131	114	145	INT
Tetrachloro-m-xylene (surr.)	1	%	95	95	93	76
Heavy Metals						
Arsenic	2	mg/kg	7.5	9.8	11	9.2
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	81	70	170	110
Copper	5	mg/kg	9.4	14	19	6.4
Lead	5	mg/kg	5.8	31	7.1	5.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	17	22	42	13
Zinc	5	mg/kg	15	75	38	26
Sample Properties						
% Moisture	1	%	13	17	32	15

Client Sample ID			HSB26	HSB27	QC101
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			B23-De0048806	B23-De0048807	B23-De0048808
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96	130	96
p-Terphenyl-d14 (surr.)	1	%	90	125	101
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
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	%	135	INT	88
Tetrachloro-m-xylene (surr.)	1	%	67	140	63

Client Sample ID			HSB26	HSB27	QC101
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			B23-De0048806	B23-De0048807	B23-De0048808
Date Sampled			Dec 14, 2023	Dec 14, 2023	Dec 14, 2023
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	4.7	5.7	3.9
Cadmium	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chromium	5	mg/kg	96	79	66
Copper	5	mg/kg	17	19	14
Lead	5	mg/kg	7.0	22	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	27	20
Zinc	5	mg/kg	40	150	95
Sample Properties					
% Moisture	1	%	17	16	17

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
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Brisbane	Dec 29, 2023	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP and PCB in Soil and Water	Brisbane	Dec 29, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Brisbane	Dec 29, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Dec 20, 2023	14 Days



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Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
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Order No.:
Report #: 1055969
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Fax: +61 2 9406 1004

Received: Dec 20, 2023 1:56 PM
Due: Jan 8, 2024
Priority: 10 Day
Contact Name: Jeremy Wicks

Project Name: DEPARTMENT OF VETERAN AFFAIRS - GREENSLOPES REMEDIATION
Project ID: 282781

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Polyyclic Aromatic Hydrocarbons

Organochlorine Pesticides

Metals M8

Moisture Set

Brisbane Laboratory - NATA # 1261 Site # 20794

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	HSB18	Dec 14, 2023		Soil	B23-De0048798	X	X	X	X
2	HSB19	Dec 14, 2023		Soil	B23-De0048799	X	X	X	X
3	HSB20	Dec 14, 2023		Soil	B23-De0048800	X	X	X	X
4	HSB21	Dec 14, 2023		Soil	B23-De0048801	X	X	X	X
5	HSB22	Dec 14, 2023		Soil	B23-De0048802	X	X	X	X
6	HSB23	Dec 14, 2023		Soil	B23-De0048803	X	X	X	X
7	HSB24	Dec 14, 2023		Soil	B23-De0048804	X	X	X	X
8	HSB25	Dec 14, 2023		Soil	B23-De0048805	X	X	X	X
9	HSB26	Dec 14, 2023		Soil	B23-De0048806	X	X	X	X
10	HSB27	Dec 14, 2023		Soil	B23-De0048807	X	X	X	X
11	QC101	Dec 14, 2023		Soil	B23-De0048808	X	X	X	X

Test Counts

11 11 11 11

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	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit	Colour: Pt-Co Units	

Terms

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

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthene			%	81			70-130	Pass	
Acenaphthylene			%	71			70-130	Pass	
Anthracene			%	95			70-130	Pass	
Benz(a)anthracene			%	109			70-130	Pass	
Benzo(a)pyrene			%	86			70-130	Pass	
Benzo(b&j)fluoranthene			%	73			70-130	Pass	
Benzo(g,h,i)perylene			%	72			70-130	Pass	
Benzo(k)fluoranthene			%	90			70-130	Pass	
Chrysene			%	104			70-130	Pass	
Dibenz(a,h)anthracene			%	72			70-130	Pass	
Fluoranthene			%	90			70-130	Pass	
Fluorene			%	77			70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	81			70-130	Pass	
Naphthalene			%	76			70-130	Pass	
Phenanthrene			%	72			70-130	Pass	
Pyrene			%	83			70-130	Pass	
LCS - % Recovery									
Organochlorine Pesticides									
Chlordanes - Total			%	75			70-130	Pass	
4,4'-DDD			%	82			70-130	Pass	
4,4'-DDE			%	75			70-130	Pass	
4,4'-DDT			%	75			70-130	Pass	
a-HCH			%	90			70-130	Pass	
b-HCH			%	77			70-130	Pass	
d-HCH			%	82			70-130	Pass	
Dieldrin			%	84			70-130	Pass	
Endosulfan II			%	81			70-130	Pass	
Endosulfan sulphate			%	118			70-130	Pass	
Endrin			%	77			70-130	Pass	
Endrin aldehyde			%	71			70-130	Pass	
Endrin ketone			%	72			70-130	Pass	
g-HCH (Lindane)			%	82			70-130	Pass	
Heptachlor			%	73			70-130	Pass	
Hexachlorobenzene			%	88			70-130	Pass	
Methoxychlor			%	94			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	96			80-120	Pass	
Cadmium			%	94			80-120	Pass	
Chromium			%	86			80-120	Pass	
Copper			%	86			80-120	Pass	
Lead			%	86			80-120	Pass	
Mercury			%	80			80-120	Pass	
Nickel			%	85			80-120	Pass	
Zinc			%	82			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	B23-De0048953	NCP	%	75			70-130	Pass	
Anthracene	B23-De0048953	NCP	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	B23-De0048953	NCP	%	72			70-130	Pass	
Benzo(g,h,i)perylene	B23-De0048953	NCP	%	96			70-130	Pass	
Dibenz(a,h)anthracene	B23-De0048953	NCP	%	119			70-130	Pass	
Fluorene	B23-De0048953	NCP	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	B23-De0048953	NCP	%	80			70-130	Pass	
Pyrene	B23-De0048953	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-De0048953	NCP	%	85			70-130	Pass	
4,4'-DDD	B23-De0048953	NCP	%	90			70-130	Pass	
Endosulfan II	B23-De0048953	NCP	%	104			70-130	Pass	
Heptachlor	B23-De0048953	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	B23-De0048799	CP	%	79			70-130	Pass	
Benz(a)anthracene	B23-De0048799	CP	%	109			70-130	Pass	
Benzo(a)pyrene	B23-De0048799	CP	%	77			70-130	Pass	
Benzo(k)fluoranthene	B23-De0048799	CP	%	81			70-130	Pass	
Chrysene	B23-De0048799	CP	%	95			70-130	Pass	
Fluoranthene	B23-De0048799	CP	%	70			70-130	Pass	
Indeno(1,2,3-cd)pyrene	B23-De0048799	CP	%	72			70-130	Pass	
Naphthalene	B23-De0048799	CP	%	74			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4,4'-DDE	B23-De0048799	CP	%	81			70-130	Pass	
4,4'-DDT	B23-De0048799	CP	%	111			70-130	Pass	
a-HCH	B23-De0048799	CP	%	85			70-130	Pass	
b-HCH	B23-De0048799	CP	%	83			70-130	Pass	
d-HCH	B23-De0048799	CP	%	73			70-130	Pass	
Dieldrin	B23-De0048799	CP	%	89			70-130	Pass	
Endosulfan sulphate	B23-De0048799	CP	%	110			70-130	Pass	
Endrin	B23-De0048799	CP	%	81			70-130	Pass	
Endrin aldehyde	B23-De0048799	CP	%	74			70-130	Pass	
Endrin ketone	B23-De0048799	CP	%	78			70-130	Pass	
g-HCH (Lindane)	B23-De0048799	CP	%	74			70-130	Pass	
Hexachlorobenzene	B23-De0048799	CP	%	81			70-130	Pass	
Methoxychlor	B23-De0048799	CP	%	119			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-De0048799	CP	%	75			75-125	Pass	
Cadmium	B23-De0048799	CP	%	88			75-125	Pass	
Chromium	B23-De0048799	CP	%	109			75-125	Pass	
Copper	B23-De0048799	CP	%	90			75-125	Pass	
Lead	B23-De0048799	CP	%	79			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B23-De0048804	CP	%	93			75-125	Pass	
Cadmium	B23-De0048804	CP	%	90			75-125	Pass	
Chromium	B23-De0048804	CP	%	85			75-125	Pass	
Copper	B23-De0048804	CP	%	79			75-125	Pass	
Lead	B23-De0048804	CP	%	83			75-125	Pass	
Mercury	B23-De0048804	CP	%	78			75-125	Pass	
Nickel	B23-De0048804	CP	%	75			75-125	Pass	
Zinc	B23-De0048804	CP	%	77			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	B23-De0048802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	B23-De0048802	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	B23-De0048802	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	B23-De0048802	CP	mg/kg	7.5	7.7	2.6	30%	Pass	
Chromium	B23-De0048802	CP	mg/kg	81	88	8.7	30%	Pass	
Copper	B23-De0048802	CP	mg/kg	9.4	11	18	30%	Pass	
Lead	B23-De0048802	CP	mg/kg	5.8	< 5	19	30%	Pass	
Nickel	B23-De0048802	CP	mg/kg	17	18	5.6	30%	Pass	
Zinc	B23-De0048802	CP	mg/kg	15	15	3.3	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(a)pyrene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	B23-De0048803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B23-De0048803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B23-De0048803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-De0048805	CP	%	15	9.4	47	30%	Fail
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B23-De0048807	CP	mg/kg	5.7	5.5	4.7	30%	Pass
Cadmium	B23-De0048807	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chromium	B23-De0048807	CP	mg/kg	79	76	3.4	30%	Pass
Copper	B23-De0048807	CP	mg/kg	19	18	1.5	30%	Pass
Lead	B23-De0048807	CP	mg/kg	22	17	26	30%	Pass
Mercury	B23-De0048807	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	B23-De0048807	CP	mg/kg	27	27	<1	30%	Pass
Zinc	B23-De0048807	CP	mg/kg	150	140	8.3	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
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Paige Howarth	Analytical Services Manager
Jonathon Angell	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Sarah McCallion	Senior Analyst-Organic



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Mandatory Fields				CHAIN OF CUSTODY				Page 2 of 2		ALS	
CLIENT CODE:		*PROJECT MANAGER:		SAMPLER:		CoC #: (if applicable)		BIOSECURITY			
*CLIENT:		*PM MOBILE:		SAMPLER MOBILE:							
OFFICE: (Invoiced Office)		ALS QUOTE # (Client Pl. if blank)		PURCHASE ORDER NO.:							
PROJECT NO./PROJECT:				SITE:							
*INVOICE TO: (client default if null)											
*EMAIL REPORTS TO: (Default to PM if blank)											
*STORAGE REQUIREMENTS Please check box.		Standard Storage		*TURNAROUND Please check box.		5+ days (no surcharge)		*ANALYSIS REQUIRED (NB: ALS Quote No. and/or Analysis Sub Codes must be listed to attract suite/quoted price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). Mark an X in the boxes below analysis to indicate the parameter listed above to be tested on that sample.		Country of Origin: (if not Australia)	
Standard Storage time from receipt of samples:		Extended Storage		3 day (+15%)		2 day (+30%)				WO Sticker to go here. (ALS use only)	
Specify Disposal Date:										1086693	
Waters - 3 weeks											
Soils - 2 months											
Note: Extended storage incurs a fee and requires a signed agreement.											
Comments:											
+ send QC200 to Evelyns marine pen											
*ALS Use Only		Sample ID		Depth		Date/Time		Bottles No.		Matrix: (SD, Dust (D), Product (P), Biot (B), Soils/Solids (S), Water (W), Sediments)	
Lab ID		10 QC100		D150				1		Biosolid (BS)	
11 QC200		QC200		↓				1			
12 QC300		QC300		-				1			
13 QC400		QC400		-				1			
Receipt Detail (Lab Use ONLY)		Chilling Method:		Ice:		Ice Bricks:		Sample Temp at Receipt		Security Seal Intact (circle)	
Frozen / Melted		Frozen / Thawed		None							
Relinquished by:		Signature:		Date/Time:		Received by: LP		Signature:		Date/Time:	
Relinquished by:		Signature:		Date/Time:		Received by:		Signature:		Date/Time:	

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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

Sample Receipt Advice

Company name:	Tetra Tech Coffey Environment Pty Ltd QLD
Contact name:	Jeremy Wicks
Project name:	Not provided
Project ID:	QC200
Turnaround time:	3 Day
Date/Time received	Apr 5, 2024 2:00 PM
Eurofins reference	1084693

Sample Information

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

Notes

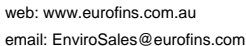
Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Jeremy Wicks - jeremy.wicks@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Environment Pty Ltd QLD email address.



ABN: 50 005 085 521

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

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Grovedale
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+61 3 8564 5000
NATA# 1261
Site# 25403

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Girraween
NSW 2145
+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
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Mitchell
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+61 2 6113 8091
NATA# 1261
Site# 25466

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

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ce 1/2 Frost Drive
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Rolleston,
Christchurch 76
+64 3 343 5201
IANZ# 1290

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

Company Name: Tetra Tech Coffey Environment Pty Ltd QLD
Address: Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Order No.:
Report #: 1084693
Phone: +61 2 9406 1000
Fax: +61 2 9406 1004

Received: Apr 5, 2024 2:00 PM
Due: Apr 10, 2024
Priority: 3 Day
Contact Name: Jeremy Wicks

Project Name:
Project ID: QC200

Eurofins Analytical Services Manager : Zoe Flynn

<div>Sample Detail</div>						Moisture Set
						Chromium (hexavalent)
						Chromium
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1		Apr 04, 2024	11:00AM	Soil	B24-Ap0012066	X
Test Counts						1

Tetra Tech Coffey Environment Pty Ltd QLD
Level 20, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Jeremy Wicks**

Report **1084693-S**

Project name

Project ID **QC200**

Received Date **Apr 05, 2024**

Client Sample ID			
Sample Matrix			Soil
Eurofins Sample No.			B24- Ap0012066
Date Sampled			Apr 04, 2024
Test/Reference	LOR	Unit	
Chromium (hexavalent)	1	mg/kg	< 1
Heavy Metals			
Chromium	5	mg/kg	170
Sample Properties			
% Moisture	1	%	3.6

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Apr 08, 2024	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Apr 08, 2024	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Apr 05, 2024	14 Days



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

ABN: 50 005 085 521						ABN: 91 05 0159 898		NZBN: 9429046024954			
Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle	Perth	Auckland	Auckland (Asb)	Christchurch	Tauranga	
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive	46-48 Banksia Road	35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,	
Dandenong South	Grovedale	Girraween	Mitchell	Murrarie	Mayfield West	Welshpool	Penrose,	Mount Wellington,	Rolleston,	Gate Pa,	
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304	WA 6106	Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112	
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448	+61 8 6253 4444	+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568	
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 2377	IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402	
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289	Site# 2370					

Company Name:

Address:

Project Name:

Project ID:

Tetra Tech Coffey Environment Pty Ltd QLD

Level 20, Tower B, Citadel Tower 799 Pacific Highway

Chatswood

NSW 2067

QC200

Order No.:

Report #:

Phone:

Fax:

1084693

+61 2 9406 1000

+61 2 9406 1004

Received:

Due:

Priority:

Contact Name:

Apr 5, 2024 2:00 PM

Apr 10, 2024

3 Day

Jeremy Wicks

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Chromium	Chromium (hexavalent)	Moisture Set
						X	X	X
Melbourne Laboratory - NATA # 1261 Site # 1254								
External Laboratory								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1		Apr 04, 2024	11:00AM	Soil	B24-Ap0012066	X	X	X
Test Counts						1	1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Chromium (hexavalent)			mg/kg	< 1			1	Pass	
Method Blank									
Heavy Metals									
Chromium			mg/kg	< 5			5	Pass	
LCS - % Recovery									
Chromium (hexavalent)			%	73			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Chromium			%	109			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M24-Ap0014046	NCP	%	101			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium	M24-Ap0015912	NCP	%	89			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M24-Ap0014192	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium	M24-Ap0016032	NCP	mg/kg	24	24	1.5	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M24-Ap0012075	NCP	%	2.5	2.1	16	30%	Pass	

Comments

Sample Integrity

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

Authorised by:

Emily O'Neill	Analytical Services Manager
Mary Makarios	Senior Analyst-Inorganic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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CERTIFICATE OF ANALYSIS

Work Order	: EB2328260	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ALISTAIR MCLAY	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 12-Sep-2023 17:11
Order number	: ----	Date Analysis Commenced	: 13-Sep-2023
C-O-C number	: ----	Issue Date	: 14-Sep-2023 21:20
Sampler	: A M		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP068 - Pesticides by GCMS: High LCS and matrix spike recovery deemed acceptable as all associated analyte results are less than LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02 TRIP	----	----	----	----
Sampling date / time					07-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2328260-001	-----	-----	-----	-----
					Result	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		10.3	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		7	----	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg		87	----	----	----	----
Copper	7440-50-8	5	mg/kg		10	----	----	----	----
Lead	7439-92-1	5	mg/kg		<5	----	----	----	----
Nickel	7440-02-0	2	mg/kg		19	----	----	----	----
Zinc	7440-66-6	5	mg/kg		13	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02 TRIP	----	----	----	----
Sampling date / time					07-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2328260-001	-----	-----	-----	-----
				Result		----	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		128	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		142	----	----	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2328260	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ALISTAIR MCLAY	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 12-Sep-2023
Order number	: ----	Date Analysis Commenced	: 13-Sep-2023
C-O-C number	: ----	Issue Date	: 14-Sep-2023
Sampler	: A M		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5293849)									
EB2327748-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	25	25	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	6	5	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	10	8	14.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	9	11	16.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	20	12	52.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	18	12	39.7	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5293851)									
EB2327748-001	Anonymous	EA055: Moisture Content	----	0.1	%	19.9	20.0	0.6	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5293848)									
EB2327748-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5293846)									
EB2328189-013	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Page : 3 of 5
 Work Order : EB2328260
 Client : TETRA TECH COFFEY PTY LTD
 Project : 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5293846) - continued									
EB2328189-013	Anonymous	EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5293849)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	104	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	111	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	112	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	114	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	92.3	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	114	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5293848)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.11785 mg/kg	91.6	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5293846)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	# 142	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	123	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	# 134	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	# 139	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 136	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 131	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	# 125	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	118	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	122	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 128	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	123	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	# 126	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	124	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	127	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	# 130	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 148	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	# 146	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 122	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result			Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5293846) - continued								
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	# 151	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	115	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	121	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5293849)							
EB2327748-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	79.1	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	94.5	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	81.0	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	100	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	91.4	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	85.4	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	84.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5293848)							
EB2327748-002	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	79.7	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5293846)							
EB2328189-017	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	# 152	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	# 141	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	# 133	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	# 136	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	# 138	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	# 165	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2328260	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ALISTAIR MCLAY	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 12-Sep-2023
Site	:	Issue Date	: 14-Sep-2023
Sampler	: A M	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- Laboratory Control outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	alpha-BHC	319-84-6	142 %	72.8-127%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	beta-BHC	319-85-7	134 %	67.5-126%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	gamma-BHC	58-89-9	139 %	72.7-127%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	delta-BHC	319-86-8	136 %	70.6-122%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	Heptachlor	76-44-8	131 %	64.8-127%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	Aldrin	309-00-2	125 %	72.4-122%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	alpha-Endosulfan	959-98-8	128 %	70.4-122%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	Dieldrin	60-57-1	126 %	69.1-124%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	beta-Endosulfan	33213-65-9	130 %	69.7-120%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	4,4'-DDD	72-54-8	148 %	61.2-124%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	Endrin aldehyde	7421-93-4	146 %	55.5-125%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	Endosulfan sulfate	1031-07-8	122 %	57.1-117%	Recovery greater than upper control limit
EP068A: Organochlorine Pesticides (OC)	QC-5293846-002	----	4,4'-DDT	50-29-3	151 %	51.9-125%	Recovery greater than upper control limit
Matrix Spike (MS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	gamma-BHC	58-89-9	152 %	70.0-136%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	Heptachlor	76-44-8	141 %	65.0-130%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	Aldrin	309-00-2	133 %	70.0-130%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	Dieldrin	60-57-1	136 %	67.0-129%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	Endrin	72-20-8	138 %	60.0-137%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2328189--017	Anonymous	4,4'-DDT	50-29-3	165 %	70.0-130%	Recovery greater than upper data quality objective



Regular Sample Surrogates

Sub-Matrix: SOIL

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP068T: Organophosphorus Pesticide Surrogate	EB2328260-001	QC02 TRIP	DEF	78-48-8	142 %	22.8-134 %	Recovery greater than upper data quality objective

Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC02 TRIP	07-Sep-2023	----	----	----	13-Sep-2023	21-Sep-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC02 TRIP	07-Sep-2023	13-Sep-2023	05-Mar-2024	✓	14-Sep-2023	05-Mar-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC02 TRIP	07-Sep-2023	13-Sep-2023	05-Oct-2023	✓	14-Sep-2023	05-Oct-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC02 TRIP	07-Sep-2023	13-Sep-2023	21-Sep-2023	✓	14-Sep-2023	23-Oct-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	10	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2328260**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ALISTAIR MCLAY	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: alistair.mclay@tetrattech.com	E-mail	: khaleda.ataei@alsglobal.com
Telephone	: ----	Telephone	: + 61 2 8784 8555
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2018COFENV0007 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: A M		

Dates

Date Samples Received	: 12-Sep-2023 17:11	Issue Date	: 12-Sep-2023
Client Requested Due Date	: 18-Sep-2023	Scheduled Reporting Date	: 18-Sep-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 7.6°C - Ice Bricks present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EP068A (solids) Organochlorine Pesticides by GCMS	SOIL - S-02 8 Metals (incl. Digestion)
EB2328260-001	07-Sep-2023 00:00	QC02 TRIP	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALISTAIR MCLAY

- *AU Certificate of Analysis - NATA (COA)	Email	alistair.mclay@tetrattech.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	alistair.mclay@tetrattech.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	alistair.mclay@tetrattech.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	alistair.mclay@tetrattech.com
- A4 - AU Tax Invoice (INV)	Email	alistair.mclay@tetrattech.com
- Chain of Custody (CoC) (COC)	Email	alistair.mclay@tetrattech.com
- EDI Format - ENMRG (ENMRG)	Email	alistair.mclay@tetrattech.com
- EDI Format - ESDAT (ESDAT)	Email	alistair.mclay@tetrattech.com

ALL INVOICE

- A4 - AU Tax Invoice (INV)	Email	ap@coffey.com
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JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)	Email	Jeremy.Wicks@tetrattech.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Jeremy.Wicks@tetrattech.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Jeremy.Wicks@tetrattech.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Jeremy.Wicks@tetrattech.com
- A4 - AU Tax Invoice (INV)	Email	Jeremy.Wicks@tetrattech.com
- Chain of Custody (CoC) (COC)	Email	Jeremy.Wicks@tetrattech.com
- EDI Format - ENMRG (ENMRG)	Email	Jeremy.Wicks@tetrattech.com
- EDI Format - ESDAT (ESDAT)	Email	Jeremy.Wicks@tetrattech.com



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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

☒ Brisbane Laboratory
Unit 1/21 Smallwood Place, Murarrie, QLD 4172
+61 7 3502 4600 EnviroSampleQLD@eurofins.com

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

☐ Melbourne Laboratory
8 Monerey Road Dandenong South VIC 3175
+61 3 8534 5000 EnviroSampleVIC@eurofins.com

Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sampler(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format		ESDAT + EXCEL		Handed over by		AM	
Contact Name		alstair mclay		Analyses Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing.		p-METALS DCP Asbestos NORM HOLD						Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		_0410996070										Email for Results		JEREMY.WICKS@TETRATECH.COM	
Special Directions		FOR QC02 PLEASE DELIVER SAMPLE TO ALS STAFFORD FOR SECONDARY ANALYSIS													
Purchase Order															
Quote ID No															
Ne		Client Sample ID		Sampled Date/Time		Matrix									
				dd/mm/yy hh:mm		Solid (S) Water (W)									
1		V11		7/09/23		S		X		X		X			
2		V12		7/09/23		S		↓		↓		↓			
3		QC01 DUP		7/09/23		S									
4		QC02 TRIP		7/09/23		S									
5		QC03 FB		7/09/23		S									
6		QC04 RB		7/09/23		S		↓		↓					
7				7/09/23		S									
8				7/09/23		S									
9				7/09/23		S									
10				7/09/23		S									
		Total Counts													
Method of Shipment		<input checked="" type="checkbox"/> Courier (#)		<input type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal		Name		AM		Signature		AM	
Received by		SYDNEY INVE/INTL/FBI/ADL/NTL/DRW		Signature				Date				Time		Temperature	
Received by		SYDNEY INVE/INTL/FBI/ADL/NTL/DRW		Signature				Date				Time		Report No	

LT 12/9/23 1711



CERTIFICATE OF ANALYSIS

Work Order	: EB2328861	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 14-Sep-2023 16:47
Order number	: ----	Date Analysis Commenced	: 19-Sep-2023
C-O-C number	: ----	Issue Date	: 26-Sep-2023 18:18
Sampler	: ----		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Layla Hafner	Acid Sulphate Soils - Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP068 - Pesticides by GCMS: Matrix spike recovery not determined due dilution of primary sample.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC04_230912	----	----	----	----
Sampling date / time					12-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2328861-001	-----	-----	-----	-----
				Result		----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		11.2	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg		27	----	----	----	----
Copper	7440-50-8	5	mg/kg		5	----	----	----	----
Lead	7439-92-1	5	mg/kg		<5	----	----	----	----
Nickel	7440-02-0	2	mg/kg		22	----	----	----	----
Zinc	7440-66-6	5	mg/kg		15	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC04_230912	----	----	----	----
Sampling date / time				12-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EB2328861-001	-----	-----	-----	-----
Result				----	----	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	110	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	65.9	----	----	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2328861	Page	: 1 of 7
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 14-Sep-2023
Order number	: ----	Date Analysis Commenced	: 19-Sep-2023
C-O-C number	: ----	Issue Date	: 26-Sep-2023
Sampler	: ----		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Layla Hafner	Acid Sulphate Soils - Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5306233)									
EB2328723-003	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	31	33	5.3	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	34	29	14.1	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	6	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	22	22	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	8	9	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	51	52	2.1	0% - 50%
EB2328882-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	2	4	50.7	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5306254)									
EB2328723-002	Anonymous	EA055: Moisture Content	----	0.1	%	15.5	16.2	4.4	0% - 20%
EB2328861-001	QC04_230912	EA055: Moisture Content	----	0.1	%	11.2	11.1	0.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5306234)									
EB2328723-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2328882-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5306242)									
EB2328799-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<1.11	<1.10	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5306242) - continued									
EB2328799-001	Anonymous	EP068: beta-BHC	319-85-7	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<2.08	<2.07	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<1.1	<1.1	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<1.1	<1.1	0.0	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5306242)									
EB2328799-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<1.11	<1.10	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 5306242) - continued									
EB2328799-001	Anonymous	EP068: Carbophenothion	786-19-6	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<1.11	<1.10	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<1.1	<1.1	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<1.1	<1.1	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5306233)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	91.2	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	104	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	99.6	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	103	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	102	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	105	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5306234)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.11785 mg/kg	77.4	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5306242)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.3	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	89.5	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.7	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.4	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	91.3	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.8	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	84.7	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	77.7	57.1	117

Matrix Spike (MS) Report

Sub-Matrix: SOIL

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5306233)							



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5306233) - continued							
EB2328723-006	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	79.3	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	88.1	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	87.1	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	94.1	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	89.7	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	85.4	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	86.6	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5306234)							
EB2328723-006	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	95.9	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5306242)							
EB2328799-002	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	# Not Determined	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	# Not Determined	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	# Not Determined	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	# Not Determined	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	# Not Determined	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	# Not Determined	70.0	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 5306242)							
EB2328799-002	Anonymous	EP068: Diazinon	333-41-5	0.5 mg/kg	# Not Determined	70.0	131
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	# Not Determined	70.0	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	# Not Determined	70.0	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	# Not Determined	70.0	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	# Not Determined	70.0	134



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2328861	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 14-Sep-2023
Site	:	Issue Date	: 26-Sep-2023
Sampler	: ----	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP068B: Organophosphorus Pesticides (OP)	QC-5306242-002	----	Dichlorvos	62-73-7	127 %	55.8-126%	Recovery greater than upper control limit

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC04_230912	12-Sep-2023	----	----	----	19-Sep-2023	26-Sep-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC04_230912	12-Sep-2023	20-Sep-2023	10-Mar-2024	✓	22-Sep-2023	10-Mar-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC04_230912	12-Sep-2023	20-Sep-2023	10-Oct-2023	✓	25-Sep-2023	10-Oct-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC04_230912	12-Sep-2023	21-Sep-2023	26-Sep-2023	✓	24-Sep-2023	31-Oct-2023	✓
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068) QC04_230912	12-Sep-2023	21-Sep-2023	26-Sep-2023	✓	24-Sep-2023	31-Oct-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2328861**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: Jeremy.Wicks@tetrattech.com	E-mail	: khaleda.ataei@alsglobal.com
Telephone	: ----	Telephone	: + 61 2 8784 8555
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2018COFENV0007 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	:		

Dates

Date Samples Received	: 14-Sep-2023 16:47	Issue Date	: 19-Sep-2023
Client Requested Due Date	: 26-Sep-2023	Scheduled Reporting Date	: 26-Sep-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 21.0°C - Ice Bricks present
Receipt Detail	: ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Asbestos analysis not required as per email directive from Alistair McLay. If you wish to discuss this further, please contact Client Services at ALSEnviro.Brisbane@alsglobal.com.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-12 OC/OP Pesticides
EB2328861-001	12-Sep-2023 00:00	QC04_230912	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICE

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com

MICHELLE MORRISON

- A4 - AU Tax Invoice (INV)

Email michelle.morrison@coffey.com

CHAIN OF CUSTODY RECORD

Eurofins Environment Testing ABN 50 005 085 521

SYDNEY LABORATORY
179 Macquarie Road, Chifley, NSW 2145
+61 2 9900 8400 EurofinsSampleLab@eurofins.com

BRISBANE LABORATORY
Unit 1/2, Smallwood Place, Murrumbidgee, QLD 4172
+61 7 3902 4600 EurofinsSampleLab@eurofins.com

PERTH LABORATORY
46-48 Banksia Road, Westwood, WA 6106
+61 8 9253 4444 EurofinsSampleLab@eurofins.com

MELBOURNE LABORATORY
31 Sandringham Road, Sandringham, VIC 3175
+61 3 9584 5000 EurofinsSampleLab@eurofins.com

Company
TETRA TECH COFFEY

Address
LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000

Contact Name
alistair mckay

Phone No
0410996070

Special Directions

Purchase Order

Quote ID No

Please deliver triplicate sample to HCS stopped for secondary analysis

Analyses

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

Client Sample ID

Sampled Date/Time
client by th mm

Matrix
Solid (S)
Water (W)

8 METALS
OCP
ASBESTOS NEPM

HOLD

Project No

282781

Project Name

DEPARTMENT OF VETERAN AFFAIRS-
Greenslopes Remediation

Project Manager

JEREMY.WICKS@TETRATECH.COM

EDD Format
Excel, EQMS etc

ESDAT - EXCEL

Sample(s)

Handed over by
AM

Email for Invoice

JEREMY.WICKS@TETRATECH.COM

Email for Results

JEREMY.WICKS@TETRATECH.COM

Containers
Change container type & size if necessary.

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

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

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

Sample Comments
/ Dangerous Goods Hazard Warning

QC01-230912 (FB)
QC02-230912 (RB)
QC03-230912
QC04-230912
QC05-230912
QC06-230912
CF01-230912
CF02-
CF03-

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Total Counts

Method of Shipment

☒ Courier (#)
☐ Hand Delivered

☐ Postal

Name

AM

Signature

AM

Date

12TH SEPT

Time

1500

Environmental Division
Brisbane
Work Order Reference
EB2328861



Telephone: +61 7 3902 4600

26 55

Please deliver to HCS
Tap blank
Tap spike



CERTIFICATE OF ANALYSIS

Work Order	: EB2329349	Page	: 1 of 3
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 20-Sep-2023 17:55
Order number	: ----	Date Analysis Commenced	: 26-Sep-2023
C-O-C number	: ----	Issue Date	: 03-Oct-2023 15:23
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

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

Signatories

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

Signatories	Position	Accreditation Category
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
The Asbestos (Fines and Fibrous) weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02_230918	----	----	----	----
				Sampling date / time	18-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2329349-001	-----	-----	-----	-----
				Result		----	----	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	----	----	----	----
Asbestos Type	1332-21-4	-	--		-	----	----	----	----
Asbestos (Trace)	1332-21-4	-	-		No	----	----	----	----
Sample weight (dry)	----	0.01	g		182	----	----	----	----
Synthetic Mineral Fibre	----	-	--		No	----	----	----	----
Organic Fibre	----	-	--		Yes	----	----	----	----
APPROVED IDENTIFIER:	----	-	--		M. TRAN	----	----	----	----
EA200N: Asbestos Quantification (non-NATA)									
∅ Asbestos (Fines and Fibrous <7mm)	1332-21-4	0.0004	g		<0.0004	----	----	----	----
∅ Asbestos (Fines and Fibrous FA+AF)	----	0.001	% (w/w)		<0.001	----	----	----	----
∅ Weight Used for % Calculation	----	0.0001	kg		0.182	----	----	----	----
∅ Fibrous Asbestos >7mm	----	0.0004	g		<0.0004	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: SOIL		
Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	QC02_230918 - 18-Sep-2023 00:00	Grey clay like soil with rock and organic matter.

Inter-Laboratory Testing

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

(SOIL) EA200N: Asbestos Quantification (non-NATA)

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



QUALITY CONTROL REPORT

Work Order	: EB2329349	Page	: 1 of 3
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 20-Sep-2023
Order number	: ----	Date Analysis Commenced	: 26-Sep-2023
C-O-C number	: ----	Issue Date	: 03-Oct-2023
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC



General Comments

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

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

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

Key :
Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
= Indicates failed QC

Laboratory Duplicate (DUP) Report

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

- **No Laboratory Duplicate (DUP) Results are required to be reported.**



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

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

- **No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.**

Matrix Spike (MS) Report

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

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**
-



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2329349	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 20-Sep-2023
Site	:	Issue Date	: 03-Oct-2023
Sampler	: AM	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200: AS 4964 - 2004 Identification of Asbestos in Soils							
Soil Glass Jar - Unpreserved (EA200) QC02_230918	18-Sep-2023	----	----	----	26-Sep-2023	16-Mar-2024	✔
EA200N: Asbestos Quantification (non-NATA)							
Soil Glass Jar - Unpreserved (EA200N) QC02_230918	18-Sep-2023	----	----	----	26-Sep-2023	16-Mar-2024	✔



Quality Control Parameter Frequency Compliance

- No Quality Control data available for this section.



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Soils	EA200	SOIL	AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	* EA200N	SOIL	Asbestos Classification and Quantitation per NEPM with Confirmation of Identification by AS 4964 - Gravimetric determination of Asbestos Containing Material, Fibrous Asbestos, Asbestos Fines and sample weight and calculation of percentage concentrations per NEPM protocols. Asbestos (Fines and Fibrous FA+AF) is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2329349**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: Jeremy.Wicks@tetrattech.com	E-mail	: khaleda.ataei@alsglobal.com
Telephone	: ----	Telephone	: + 61 2 8784 8555
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2018COFENV0007 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: AM		

Dates

Date Samples Received	: 20-Sep-2023 17:55	Issue Date	: 22-Sep-2023
Client Requested Due Date	: 04-Oct-2023	Scheduled Reporting Date	: 04-Oct-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 9.8°C - Ice Bricks present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- **Analysis will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

Method Sample ID	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
QC02_230918	- Soil Glass Jar - Unpreserved	- Snap Lock Bag: Separate bag received

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA200F Asbestos Quantitation (FA+AF) in Soil by
EB2329349-001	18-Sep-2023 00:00	QC02_230918	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICE

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com

Inter-Laboratory Testing

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

(SOIL) EA200N: Asbestos Quantification (non-NATA)

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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

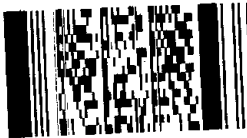
☒ **Brisbane Laboratory**
Unit 1/21 Smallwood Place, Murarrie, QLD 4172
+61 7 3902 4600 EnviroSampleQLD@eurofins.com

☐ **Perth Laboratory**
46-48 Banksia Road, Welshpool, WA 6106
+61 8 6263 4444 EnviroSampleWA@seuplins.com

McAlbourne Laboratory
Monterey Road Dandenong South VIC 3175
+61 3 8564 5000 EnviroSampleVIC@eurofins.com

1027451
WA 6106

1

Company	TETRA TECH COFFEY	Project No	282781	Project Manager	JEREMY.WICKS@TETRATECH.COM
Address	LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000	Project Name	DEPARTMENT OF VETERAN AFFAIRS. Greenslopes Remediation	EDD Format <small>ESdat, EQus etc</small>	ESDAT + EXCEL
Contact Name	alstair mclay	Analyses Where metals are requested, please specify 'Total' or 'Filtered'. SUITE code must be used to attract SUITE pricing.	<div style="border: 1px solid black; padding: 5px; margin: auto;"> Environmental Division Brisbane Work Order Reference EB2329349  Telephone : + 61-7-3243 7222 </div>	Sampler(s)	AM
Phone No	_0410996070			Handed over by	AM
Special Directions				Email for Invoice	JEREMY.WICKS@TETRATECH.COM
Purchase Order				Email for Results	JEREMY.WICKS@TETRATECH.COM
Quote ID No				Containers <small>Change container type & size if necessary</small>	Required Turnaround Time (TAT) <small>Default will be 5 days if not ticked</small>
Client Sample ID	Sampled Date/Time <small>dd/mm/yyyy hh:mm</small>	Matrix <small>Solid (S) Water (W)</small>		<input checked="" type="checkbox"/> 500mL Plastic <input type="checkbox"/> 250mL Plastic <input type="checkbox"/> 125mL Plastic <input type="checkbox"/> 200mL Amber Glass <input type="checkbox"/> 40mL VOA vial <input type="checkbox"/> 500mL PFAS Bottle <input type="checkbox"/> Jar (Glass or HDPE)	<input type="checkbox"/> Overnight (reporting by 9am)* <input type="checkbox"/> Same day ♦ <input type="checkbox"/> 1 day ♦ <input type="checkbox"/> 2 days ♦ <input type="checkbox"/> 3 days ♦ <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other ()
				<input type="checkbox"/> Surcharge will apply <input type="checkbox"/> Other (Specify AS/NZS 4594 WA guidelines)	
				Sample Comments / Dangerous Goods Hazard Warning	
(DP)	QC01 - 230918 13/10/23	S	X X X		
(MP) i	QC02	S	X		
(PB)	QC03	S			
(FB)	QC04	S			
(TB)	QC05	S			
(PS)	QC06 - 230919	S			
(FB)	QC07 - 230919	S			
(VP)	QC08	S	X X X		
(TRIP)	QC09	S	X X X		
Total Counts					
Method of Shipment	Courier (#)	<input checked="" type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	Signature	Date
			AM	AM	19th sept



CERTIFICATE OF ANALYSIS

Work Order	: EB2329798	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 22-Sep-2023 16:12
Order number	: ----	Date Analysis Commenced	: 27-Sep-2023
C-O-C number	: ----	Issue Date	: 29-Sep-2023 11:44
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC 07 _230920 (TRIP)	----	----	----	----
Sampling date / time					20-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2329798-001	-----	-----	-----	-----
				Result		----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	-----	1.0	%		10.6	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		24	----	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg		6	----	----	----	----
Copper	7440-50-8	5	mg/kg		39	----	----	----	----
Lead	7439-92-1	5	mg/kg		44	----	----	----	----
Nickel	7440-02-0	2	mg/kg		9	----	----	----	----
Zinc	7440-66-6	5	mg/kg		80	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	-----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC 07 _230920 (TRIP)	----	----	----	----
				Sampling date / time	20-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EB2329798-001	-----	-----	-----	-----	-----
				Result	----	----	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	---	---	---	---	---
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	---	---	---	---	---
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	---	---	---	---	---
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	75.6	---	---	---	---	---
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	90.8	---	---	---	---	---



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2329798	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 22-Sep-2023
Order number	: ----	Date Analysis Commenced	: 27-Sep-2023
C-O-C number	: ----	Issue Date	: 29-Sep-2023
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5324018)									
EB2329341-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	11	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	2	2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	30	27	11.1	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	51	50	0.0	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5324026)									
EB2329341-001	Anonymous	EA055: Moisture Content	----	0.1	%	29.6	29.8	0.9	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5324019)									
EB2329341-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5324022)									
EB2329341-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Page : 3 of 5
 Work Order : EB2329798
 Client : TETRA TECH COFFEY PTY LTD
 Project : 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5324022) - continued									
EB2329341-001	Anonymous	EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5324018)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	85.9	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	86.0	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	86.2	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	90.1	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	89.8	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	94.2	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5324019)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.08985 mg/kg	98.7	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5324022)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	93.9	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	94.1	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.7	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	106	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	87.4	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	92.3	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	89.5	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.7	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	81.9	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.5	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	105	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	85.6	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.8	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	83.2	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP068A: Organochlorine Pesticides (OC) (QCLot: 5324022) - continued								
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	86.8	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	116	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5324018)							
EB2329342-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	94.5	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	84.2	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	89.6	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	94.1	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	85.3	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	87.1	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	82.5	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5324019)							
EB2329342-001	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	74.4	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5324022)							
EB2329798-001	QC 07 _230920 (TRIP)	EP068: gamma-BHC	58-89-9	0.5 mg/kg	95.2	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	104	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	85.8	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	81.0	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	107	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	85.8	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2329798	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 22-Sep-2023
Site	:	Issue Date	: 29-Sep-2023
Sampler	: AM	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC 07 _230920 (TRIP)	20-Sep-2023	----	----	----	27-Sep-2023	04-Oct-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC 07 _230920 (TRIP)	20-Sep-2023	27-Sep-2023	18-Mar-2024	✓	27-Sep-2023	18-Mar-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC 07 _230920 (TRIP)	20-Sep-2023	27-Sep-2023	18-Oct-2023	✓	27-Sep-2023	18-Oct-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC 07 _230920 (TRIP)	20-Sep-2023	27-Sep-2023	04-Oct-2023	✓	28-Sep-2023	06-Nov-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2329798**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: Jeremy.Wicks@tetrattech.com	E-mail	: khaleda.ataei@alsglobal.com
Telephone	: ----	Telephone	: + 61 2 8784 8555
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2018COFENV0007 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: AM		

Dates

Date Samples Received	: 22-Sep-2023 16:12	Issue Date	: 26-Sep-2023
Client Requested Due Date	: 03-Oct-2023	Scheduled Reporting Date	: 03-Oct-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 10.1°C - Ice present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

- No sample container / preservation non-compliance exists.

Any sample identifications that cannot be displayed entirely in the analysis summary table will be listed below.

EB2329798-001 : [20-Sep-2023] : QC 07 _230920 (TRIP)

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EP068A (solids) Organochlorine Pesticides by GCMS	SOIL - S-02 & Metals (incl. Digestion)
EB2329798-001	20-Sep-2023 00:00	QC 07 _230920 (TRIP)	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICE

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com

MICHELLE MORRISON

- A4 - AU Tax Invoice (INV)

Email michelle.morrison@coffey.com

[illegible]

Environmental Division
Brisbane
Work Order Reference
EB2329798



Telephone : + 61-7-3243 7222

ED 22108 1612



CERTIFICATE OF ANALYSIS

Work Order	: EB2330054	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 27-Sep-2023 15:52
Order number	: ----	Date Analysis Commenced	: 29-Sep-2023
C-O-C number	: ----	Issue Date	: 05-Oct-2023 17:15
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

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

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP068 Pesticides by GCMS : High Matrix spike recovery deemed acceptable as all associated analyte results are less than LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC15_230921	----	----	----	----
Sampling date / time					21-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2330054-001	-----	-----	-----	-----
				Result		----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	-----	1.0	%		19.2	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg		58	----	----	----	----
Copper	7440-50-8	5	mg/kg		11	----	----	----	----
Lead	7439-92-1	5	mg/kg		<5	----	----	----	----
Nickel	7440-02-0	2	mg/kg		36	----	----	----	----
Zinc	7440-66-6	5	mg/kg		16	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	-----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC15_230921	----	----	----	----
				Sampling date / time	21-Sep-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EB2330054-001	-----	-----	-----	-----	
				Result	----	----	----	----	
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	---	---	---	---	
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	---	---	---	---	
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	---	---	---	---	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	84.7	---	---	---	---	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	102	---	---	---	---	



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2330054	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 27-Sep-2023
Order number	: ----	Date Analysis Commenced	: 29-Sep-2023
C-O-C number	: ----	Issue Date	: 05-Oct-2023
Sampler	: AM		
Site	:		
Quote number	: EN/222		
No. of samples received	: 1		
No. of samples analysed	: 1		



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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5331190)									
EB2330171-014	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	29	28	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	20	20	0.0	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	19	19	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	42	44	5.8	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	36	35	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	73	74	1.8	0% - 50%
EB2330048-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	13	15	11.9	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	8	12	33.6	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	16	23	35.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	20	23	17.9	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	8	20.7	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	30	36	17.5	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5331203)									
EB2330048-001	Anonymous	EA055: Moisture Content	----	0.1	%	4.2	4.0	3.0	No Limit
EB2330171-013	Anonymous	EA055: Moisture Content	----	0.1	%	16.2	17.0	4.8	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5331191)									
EB2330171-015	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2330048-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5331194)									
EB2330054-001	QC15_230921	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5331194) - continued									
EB2330054-001	QC15_230921	EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5331190)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	104	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	102	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	107	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	105	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	104	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	113	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5331191)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.11785 mg/kg	94.4	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5331194)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	116	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	92.3	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	114	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	116	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	101	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	94.6	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	103	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	86.5	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	101	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	87.2	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.2	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.1	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	102	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result			Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5331194) - continued								
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	95.9	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	68.6	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	93.1	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5331190)							
EB2330052-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	75.8	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.8	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	98.1	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	98.0	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	95.2	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	98.5	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	94.9	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5331191)							
EB2330052-001	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	88.1	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5331194)							
EB2330058-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	135	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	# 136	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	# 140	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	# 139	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	# 141	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	126	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2330054	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: + 61 2 8784 8555
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Date Samples Received	: 27-Sep-2023
Site	:	Issue Date	: 05-Oct-2023
Sampler	: AM	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	EB2330058--001	Anonymous	Heptachlor	76-44-8	136 %	65.0-130%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2330058--001	Anonymous	Aldrin	309-00-2	140 %	70.0-130%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2330058--001	Anonymous	Dieldrin	60-57-1	139 %	67.0-129%	Recovery greater than upper data quality objective
EP068A: Organochlorine Pesticides (OC)	EB2330058--001	Anonymous	Endrin	72-20-8	141 %	60.0-137%	Recovery greater than upper data quality objective

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC15_230921	21-Sep-2023	----	----	----	29-Sep-2023	05-Oct-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC15_230921	21-Sep-2023	03-Oct-2023	19-Mar-2024	✓	03-Oct-2023	19-Mar-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC15_230921	21-Sep-2023	03-Oct-2023	19-Oct-2023	✓	04-Oct-2023	19-Oct-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC15_230921	21-Sep-2023	03-Oct-2023	05-Oct-2023	✓	04-Oct-2023	12-Nov-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2330054**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Khaleda Ataei
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: Jeremy.Wicks@tetrattech.com	E-mail	: khaleda.ataei@alsglobal.com
Telephone	: ----	Telephone	: + 61 2 8784 8555
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2018COFENV0007 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: AM		

Dates

Date Samples Received	: 27-Sep-2023 15:52	Issue Date	: 29-Sep-2023
Client Requested Due Date	: 05-Oct-2023	Scheduled Reporting Date	: 05-Oct-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 12.1°C - Ice Bricks present
Receipt Detail	: SMALL ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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

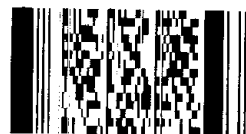
☒ Brisbane Laboratory
Unit 1/21 Smallwood Place, Murarie, QLD 4172
+61 7 3902 4600 EnviroSampleQLD@eurofins.com

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

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

Company		TETRA TECH COFFEY		Project No		282781		Project Manager		JEREMY.WICKS@TETRATECH.COM		Sampler(s)		AM	
Address		LEVEL 5, 12 CREEK STREET, BRISBANE CBD 4000		Project Name		DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation		EDD Format		ESDAT + EXCEL		Handed over by		AM	
Contact Name		alistair mclay		Analyses Where multiple are requested please specify "Total" or "Split" Split costs must be used to allow SATE pricing		8 METALS		OCP		ACM - NEDM		Email for Invoice		JEREMY.WICKS@TETRATECH.COM	
Phone No		_0410996070				HOLD		Email for Results		JEREMY.WICKS@TETRATECH.COM					
Special Directions		* QC IS TRIPPLICATE SAMPLE TO ALS STANDARD													
Purchase Order												Containers		Required Turnaround Time (TAT)	
Quote ID No															
No	Client Sample ID	Sampled Date/Time	Matrix											Sample Comments / Dangerous Goods Hazard Warning	
1	QC 11 - 230921 (FB)	21.9.27	S	X	X										
2	QC 12 - (FB)		S												
3	QC 13 - (FB)		S												
4	QC 14 - (Dup)		S												
5	QC 15 - (Tar)		S												
6			S												
7			S												
8			S												
9			S												
10			S												
Total Counts															
Method of Shipment		<input checked="" type="checkbox"/> Courier (#)		<input type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal		Name		AM		Signature		Date	
Laboratory Use Only		Received By		Received By		Received By		Received By		Received By		Received By		Received By	

Environmental Division
Brisbane
Work Order Reference
EB2330054



Telephone : + 61-7-3243 7222

* Please send to
ALS standard

25 2

21/9/27

1552 20 27/9



CERTIFICATE OF ANALYSIS

Work Order : **EB2332532**
Client : **TETRA TECH COFFEY PTY LTD**
Contact : JEREMY WICKS
Address : LEVEL 5 12 CREEK STREET
BRISBANE QLD, AUSTRALIA 4000
Telephone : ----
Project : 278300 DVA
Order number : ----
C-O-C number : ----
Sampler : A M
Site :
Quote number : EN/000
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 5
Laboratory : Environmental Division Brisbane
Contact : Jason Dighton
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 18-Oct-2023 15:07
Date Analysis Commenced : 19-Oct-2023
Issue Date : 26-Oct-2023 13:59



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

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

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02_Trip	QC04_Trip	----	----	----
Sampling date / time					16-Oct-2023 00:00	16-Oct-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EB2332532-001	EB2332532-002	-----	-----	-----
					Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	-----	1.0	%		1.6	6.8	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		7	7	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		11	10	----	----	----
Copper	7440-50-8	5	mg/kg		10	15	----	----	----
Lead	7439-92-1	5	mg/kg		76	39	----	----	----
Nickel	7440-02-0	2	mg/kg		5	6	----	----	----
Zinc	7440-66-6	5	mg/kg		53	44	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Total Chlordane (sum)	-----	0.05	mg/kg		<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02_Trip	QC04_Trip	----	----	----
Sampling date / time					16-Oct-2023 00:00	16-Oct-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EB2332532-001	EB2332532-002	-----	-----	-----
				Result	Result		----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	<0.05	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		93.0	96.7	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		92.5	97.9	----	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2332532	Page	: 1 of 6
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Jason Dighton
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	: 278300 DVA	Date Samples Received	: 18-Oct-2023
Order number	: ----	Date Analysis Commenced	: 19-Oct-2023
C-O-C number	: ----	Issue Date	: 26-Oct-2023
Sampler	: A M		
Site	:		
Quote number	: EN/000		
No. of samples received	: 2		
No. of samples analysed	: 2		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5371216)									
EB2331735-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	11	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	11	11	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	135	136	1.2	0% - 20%
		EG005T: Lead	7439-92-1	5	mg/kg	19	19	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	295	287	2.7	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5371218)									
EB2331735-002	Anonymous	EA055: Moisture Content	----	0.1	%	2.3	2.6	14.6	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5371217)									
EB2331735-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.4	0.4	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5377051)									
EB2332535-009	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5377051) - continued									
EB2332535-009	Anonymous	EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	0.08	0.09	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	0.20	<0.05	120	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	0.08	0.09	11.8	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EB2332526-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5377051) - continued									
EB2332526-001	Anonymous	EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5371216)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	110	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	104	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	106	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	105	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	103	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	108	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5371217)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	100	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5377051)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	97.1	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	111	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	104	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.8	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	109	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	100	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	102	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	102	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	109	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	110	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	107	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	104	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.1	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.8	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	104	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	82.2	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	91.3	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP068A: Organochlorine Pesticides (OC) (QCLot: 5377051) - continued								
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	90.0	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	90.7	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	109	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5371216)							
EB2332392-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	101	70.0	130
		EG005T: Cadmium	7440-43-9	12.5 mg/kg	103	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	86.0	70.0	130
		EG005T: Copper	7440-50-8	50 mg/kg	101	70.0	130
		EG005T: Lead	7439-92-1	50 mg/kg	98.8	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	93.5	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	# Not Determined	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5371217)							
EB2332392-001	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	83.8	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5377051)							
EB2332532-001	QC02_Trip	EP068: gamma-BHC	58-89-9	0.5 mg/kg	92.6	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	99.4	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	102	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	102	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	98.8	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	89.6	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2332532	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: +61-7-3243 7222
Project	: 278300 DVA	Date Samples Received	: 18-Oct-2023
Site	:	Issue Date	: 26-Oct-2023
Sampler	: A M	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: SOIL

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EG005(ED093)T: Total Metals by ICP-AES	EB2332392--001	Anonymous	Zinc	7440-66-6	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.

Analysis Holding Time Compliance

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

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

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

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

Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC02_Trip, QC04_Trip	16-Oct-2023	----	----	----	19-Oct-2023	30-Oct-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC02_Trip, QC04_Trip	16-Oct-2023	23-Oct-2023	13-Apr-2024	✓	24-Oct-2023	13-Apr-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC02_Trip, QC04_Trip	16-Oct-2023	23-Oct-2023	13-Nov-2023	✓	25-Oct-2023	13-Nov-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC02_Trip, QC04_Trip	16-Oct-2023	25-Oct-2023	30-Oct-2023	✓	25-Oct-2023	04-Dec-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2332532**

Client : **TETRA TECH COFFEY PTY LTD**
Contact : **JEREMY WICKS**
Address : **LEVEL 5 12 CREEK STREET**
BRISBANE QLD, AUSTRALIA 4000

E-mail : **Jeremy.Wicks@tetrattech.com**
Telephone : **----**
Facsimile : **----**

Project : **278300 DVA**
Order number : **----**
C-O-C number : **----**
Site : **----**
Sampler : **A M**

Laboratory : **Environmental Division Brisbane**
Contact : **Jason Dighton**
Address : **2 Byth Street Stafford QLD Australia**
4053

E-mail : **jason.dighton@alsglobal.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Page : **1 of 2**
Quote number : **ES2023COFENV0016 (EN/000)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : **18-Oct-2023 15:07**
Client Requested Due : **26-Oct-2023**
Date

Issue Date : **19-Oct-2023**
Scheduled Reporting Date : **26-Oct-2023**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **1**
Receipt Detail : **ESKY**

Security Seal : **Not Available**
Temperature : **16.3°C - Ice Bricks present**
No. of samples received / analysed : **2 / 2**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **For your reference: ACM NEPM cannot be performed due to not receiving the appropriate container for analysis. Please contact ALSEnviro.Brisbane@alsglobal.com to discuss this.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EP068A (solids) Organochlorine Pesticides by GCMS	SOIL - S-02 8 Metals (incl. Digestion)
EB2332532-001	16-Oct-2023 00:00	QC02_Trip	✓	✓	✓
EB2332532-002	16-Oct-2023 00:00	QC04_Trip	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICE

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com

MICHELLE MORRISON

- A4 - AU Tax Invoice (INV)

Email michelle.morrison@coffey.com

CHAIN OF CUSTODY RECORD

Eurofins Environment Testing Australia Pty Ltd

☐ Sydney Laboratory

Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4500 EnviroSampleQLD@eurofins.com


☐ Perth Laboratory


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

☐ Melbourne Laboratory

6 Montezuma Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

4/4

Company Tetra Tech Coffey		Project No 278300		Project Manager Jeremy Wicks		Sampler(s) AM	
Address level 5, 12 creek street Brisbane CBD 4000		Project Name DVA		EDD Format Excel		Handed over by AM	
Contact Name ALISTAIR MCLEAY		<div style="text-align: center;"> <p>Environmental Division Brisbane</p> <p>Work Order Reference EB2332532</p>  <p>Telephone: + 61-7-3243 7222</p> </div>		Email for Invoice Jeremy.Wicks@tetratech.com		Email for Results Jeremy.Wicks@tetratech.com	
Phone No 0410996070				Containers Change container type & size if necessary.		Required Turnaround Time (TAT) Default will be 3 days if not ticked.	
Special Directions Please Send Trip Samples to ALS Stafford for Secondary analysis. *				<input type="checkbox"/> Overnight (reporting by 9am) + <input type="checkbox"/> Same day + <input type="checkbox"/> 1 day + <input type="checkbox"/> 2 days + <input type="checkbox"/> 3 days + <input checked="" type="checkbox"/> 3 days (Standard) <input type="checkbox"/> Other ()		Sample Comments / Dangerous Goods Hazard Warning	
Purchase Order				500mL Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA Vial 500mL PPAS Bottle Jar (Glass or HDPE) Other (describe container, VA required)			
Quote ID No		Analyses Where multiple analyses, please specify 'Total' or 'Element'. SUIT: each must be used to record SUITE, priority.		8 metals OCP ACM N6PM			
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Soil (S) Water (W)				
21	QC01-DVP-231016	16.10.23	S	X	X	X	
22	QC02-TRIP						
23	QC03-DVP						
24	QC04-TRIP						
25	QC05-RB						
26	QC06-FB		W				
27	QC07-TB						
28							
29							
30							
Total Counts				7	7	4	

Method of Shipment	<input type="checkbox"/> Courier (#)	<input checked="" type="checkbox"/> Hand Delivered	<input type="checkbox"/> Postal	Name ALISTAIR MCLEAY	Signature 	Date 16/10/23	Time 16:30
--------------------	--------------------------------------	--	---------------------------------	--------------------------------	--	-------------------------	----------------------



CERTIFICATE OF ANALYSIS

Work Order : **EB2334519**
Client : **TETRA TECH COFFEY PTY LTD**
Contact : JEREMY WICKS
Address : LEVEL 5 12 CREEK STREET
BRISBANE QLD, AUSTRALIA 4000
Telephone : ----
Project : Site DVA Greenslopes (278300)
Order number : ----
C-O-C number : ----
Sampler : ----
Site :
Quote number : EN/000
No. of samples received : 8
No. of samples analysed : 8

Page : 1 of 7
Laboratory : Environmental Division Brisbane
Contact : Jason Dighton
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 03-Nov-2023 15:48
Date Analysis Commenced : 06-Nov-2023
Issue Date : 09-Nov-2023 11:29



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EG005T (Total Metals by ICP-AES): Sample QC107 (EB2334519-001) shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				QC107	QC109	QC111	QC113	QC115
Sampling date / time				26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00
Compound	CAS Number	LOR	Unit	EB2334519-001	EB2334519-002	EB2334519-003	EB2334519-004	EB2334519-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	<1.0	4.5	1.3	17.4	2.3
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	56	35	38	48	85
Copper	7440-50-8	5	mg/kg	22	<5	7	25	14
Lead	7439-92-1	5	mg/kg	<5	9	8	7	<5
Nickel	7440-02-0	2	mg/kg	14	9	13	15	19
Zinc	7440-66-6	5	mg/kg	13	10	15	25	18
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.65	0.72	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.35	0.38	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.30	0.34	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.70	<0.05	<0.05	<0.05
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC107	QC109	QC111	QC113	QC115
Sampling date / time					26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00
Compound	CAS Number	LOR	Unit		EB2334519-001	EB2334519-002	EB2334519-003	EB2334519-004	EB2334519-005
					Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	0.70	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	<0.05	<0.05	<0.05	<0.05
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		98.1	103	90.4	89.0	92.4
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		77.0	82.2	66.5	74.0	76.1



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC117	QC119	QC121	----	----
Sampling date / time					26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2334519-006	EB2334519-007	EB2334519-008	-----	-----
					Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		3.9	<1.0	<1.0	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	<5	6	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg		41	35	67	----	----
Copper	7440-50-8	5	mg/kg		13	11	15	----	----
Lead	7439-92-1	5	mg/kg		31	18	15	----	----
Nickel	7440-02-0	2	mg/kg		11	17	24	----	----
Zinc	7440-66-6	5	mg/kg		100	87	37	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	0.19	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	<0.05	0.21	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	0.12	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	0.09	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	1.44	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC117	QC119	QC121	----	----
Sampling date / time					26-Oct-2023 00:00	26-Oct-2023 00:00	26-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2334519-006	EB2334519-007	EB2334519-008	-----	-----
				Result	Result	Result		----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	1.63	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		89.6	97.6	92.2	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		79.8	84.4	82.6	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134



QUALITY CONTROL REPORT

Work Order	: EB2334519	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Jason Dighton
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	: Site DVA Greenslopes (278300)	Date Samples Received	: 03-Nov-2023
Order number	: ----	Date Analysis Commenced	: 06-Nov-2023
C-O-C number	: ----	Issue Date	: 09-Nov-2023
Sampler	: ----		
Site	:		
Quote number	: EN/000		
No. of samples received	: 8		
No. of samples analysed	: 8		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5405328)									
EB2334519-001	QC107	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	56	# 72	24.7	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	14	15	7.2	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	22	21	5.1	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	<5	6	25.5	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	13	12	8.8	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5405329)									
EB2334519-001	QC107	EA055: Moisture Content	----	0.1	%	<1.0	1.0	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5405327)									
EB2334519-001	QC107	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5405325)									
EB2334519-001	QC107	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Page : 3 of 5
 Work Order : EB2334519
 Client : TETRA TECH COFFEY PTY LTD
 Project : Site DVA Greenslopes (278300)



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5405325) - continued									
EB2334519-001	QC107	EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5405328)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	69.0948 mg/kg	84.0	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.58 mg/kg	89.8	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	39.4219 mg/kg	93.1	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	48.0334 mg/kg	94.6	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.484 mg/kg	93.4	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	160.5279 mg/kg	99.9	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5405327)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	91.2	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5405325)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	99.2	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	100	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.3	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.5	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	113	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	87.6	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.1	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	90.8	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	88.7	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.0	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	83.6	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP068A: Organochlorine Pesticides (OC) (QCLot: 5405325) - continued								
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	101	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	93.9	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.7	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5405328)							
EB2334519-002	QC109	EG005T: Arsenic	7440-38-2	50 mg/kg	98.7	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	98.2	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	92.5	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	98.2	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	92.9	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	94.9	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	97.2	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5405327)							
EB2334519-002	QC109	EG035T: Mercury	7439-97-6	0.5 mg/kg	83.9	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5405325)							
EB2334519-002	QC109	EP068: gamma-BHC	58-89-9	0.5 mg/kg	103	70.0	136
		EP068: Heptachlor	76-44-8	0.5 mg/kg	103	65.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	96.7	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	101	67.0	129
		EP068: Endrin	72-20-8	0.5 mg/kg	96.1	60.0	137
		EP068: 4,4'-DDT	50-29-3	0.5 mg/kg	109	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2334519	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: +61-7-3243 7222
Project	: Site DVA Greenslopes (278300)	Date Samples Received	: 03-Nov-2023
Site	:	Issue Date	: 09-Nov-2023
Sampler	: ----	No. of samples received	: 8
Order number	: ----	No. of samples analysed	: 8

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EB2334519--001	QC107	Chromium	7440-47-3	24.7 %	0% - 20%	RPD exceeds LOR based limits

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results. This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein. Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

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

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) QC107, QC111, QC115, QC119,	QC109, QC113, QC117, QC121	26-Oct-2023	----	----	----	06-Nov-2023	09-Nov-2023	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) QC107, QC111, QC115, QC119,	QC109, QC113, QC117, QC121	26-Oct-2023	06-Nov-2023	23-Apr-2024	✓	07-Nov-2023	23-Apr-2024	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) QC107, QC111, QC115, QC119,	QC109, QC113, QC117, QC121	26-Oct-2023	06-Nov-2023	23-Nov-2023	✓	08-Nov-2023	23-Nov-2023	✓
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068) QC107, QC111, QC115, QC119,	QC109, QC113, QC117, QC121	26-Oct-2023	06-Nov-2023	09-Nov-2023	✓	08-Nov-2023	16-Dec-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	8	12.50	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2334519**

Client : **TETRA TECH COFFEY PTY LTD**
Contact : **JEREMY WICKS**
Address : **LEVEL 5 12 CREEK STREET**
BRISBANE QLD, AUSTRALIA 4000

E-mail : **Jeremy.Wicks@tetrattech.com**
Telephone : **----**
Facsimile : **----**

Project : **Site DVA Greenslopes (278300)**
Order number : **----**
C-O-C number : **----**
Site : **----**
Sampler : **----**

Laboratory : **Environmental Division Brisbane**
Contact : **Jason Dighton**
Address : **2 Byth Street Stafford QLD Australia**
4053

E-mail : **jason.dighton@alsglobal.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Page : **1 of 2**
Quote number : **ES2023COFENV0016 (EN/000)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : **03-Nov-2023 15:48**
Client Requested Due : **10-Nov-2023**
Date : **----**

Issue Date : **04-Nov-2023**
Scheduled Reporting Date : **10-Nov-2023**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **1**
Receipt Detail : **MEDIUM HARD ESKY**

Security Seal : **Intact.**
Temperature : **10.2°C - Ice Bricks present**
No. of samples received / analysed : **8 / 8**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Please note that where no sampling date is listed on the Chain of Custody, the date on the sample containers received has been assigned. Should you wish to alter this, please contact ALS Brisbane Client Services Department at ALSEnviro.Brisbane@alsglobal.com**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

RE: Eurofins Sample Receipt Advice - Report 1039102 : Site DVA Geenslopes (278300)

Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Fri 03/11/23 9:41 AM

To: Zoe Flynn <ZoeFlynn@eurofins.com>

Cc: #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>; Page, Michael <Michael.Page@tetrattech.com>

EH
03.11.23
1548

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins. Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Zoe

Are we on track for receiving these results today? I can see in the eCOC that the instruction to send the triplicate samples to ALS was accidentally not included. Can you please send the following samples to ALS for analysis of 8-Metals and OCPs.

1 QC107
2 QC109
3 QC111
4 QC113
5 QC115
6 QC117
7 QC119
8 QC121

Environmental Division
Brisbane
Work Order Reference
EB2334519



Telephone: +61-7-3243 7222

Best regards

Jeremy Wicks | Queensland Practice Leader Site Assessment and Remediation

Direct +61 7 3239 9357 | Business +61 7 3239 9300 | Mobile +61 435 955 733 | jeremy.wicks@tetrattech.com

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From: EnviroSampleBris@eurofins.com <EnviroSampleBris@eurofins.com>

Sent: Monday, 30 October 2023 3:51 PM

To: Wicks, Jeremy <Jeremy.Wicks@tetrattech.com>

Subject: Eurofins Sample Receipt Advice - Report 1039102 : Site DVA Geenslopes (278300)

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.



Dear Jeremy,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2340686**

Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Jason Dighton
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: Jeremy.Wicks@tetrattech.com	E-mail	: jason.dighton@alsglobal.com
Telephone	: ----	Telephone	: +61-7-3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 282781 DEPARTMENT OF VETERAN AFFAIRS- Greenslopes Remediation	Page	: 1 of 2
Order number	: ----	Quote number	: ES2023COFENV0016 (EN/000)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: AM		

Dates

Date Samples Received	: 21-Dec-2023 14:55	Issue Date	: 21-Dec-2023
Client Requested Due Date	: 08-Jan-2024	Scheduled Reporting Date	: 08-Jan-2024

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 13.9°C - Ice Bricks present
Receipt Detail	: MEDIUM FOAM ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

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

- ### Summary of Sample(s) and Requested Analysis

Matrix: SOIL

Proactive Holding Time Report

Requested Deliverables

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

[illegible]



CERTIFICATE OF ANALYSIS

Work Order : **EB2340686**

Amendment : **1**

Client : **TETRA TECH COFFEY PTY LTD**

Contact : **JEREMY WICKS**

Address : **LEVEL 5 12 CREEK STREET
BRISBANE QLD, AUSTRALIA 4000**

Telephone : ----

Project : **282781**

Order number : ----

C-O-C number : ----

Sampler : **AM**

Site :

Quote number : **EN/000**

No. of samples received : **1**

No. of samples analysed : **1**

Page : 1 of 6

Laboratory : **Environmental Division Brisbane**

Contact : **Jason Dighton**

Address : **2 Byth Street Stafford QLD Australia 4053**

Telephone : **+61-7-3243 7222**

Date Samples Received : **21-Dec-2023 14:55**

Date Analysis Commenced : **22-Dec-2023**

Issue Date : **20-Feb-2024 15:40**



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- Amendment (20.02.24): This report has been amended to shorten project name following issue with ESDAT file uploading. All analysis results are as per the previous report.
- EP075(SIM)-PAH/Phenols (GCMS-SIM): High matrix spike recovery for EB2340664_005 deemed acceptable as all associated analyte results are less than LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC102	----	----	----	----
Sampling date / time					14-Dec-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2340686-001	-----	-----	-----	-----
					Result	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		15.4	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		5	----	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg		42	----	----	----	----
Copper	7440-50-8	5	mg/kg		16	----	----	----	----
Lead	7439-92-1	5	mg/kg		20	----	----	----	----
Nickel	7440-02-0	2	mg/kg		17	----	----	----	----
Zinc	7440-66-6	5	mg/kg		133	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC102	----	----	----	----
Sampling date / time					14-Dec-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2340686-001	-----	-----	-----	-----
					Result	----	----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg		<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC102	----	----	----	----
Sampling date / time					14-Dec-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2340686-001	-----	-----	-----	-----
				Result	----	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		0.6	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		1.2	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		101	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		91.6	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		116	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		126	----	----	----	----
2,4,6-Tribromophenol	118-79-6	0.5	%		141	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		146	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		141	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		157	----	----	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	35	154
2-Chlorophenol-D4	93951-73-6	42	153
2,4,6-Tribromophenol	118-79-6	26	157
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	34	156
Anthracene-d10	1719-06-8	37	153
4-Terphenyl-d14	1718-51-0	42	172



QUALITY CONTROL REPORT

Work Order : **EB2340686**

Page : 1 of 7

Amendment : **1**

Client : **TETRA TECH COFFEY PTY LTD**
Contact : **JEREMY WICKS**
Address : **LEVEL 5 12 CREEK STREET**
BRISBANE QLD, AUSTRALIA 4000

Telephone : ----
Project : **282781**
Order number : ----
C-O-C number : ----
Sampler : **AM**
Site :
Quote number : **EN/000**
No. of samples received : **1**
No. of samples analysed : **1**

Laboratory : **Environmental Division Brisbane**
Contact : **Jason Dighton**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **21-Dec-2023**
Date Analysis Commenced : **22-Dec-2023**
Issue Date : **20-Feb-2024**



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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD



General Comments

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

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

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

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5512148)									
EB2340524-005	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	24	25	6.7	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	18	20	8.6	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	51	53	3.6	0% - 50%
EB2340708-005	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	1	1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	29	27	7.2	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	30	28	7.5	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	28	26	4.5	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	10	9	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	84	78	6.6	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5512163)									
EB2340524-005	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	61.4	61.3	0.0	0% - 20%
EB2340708-004	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	45.3	43.1	4.9	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5512149)									
EB2340664-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EB2340708-007	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5512146)									
EB2340686-001	QC102	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5512144)									
EB2340708-008	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5512144) - continued									
EB2340708-008	Anonymous	EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EB2340664-002	Anonymous	EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
			205-82-3						
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5512148)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	100	84.0	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
EG005T: Chromium	7440-47-3	2	mg/kg	<2	13.9 mg/kg	108	83.0	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	37.2 mg/kg	107	86.0	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	44.9 mg/kg	113	84.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	12.07 mg/kg	105	81.5	118
EG005T: Zinc	7440-66-6	5	mg/kg	<5	140.7 mg/kg	100	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5512149)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09199 mg/kg	113	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5512146)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	115	72.8	127
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	105	71.0	127
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	114	67.5	126
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	115	72.7	127
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	107	70.6	122
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	102	64.8	127
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	106	72.4	122
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	97.4	67.4	125
EP068: Total Chlordane (sum)	----	0.05	mg/kg	<0.05	----	----	----	----
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	102	65.6	124
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	106	70.4	122
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	103	65.6	125
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	104	69.1	124
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	117	72.4	125
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	103	63.2	127
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	102	69.7	120
EP068: Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	# 129	61.2	124
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	116	55.5	125
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	104	57.1	117



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP068A: Organochlorine Pesticides (OC) (QCLot: 5512146) - continued								
EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	118	51.9	125
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	84.6	46.5	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	69.0	34.0	130
EP068: Sum of DDD + DDE + DDT	72-54-8/72-5 5-9/50-2	0.05	mg/kg	<0.05	----	----	----	----
EP068: Sum of Aldrin + Dieldrin	309-00-2/60- 57-1	0.05	mg/kg	<0.05	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5512144)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	1.5 mg/kg	106	72.6	133
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	1.5 mg/kg	98.1	63.2	144
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	1.5 mg/kg	111	66.0	132
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	1.5 mg/kg	118	76.2	134
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	1.5 mg/kg	114	71.8	137
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	1.5 mg/kg	122	77.1	143
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	1.5 mg/kg	124	74.1	140
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	1.5 mg/kg	123	72.0	139
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	1.5 mg/kg	120	58.0	145
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	1.5 mg/kg	126	63.0	147
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	1.5 mg/kg	99.6	70.5	142
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	1.5 mg/kg	113	75.5	138
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	1.5 mg/kg	117	68.5	140
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	1.5 mg/kg	118	58.4	143
EP075(SIM): Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	1.5 mg/kg	105	52.1	149
EP075(SIM): Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	1.5 mg/kg	107	64.6	140

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5512148)							
EB2340524-006	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	89.7	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.2	70.0	130



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5512148) - continued							
EB2340524-006	Anonymous	EG005T: Chromium	7440-47-3	50 mg/kg	98.1	70.0	130
		EG005T: Copper	7440-50-8	250 mg/kg	98.6	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	95.4	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	97.4	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	83.0	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5512149)							
EB2340664-005	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	78.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5512144)							
EB2340664-005	Anonymous	EP075(SIM): Acenaphthene	83-32-9	1.5 mg/kg	122	66.0	132
		EP075(SIM): Pyrene	129-00-0	1.5 mg/kg	129	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EB2340686**

Page : 1 of 4

Amendment : **1**

Client : **TETRA TECH COFFEY PTY LTD**

Laboratory : Environmental Division Brisbane

Contact : JEREMY WICKS

Telephone : +61-7-3243 7222

Project : 282781

Date Samples Received : 21-Dec-2023

Site :

Issue Date : 20-Feb-2024

Sampler : AM

No. of samples received : 1

Order number : ----

No. of samples analysed : 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

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



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP068A: Organochlorine Pesticides (OC)	QC-5512146-002	----	4.4'-DDD	72-54-8	129 %	61.2-124%	Recovery greater than upper control limit

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Matrix Spikes (MS)						
Pesticides by GCMS	EP068	0	1	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC102	14-Dec-2023	----	----	----	22-Dec-2023	28-Dec-2023	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC102	14-Dec-2023	29-Dec-2023	11-Jun-2024	✓	02-Jan-2024	11-Jun-2024	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC102	14-Dec-2023	29-Dec-2023	11-Jan-2024	✓	02-Jan-2024	11-Jan-2024	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) QC102	14-Dec-2023	27-Dec-2023	28-Dec-2023	✓	03-Jan-2024	05-Feb-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) QC102	14-Dec-2023	27-Dec-2023	28-Dec-2023	✓	03-Jan-2024	05-Feb-2024	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	17	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	16	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	1	100.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	0	1	0.00	5.00	✗	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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+61 3 8564 5000 EnviroSampleVic@eurofins.com

[illegible]



CERTIFICATE OF ANALYSIS

Work Order : **EB2411175**
Client : **TETRA TECH COFFEY PTY LTD**
Contact : JEREMY WICKS
Address : LEVEL 5 12 CREEK STREET
BRISBANE QLD, AUSTRALIA 4000
Telephone : ----
Project :
Order number : ----
C-O-C number : ----
Sampler : AM
Site :
Quote number : EN/000
No. of samples received : 12
No. of samples analysed : 12

Page : 1 of 5
Laboratory : Environmental Division Brisbane
Contact : Jason Dighton
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 04-Apr-2024 14:30
Date Analysis Commenced : 05-Apr-2024
Issue Date : 10-Apr-2024 16:37



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Satishkumar Trivedi	Senior Acid Sulfate Soil Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Satishkumar Trivedi	Senior Acid Sulfate Soil Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

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

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

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

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

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

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

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



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	LF 01 - 240404 0.150	LF 02 - 240404 0.150	LF 03 - 240404 0.150	LF 04 - 240404 0.150	LF 05 - 240404 0.150
Sampling date / time					04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00
Compound	CAS Number	LOR	Unit	EB2411175-001	EB2411175-002	EB2411175-003	EB2411175-004	EB2411175-005	
				Result	Result	Result	Result	Result	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	4.0	3.3	4.3	5.0	5.1	
EG005(ED093)T: Total Metals by ICP-AES									
Chromium	7440-47-3	2	mg/kg	53	54	59	55	62	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				LF 06 - 240404 0.150	PSD 001 - 240404 0.200	PSD 002 - 240404 0.200	PSD 003 - 240404 0.200	QC100 0.150
Sampling date / time				04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00	04-Apr-2024 00:00
Compound	CAS Number	LOR	Unit	EB2411175-006	EB2411175-007	EB2411175-008	EB2411175-009	EB2411175-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	4.6	----	----	----	21.7
EA150: Particle Sizing								
+75µm	----	1	%	----	36	29	24	----
+150µm	----	1	%	----	32	28	22	----
+300µm	----	1	%	----	27	26	19	----
+425µm	----	1	%	----	24	25	18	----
+600µm	----	1	%	----	22	24	17	----
+1180µm	----	1	%	----	16	20	12	----
+2.36mm	----	1	%	----	10	16	8	----
+4.75mm	----	1	%	----	4	9	3	----
+9.5mm	----	1	%	----	<1	6	<1	----
+19.0mm	----	1	%	----	<1	<1	<1	----
+37.5mm	----	1	%	----	<1	<1	<1	----
+75.0mm	----	1	%	----	<1	<1	<1	----
EA150: Soil Classification based on Particle Size								
Clay (<2 µm)	----	1	%	----	6	59	47	----
Silt (2-60 µm)	----	1	%	----	57	11	29	----
Sand (0.06-2.00 mm)	----	1	%	----	25	13	15	----
Gravel (>2mm)	----	1	%	----	12	17	9	----
Cobbles (>6cm)	----	1	%	----	<1	<1	<1	----
EA152: Soil Particle Density								
Soil Particle Density (Clay/Silt/Sand)	----	0.01	g/cm3	----	2.65	2.63	2.79	----
EG005(ED093)T: Total Metals by ICP-AES								
Chromium	7440-47-3	2	mg/kg	45	----	----	----	47
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	----	----	----	<0.5



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	QC300 Fb	QC400 Rb	----	----	----
Sampling date / time					04-Apr-2024 00:00	04-Apr-2024 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EB2411175-011	EB2411175-012	-----	-----	-----
					Result	Result	----	----	----
EG020T: Total Metals by ICP-MS									
Chromium	7440-47-3	0.001	mg/L		<0.001	0.004	----	----	----



QUALITY CONTROL REPORT

Work Order	: EB2411175	Page	: 1 of 3
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Contact	: Jason Dighton
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	:	Date Samples Received	: 04-Apr-2024
Order number	: ----	Date Analysis Commenced	: 05-Apr-2024
C-O-C number	: ----	Issue Date	: 10-Apr-2024
Sampler	: AM		
Site	:		
Quote number	: EN/000		
No. of samples received	: 12		
No. of samples analysed	: 12		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Satishkumar Trivedi	Senior Acid Sulfate Soil Chemist	Brisbane Acid Sulphate Soils, Stafford, QLD
Satishkumar Trivedi	Senior Acid Sulfate Soil Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

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

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

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

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

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5708995)									
EB2411175-001	LF 01 - 240404 0.150	EG005T: Chromium	7440-47-3	2	mg/kg	53	57	6.8	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5708996)									
EB2411175-001	LF 01 - 240404 0.150	EA055: Moisture Content	----	0.1	%	4.0	3.9	4.2	0% - 20%
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 5708994)									
EB2411175-001	LF 01 - 240404 0.150	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG020T: Total Metals by ICP-MS (QC Lot: 5711233)									
EB2410889-001	Anonymous	EG020A-T: Chromium	7440-47-3	0.001 (0.005) *	mg/L	0.013	0.012	0.0	No Limit
EB2411066-002	Anonymous	EG020A-T: Chromium	7440-47-3	0.001	mg/L	0.002	0.001	0.0	No Limit



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

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

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5708995)								
EG005T: Chromium	7440-47-3	2	mg/kg	<2	14.5 mg/kg	114	83.0	125
EA152: Soil Particle Density (QCLot: 5709243)								
EA152: Soil Particle Density (Clay/Silt/Sand)	----	----	g/cm3	----	2.68 g/cm3	100	80.0	120
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5708994)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	109	80.0	120
				<0.5	13.93 mg/kg	129	70.0	130

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG020T: Total Metals by ICP-MS (QCLot: 5711233)								
EG020A-T: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	103	89.0	115

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5708995)							
EB2411175-002	LF 02 - 240404 0.150	EG005T: Chromium	7440-47-3	50 mg/kg	126	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 5708994)							
EB2411175-001	LF 01 - 240404 0.150	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	96.6	70.0	130
EB2411175-001	LF 01 - 240404 0.150	EG048G: Hexavalent Chromium	18540-29-9	13.93 mg/kg	92.5	70.0	130
Sub-Matrix: WATER				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number			Low	High
EG020T: Total Metals by ICP-MS (QCLot: 5711233)							
EB2410889-002	Anonymous	EG020A-T: Chromium	7440-47-3	1 mg/L	101	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2411175	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JEREMY WICKS	Telephone	: +61-7-3243 7222
Project	:	Date Samples Received	: 04-Apr-2024
Site	:	Issue Date	: 10-Apr-2024
Sampler	: AM	No. of samples received	: 12
Order number	: ----	No. of samples analysed	: 12

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

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

Matrix: SOIL

Analysis Holding Time Compliance

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

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) LF 01 - 240404 - 0.150, LF 03 - 240404 - 0.150, LF 05 - 240404 - 0.150, QC100 - 0.150	LF 02 - 240404 - 0.150, LF 04 - 240404 - 0.150, LF 06 - 240404 - 0.150,	04-Apr-2024	----	----	----	05-Apr-2024	18-Apr-2024	✓
EA150: Particle Sizing								
Snap Lock Bag (EA150H) PSD 001 - 240404 - 0.200, PSD 003 - 240404 - 0.200	PSD 002 - 240404 - 0.200,	04-Apr-2024	----	----	----	10-Apr-2024	01-Oct-2024	✓
EA150: Soil Classification based on Particle Size								
Snap Lock Bag (EA150H) PSD 001 - 240404 - 0.200, PSD 003 - 240404 - 0.200	PSD 002 - 240404 - 0.200,	04-Apr-2024	----	----	----	10-Apr-2024	01-Oct-2024	✓
EA152: Soil Particle Density								
Snap Lock Bag (EA152) PSD 001 - 240404 - 0.200, PSD 003 - 240404 - 0.200	PSD 002 - 240404 - 0.200,	04-Apr-2024	----	----	----	10-Apr-2024	01-Oct-2024	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) LF 01 - 240404 - 0.150, LF 03 - 240404 - 0.150, LF 05 - 240404 - 0.150, QC100 - 0.150	LF 02 - 240404 - 0.150, LF 04 - 240404 - 0.150, LF 06 - 240404 - 0.150,	04-Apr-2024	08-Apr-2024	01-Oct-2024	✓	08-Apr-2024	01-Oct-2024	✓



Matrix: SOIL

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G)	04-Apr-2024	08-Apr-2024	02-May-2024	✔	09-Apr-2024	15-Apr-2024	✔	
LF 01 - 240404 - 0.150,								LF 02 - 240404 - 0.150,
LF 03 - 240404 - 0.150,								LF 04 - 240404 - 0.150,
LF 05 - 240404 - 0.150,								LF 06 - 240404 - 0.150,
QC100 - 0.150								

Matrix: WATER

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020T: Total Metals by ICP-MS							
Amber Glass Bottle - Unpreserved (EG020A-T)							
QC300 Fb, QC400 Rb	04-Apr-2024	08-Apr-2024	01-Oct-2024	✔	08-Apr-2024	01-Oct-2024	✔



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification .

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Soil Particle Density	EA152	0	3	0.00	10.00	✗	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	7	28.57	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Soil Particle Density	EA152	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	7	28.57	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification .

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Total Metals by ICP-MS - Suite A	EG020A-T	2	16	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Total Metals by ICP-MS - Suite A	EG020A-T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Total Metals by ICP-MS - Suite A	EG020A-T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Total Metals by ICP-MS - Suite A	EG020A-T	1	16	6.25	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Particle Size Analysis by Hydrometer	EA150H	SOIL	Particle Size Analysis by Hydrometer according to AS1289.3.6.3
Soil Particle Density	EA152	SOIL	Soil Particle Density by AS 1289.3.5.1: Methods of testing soils for engineering purposes - Soil classification tests - Determination of the soil particle density of a soil - Standard method
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Preparation Methods	Method	Matrix	Method Descriptions
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM Schedule B(3)



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2411175**

Client : **TETRA TECH COFFEY PTY LTD**
Contact : **JEREMY WICKS**
Address : **LEVEL 5 12 CREEK STREET**
BRISBANE QLD, AUSTRALIA 4000

E-mail : **Jeremy.Wicks@tetrattech.com**
Telephone : **----**
Facsimile : **----**

Project :
Order number : **----**
C-O-C number : **----**
Site :
Sampler : **AM**

Laboratory : **Environmental Division Brisbane**
Contact : **Jason Dighton**
Address : **2 Byth Street Stafford QLD Australia**
4053

E-mail : **jason.dighton@alsglobal.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Page : **1 of 3**
Quote number : **ES2023COFENV0016 (EN/000)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : **04-Apr-2024 14:30**
Client Requested Due : **10-Apr-2024**
Date

Issue Date : **05-Apr-2024**
Scheduled Reporting Date : **10-Apr-2024**

Delivery Details

Mode of Delivery : **Client Drop Off**
No. of coolers/boxes : **2**

Security Seal : **Not Available**
Temperature : **30.8, 29.8, 26.8°C - Ice**
Bricks present

Receipt Detail : **HARD ESKY**

No. of samples received / analysed : **12 / 12**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Please be advised that sample "QC200" has been forwarded to Eurofins for analysis as per the Chain of Custody request. Please note that this will incur a freight forwarding fee.**
- **Please be advised that as per the amended Chain of Custody received from Alistair McLay (5/4/2024 9:12), the container labelled as "QC300 RB" will be reported as "QC300 FB"(ALS ID#11) and the container labelled as "QC400 RB" will be reported as "QC400 RB"(ALS ID#12).**
- **Please be advised that Particle Sizing with Hydrometer and Soil Density only has been assigned where Particle Sizing has been requested. If you wish to discuss this further, please contact Client Services at ALSEnviro.Brisbane@alsglobal.com.**
- **A 15% surcharge applies for results returned within 3 days.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

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

Method Sample ID	Sample Container Received	Preferred Sample Container for Analysis
Total Metals by ICP-MS - Suite A : EG020A-T		
QC300 Fb	- Amber Glass Bottle - Unpreserved	- Clear Plastic Bottle - Nitric Acid; Unfiltered
QC400 Rb	- Amber Glass Bottle - Unpreserved	- Clear Plastic Bottle - Nitric Acid; Unfiltered

Any sample identifications that cannot be displayed entirely in the analysis summary table will be listed below.

EB2411175-001 : [04-Apr-2024] : LF 01 - 240404 - 0.150
EB2411175-002 : [04-Apr-2024] : LF 02 - 240404 - 0.150
EB2411175-003 : [04-Apr-2024] : LF 03 - 240404 - 0.150
EB2411175-004 : [04-Apr-2024] : LF 04 - 240404 - 0.150
EB2411175-005 : [04-Apr-2024] : LF 05 - 240404 - 0.150
EB2411175-006 : [04-Apr-2024] : LF 06 - 240404 - 0.150
EB2411175-007 : [04-Apr-2024] : PSD 001 - 240404 - 0.200
EB2411175-008 : [04-Apr-2024] : PSD 002 - 240404 - 0.200
EB2411175-009 : [04-Apr-2024] : PSD 003 - 240404 - 0.200

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EA150H/EA152 Particle Sizing with Hydrometer + Soil Particle	SOIL - EG05T (solids) Total Metals by ICP-AES	SOIL - EG048G Total Hexavalent Chromium (Alkaline digestion)
EB2411175-001	04-Apr-2024 00:00	LF 01 - 240404 0.150	✓		✓	✓
EB2411175-002	04-Apr-2024 00:00	LF 02 - 240404 0.150	✓		✓	✓
EB2411175-003	04-Apr-2024 00:00	LF 03 - 240404 0.150	✓		✓	✓
EB2411175-004	04-Apr-2024 00:00	LF 04 - 240404 0.150	✓		✓	✓
EB2411175-005	04-Apr-2024 00:00	LF 05 - 240404 0.150	✓		✓	✓
EB2411175-006	04-Apr-2024 00:00	LF 06 - 240404 0.150	✓		✓	✓
EB2411175-007	04-Apr-2024 00:00	PSD 001 - 240404 0....		✓		
EB2411175-008	04-Apr-2024 00:00	PSD 002 - 240404 0....		✓		
EB2411175-009	04-Apr-2024 00:00	PSD 003 - 240404 0....		✓		
EB2411175-010	04-Apr-2024 00:00	QC100 0.150	✓		✓	✓



Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EG020T Total Metals by ICP/MS (including digestion)
EB2411175-011	04-Apr-2024 00:00	QC300 Fb	✓
EB2411175-012	04-Apr-2024 00:00	QC400 Rb	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICE

- A4 - AU Tax Invoice (INV)

Email ap@coffey.com

JEREMY WICKS

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Attachment - Report (SUBCO)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com
Email Jeremy.Wicks@tetrattech.com

MICHELLE MORRISON

- A4 - AU Tax Invoice (INV)

Email michelle.morrison@coffey.com

Mandatory Fields				CHAIN OF CUSTODY												Page 1 of 2							
CLIENT CODE:				*PROJECT MANAGER: Jeremy.wicks@tehratech.com				SAMPLER: 4M				CoC #: (if applicable)											
*CLIENT: DVA/-				*PM MOBILE: 04 39 95 6723				SAMPLER MOBILE: 0 410 996 020															
OFFICE: (Invoiced Office)				ALS QUOTE # (Client PL if blank)				PURCHASE ORDER NO.				CC Invoice to PM <input type="checkbox"/>		BIOSECURITY									
PROJECT NO./PROJECT:				SITE:																			
*INVOICE TO: (client default if nil) Jeremy.wicks@tehratech.com				*ANALYSIS REQUIRED (NB: ALS quote No. and/or Analysis Suite Codes must be listed to attract suite/quoted price) Where details are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). Mark (X) in the box below analysis to indicate the parameter listed above to be tested on that sample.												Country of Origin: (if not Australia)							
*EMAIL REPORTS TO: Jeremy.wicks@tehratech.com				*STORAGE REQUIREMENTS Please check box. → Standard Storage time from receipt of samples: Waters - 3 weeks Soils - 2 months <input type="checkbox"/> Standard Storage <input type="checkbox"/> Extended Storage Specify Disposal Date: Note: Extended storage incurs a fee and requires a signed agreement.				*TURNAROUND Please check box. → (Not all tests can be expedited, contact Client Services for more information) <input checked="" type="checkbox"/> 5+ days (no surcharge) <input checked="" type="checkbox"/> 3 day (+15%) <input type="checkbox"/> 2 day (+30%) <input type="checkbox"/> 1 day (+50%)				Matrix: Soil/Solids(S); Water(W) Sediments (SD), Dust (D), Product (P), Bore (B), Biosolid (BS) CHROMIUM TOT CHROMIUM VI (EAT504)(SIZING-PARTICLE SIZING) (Sieve + HYDRANGE)											
Comments:																				Environmental Division Brisbane Work Order Reference EB2411175 Telephone : + 61-7-3243 7222			
ALS Use Only		Sample ID		Depth		Date/Time		No. Bottles		MATRIX: Soil/Solids(S); Water(W) Sediments (SD), Dust (D), Product (P), Bore (B), Biosolid (BS)		CHROMIUM TOT		CHROMIUM VI		(EAT504)(SIZING-PARTICLE SIZING)		(Sieve + HYDRANGE)		Lab QC (additional bottles req.)		Additional Information (Comment on hazards - e.g., asbestos, known high contamination)	
Lab ID																				Dup		MS	
1		LF 01 - 240404		0.150		04.04.24		1		S		X		X						<input type="checkbox"/>		<input type="checkbox"/>	
2		02 -																		<input type="checkbox"/>		<input type="checkbox"/>	
3		03 -																		<input type="checkbox"/>		<input type="checkbox"/>	
4		04 -																		<input type="checkbox"/>		<input type="checkbox"/>	
5		05 -																		<input type="checkbox"/>		<input type="checkbox"/>	
6		06 -																		<input type="checkbox"/>		<input type="checkbox"/>	
7		PSD 001 -		0.200				1 bag												<input type="checkbox"/>		<input type="checkbox"/>	
8		002 -																		<input type="checkbox"/>		<input type="checkbox"/>	
9		003 -																		<input type="checkbox"/>		<input type="checkbox"/>	
																				<input type="checkbox"/>		<input type="checkbox"/>	
Receipt Detail (Lab Use ONLY)		Chilling Method: Ice: Frozen / Melted		Ice Bricks: Frozen / Thawed		None		Sample Temp at Receipt: 20.6 °C		Security Seal Intact (circle)		Yes / No / NA(None)		Carrier Details: <input type="checkbox"/> Courier/Post <input type="checkbox"/> Client		Packaging: (Circle) Hard Esky Foam Esky Box/Bag/Other		Count # # #		URGENT			
Relinquished by: ALISTAIR MCCLAY		Signature: [Signature]		Date/Time: 04.04.24		Received by: CP		Signature: [Signature]		Date/Time: 4/4/24 1430													
Relinquished by:		Signature:		Date/Time:		Received by:		Signature:		Date/Time:													

Certificate of Analysis

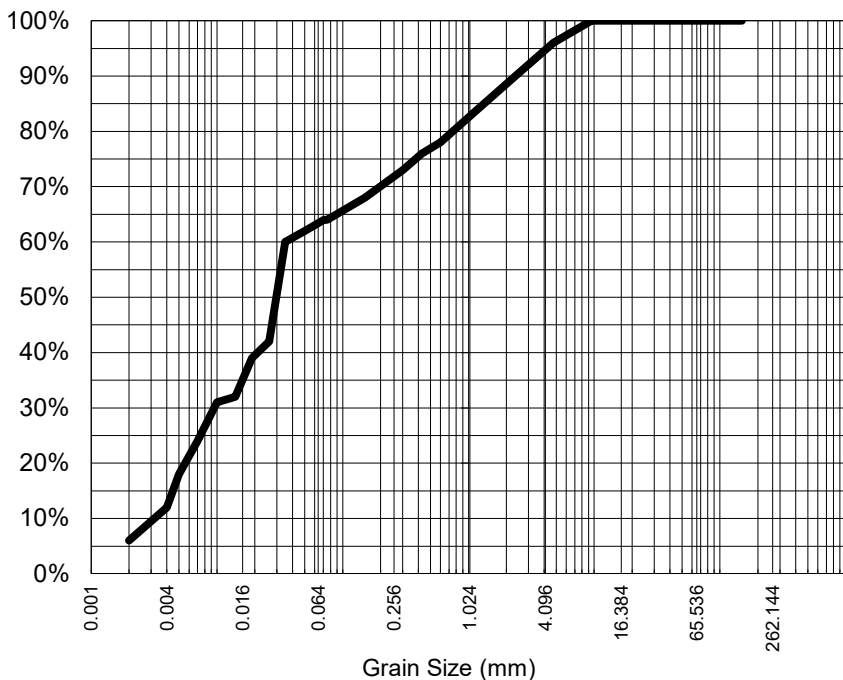
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

ALS Environmental
Brisbane QLD



CLIENT: JEREMY WICKS
DATE REPORTED: 10-Apr-2024
COMPANY: TETRA TECH COFFEY PTY LTD
DATE RECEIVED: 4-Apr-2024
ADDRESS: Level 5
12 Creek Street
Brisbane Qld, Australia
REPORT NO: EB2411175-007 / PSD
PROJECT:
SAMPLE ID: PSD 001 - 240404

Particle Size Distribution



Analysis Notes

Samples analysed as received.

Particle Size (mm)	% Passing
9.50	100%
4.75	96%
2.36	90%
1.18	84%
0.600	78%
0.425	76%
0.300	73%
0.150	68%
0.075	64%
Particle Size (microns)	
50	62%
35	60%
26	42%
19	39%
14	32%
10	31%
7	24%
5	18%
2	6%

Median Particle Size (mm)*	0.030
----------------------------	-------

Median Particle Size is not covered under the current scope of ALS's NATA accreditation.

Sample Comments:

Analysed: 8-Apr-24

Loss on Pretreatment NA

Limit of Reporting: 1%

Sample Description:

Dispersion Method Shaker

Test Method: AS1289.3.6.2/AS1289.3.6.3

Soil Particle Density (<2.36mm) 2.65

NATA Accreditation: 825 Site: Brisbane
This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced, except in full.



Satish Trivedi
Soil Senior Chemist
Authorised Signatory

Certificate of Analysis

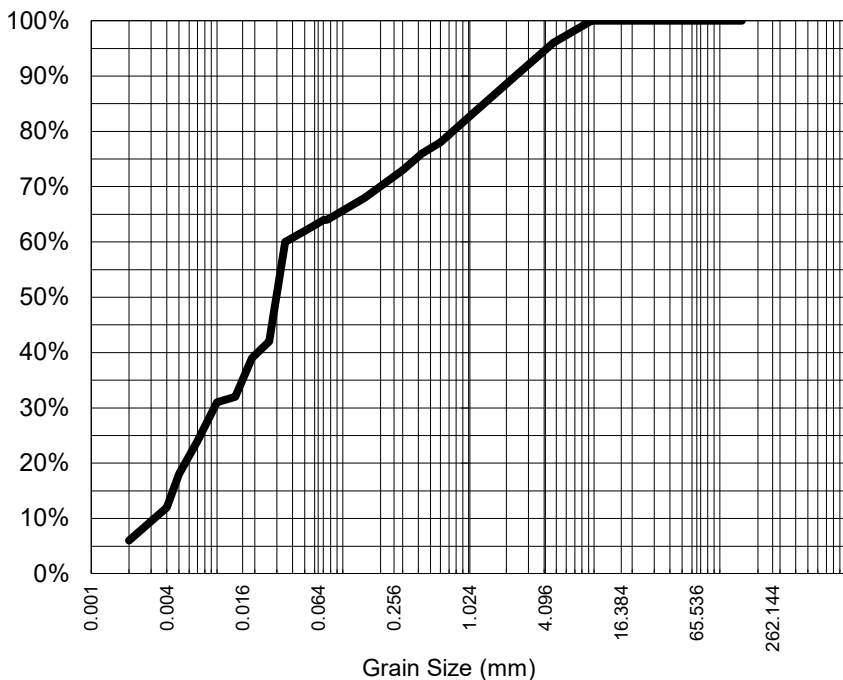
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

ALS Environmental
Brisbane QLD



CLIENT: JEREMY WICKS
DATE REPORTED: 10-Apr-2024
COMPANY: TETRA TECH COFFEY PTY LTD
DATE RECEIVED: 4-Apr-2024
ADDRESS: Level 5
12 Creek Street
Brisbane Qld, Australia
REPORT NO: EB2411175-007DUP / PSD
PROJECT:
SAMPLE ID: PSD 001 - 240404

Particle Size Distribution



Analysis Notes

Samples analysed as received.

Particle Size (mm)	% Passing
9.50	100%
4.75	96%
2.36	90%
1.18	84%
0.600	78%
0.425	76%
0.300	73%
0.150	68%
0.075	64%
Particle Size (microns)	
50	62%
35	60%
26	42%
19	39%
14	32%
10	31%
7	24%
5	18%
2	6%

Median Particle Size (mm)*	0.030
----------------------------	-------

Median Particle Size is not covered under the current scope of ALS's NATA accreditation.

Sample Comments:

Loss on Pretreatment NA

Sample Description:

Test Method: AS1289.3.6.2/AS1289.3.6.3

Soil Particle Density (<2.36mm) 2.65

Analysed: 8-Apr-24

Limit of Reporting: 1%

Dispersion Method Shaker

Satish Trivedi
Soil Senior Chemist
Authorised Signatory

NATA Accreditation: 825 Site: Brisbane
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Certificate of Analysis

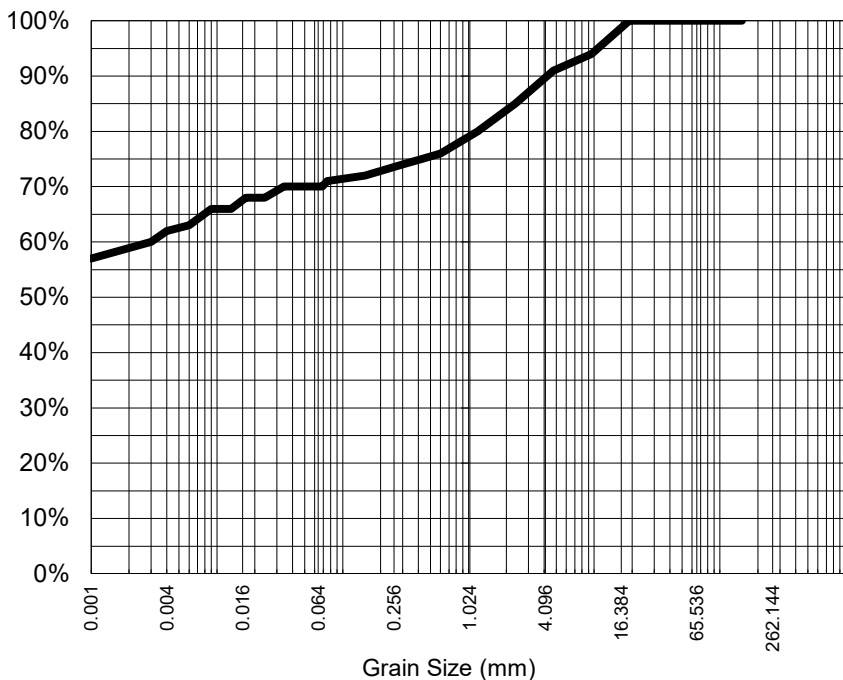
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

ALS Environmental
Brisbane QLD



CLIENT: JEREMY WICKS
DATE REPORTED: 10-Apr-2024
COMPANY: TETRA TECH COFFEY PTY LTD
DATE RECEIVED: 4-Apr-2024
ADDRESS: Level 5
12 Creek Street
Brisbane Qld, Australia
REPORT NO: EB2411175-008 / PSD
PROJECT:
SAMPLE ID: PSD 002 - 240404

Particle Size Distribution



Analysis Notes

Samples analysed as received.

Particle Size (mm)	% Passing
19.0	100%
9.50	94%
4.75	91%
2.36	85%
1.18	80%
0.600	76%
0.425	75%
0.300	74%
0.150	72%
0.075	71%
Particle Size (microns)	
48	70%
34	70%
24	68%
17	68%
13	66%
9	66%
6	63%
4	62%
1	57%

Median Particle Size (mm)*	<0.006
----------------------------	--------

Median Particle Size is not covered under the current scope of ALS's NATA accreditation.

Sample Comments:

Analysed: 8-Apr-24

Loss on Pretreatment NA

Limit of Reporting: 1%

Sample Description:

Dispersion Method Shaker

Test Method: AS1289.3.6.2/AS1289.3.6.3

Soil Particle Density (<2.36mm) 2.63

NATA Accreditation: 825 Site: Brisbane
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Satish Trivedi
Soil Senior Chemist
Authorised Signatory

Certificate of Analysis

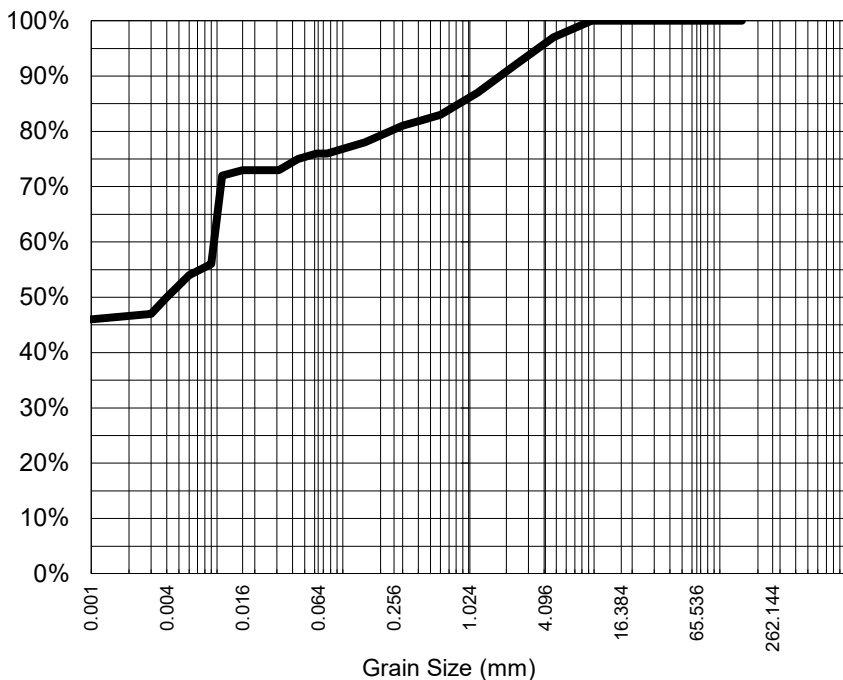
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

ALS Environmental
Brisbane QLD



CLIENT: JEREMY WICKS
DATE REPORTED: 10-Apr-2024
COMPANY: TETRA TECH COFFEY PTY LTD
DATE RECEIVED: 4-Apr-2024
ADDRESS: Level 5
12 Creek Street
Brisbane Qld, Australia
REPORT NO: EB2411175-009 / PSD
PROJECT:
SAMPLE ID: PSD 003 - 240404

Particle Size Distribution



Analysis Notes

Samples analysed as received.

Particle Size (mm)	% Passing
9.50	100%
4.75	97%
2.36	92%
1.18	87%
0.600	83%
0.425	82%
0.300	81%
0.150	78%
0.075	76%
Particle Size (microns)	
44	75%
31	73%
22	73%
16	73%
11	72%
9	56%
6	54%
4	50%
1	46%

Median Particle Size (mm)*	<0.006
----------------------------	--------

Median Particle Size is not covered under the current scope of ALS's NATA accreditation.

Sample Comments:

Analysed: 8-Apr-24

Loss on Pretreatment NA

Limit of Reporting: 1%

Sample Description:

Dispersion Method Shaker

Test Method: AS1289.3.6.2/AS1289.3.6.3

Soil Particle Density (<2.36mm) 2.79

NATA Accreditation: 825 Site: Brisbane
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Satish Trivedi
Soil Senior Chemist
Authorised Signatory



CERTIFICATE OF ANALYSIS

Work Order : **ES2336387**
Client : **TETRA TECH COFFEY PTY LTD**
Contact : JEREMY WICKS
Address : LEVEL 5 12 CREEK STREET
BRISBANE QLD, AUSTRALIA 4000
Telephone : ----
Project : 278300 DVA GREENSLOPES
Order number : ----
C-O-C number : ----
Sampler : MICHAEL PAGE
Site :
Quote number : EN/000
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 5
Laboratory : Environmental Division Sydney
Contact : Jason Dighton
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone : +61-2-8784 8555
Date Samples Received : 23-Oct-2023 10:30
Date Analysis Commenced : 24-Oct-2023
Issue Date : 27-Oct-2023 16:29



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Accreditation Category
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW



General Comments

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

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

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

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

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

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

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

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC102	QC104	----	----	----
Sampling date / time					18-Oct-2023 00:00	18-Oct-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2336387-001	ES2336387-002	-----	-----	-----
					Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	-----	1.0	%		10.3	5.1	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		6	8	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		96	71	----	----	----
Copper	7440-50-8	5	mg/kg		16	11	----	----	----
Lead	7439-92-1	5	mg/kg		<5	17	----	----	----
Nickel	7440-02-0	2	mg/kg		25	22	----	----	----
Zinc	7440-66-6	5	mg/kg		27	45	----	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	----	----	----
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Total Chlordane (sum)	-----	0.05	mg/kg		<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	----	----	----
4,4'-DDT	50-29-3	0.2	mg/kg		<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC102	QC104	----	----	----
Sampling date / time					18-Oct-2023 00:00	18-Oct-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2336387-001	ES2336387-002	-----	-----	-----
				Result	Result		----	----	----
EP068A: Organochlorine Pesticides (OC) - Continued									
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg		<0.05	<0.05	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		72.2	81.0	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		78.4	82.5	----	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143



QUALITY CONTROL REPORT

Work Order	: ES2336387	Page	: 1 of 5
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: JEREMY WICKS	Contact	: Jason Dighton
Address	: LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 278300 DVA GREENSLOPES	Date Samples Received	: 23-Oct-2023
Order number	: ----	Date Analysis Commenced	: 24-Oct-2023
C-O-C number	: ----	Issue Date	: 27-Oct-2023
Sampler	: MICHAEL PAGE		
Site	:		
Quote number	: EN/000		
No. of samples received	: 2		
No. of samples analysed	: 2		



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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	Position	Accreditation Category
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW



General Comments

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

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

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

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

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

Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5379974)									
ES2336304-012	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	13	16	19.5	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	5	5	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	5	6	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	13	15	10.3	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	20	21	8.4	No Limit
ES2336312-009	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	8	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	9	8	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	13	12	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5379982)									
ES2336312-001	Anonymous	EA055: Moisture Content	----	0.1	%	12.6	17.0	30.2	0% - 50%
ES2336387-001	QC102	EA055: Moisture Content	----	0.1	%	10.3	11.7	12.7	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5379973)									
ES2336304-012	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2336312-009	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5379232)									
ES2336125-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

Page : 3 of 5
 Work Order : ES2336387
 Client : TETRA TECH COFFEY PTY LTD
 Project : 278300 DVA GREENSLOPES



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 5379232) - continued									
ES2336125-001	Anonymous	EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5379974)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	112	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	127	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	129	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	111	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	110	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	102	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	101	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5379973)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	109	70.0	125
EP068A: Organochlorine Pesticides (OC) (QCLot: 5379232)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	85.4	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	89.6	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.6	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.3	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	86.8	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	93.6	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	87.2	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	99.8	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.3	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	66.0	116
EP068: 4,4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	102	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.2	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	93.7	69.0	115
EP068: 4,4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	97.7	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	88.4	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	83.3	62.0	124
EP068: 4,4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	87.9	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	64.0	122



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit			LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 5379232) - continued								
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	89.2	54.0	130

Matrix Spike (MS) Report

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

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5379974)							
ES2336304-012	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	115	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	106	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	113	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	101	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	109	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	110	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	107	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5379973)							
ES2336304-012	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	99.7	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 5379232)							
ES2336125-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	85.6	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	83.2	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	101	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	107	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	87.6	70.0	130
		EP068: 4,4`-DDT	50-29-3	2 mg/kg	77.0	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: ES2336387	Page	: 1 of 4
Client	: TETRA TECH COFFEY PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: JEREMY WICKS	Telephone	: +61-2-8784 8555
Project	: 278300 DVA GREENSLOPES	Date Samples Received	: 23-Oct-2023
Site	:	Issue Date	: 27-Oct-2023
Sampler	: MICHAEL PAGE	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results. This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein. Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters. Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: SOIL Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) QC102,	QC104	18-Oct-2023	----	----	----	24-Oct-2023	01-Nov-2023	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) QC102,	QC104	18-Oct-2023	25-Oct-2023	15-Apr-2024	✓	25-Oct-2023	15-Apr-2024	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) QC102,	QC104	18-Oct-2023	25-Oct-2023	15-Nov-2023	✓	26-Oct-2023	15-Nov-2023	✓
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068) QC102,	QC104	18-Oct-2023	25-Oct-2023	01-Nov-2023	✓	27-Oct-2023	04-Dec-2023	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Pesticides by GCMS	EP068	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2336387**

Client : **TETRA TECH COFFEY PTY LTD**
Contact : **JEREMY WICKS**
Address : **LEVEL 5 12 CREEK STREET**
BRISBANE QLD, AUSTRALIA 4000

E-mail : **Jeremy.Wicks@tetrattech.com**
Telephone : **----**
Facsimile : **----**

Project : **278300 DVA GREENSLOPES**
Order number : **----**
C-O-C number : **----**
Site : **----**
Sampler : **MICHAEL PAGE**

Laboratory : **Environmental Division Sydney**
Contact : **Jason Dighton**
Address : **277-289 Woodpark Road Smithfield**
NSW Australia 2164

E-mail : **jason.dighton@alsglobal.com**
Telephone : **+61-2-8784 8555**
Facsimile : **+61-2-8784 8500**

Page : **1 of 2**
Quote number : **ES2023COFENV0016 (EN/000)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : **23-Oct-2023 10:30**
Client Requested Due : **27-Oct-2023**
Date : **----**

Issue Date : **23-Oct-2023**
Scheduled Reporting Date : **27-Oct-2023**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **1**

Security Seal : **Intact.**
Temperature : **10.3, 11.7, 10.8°C - Ice**
Bricks present

Receipt Detail : **----**
No. of samples received / analysed : **2 / 2**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.



CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 665 521

☐ Sydney Laboratory
Unit F3 Bldg 16 Mars Road Lane Cove NSW 2060
02 9900 6400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory
Unit 1 21 Smallwood Place Murrumbidgee QLD 4172
07 3902 4000 EnviroSampleQLD@eurofins.com

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

☐ Melbourne Laboratory
5 Macneil Road Dandenong South VIC 3175
03 9564 5000 EnviroSampleVIC@eurofins.com

Company: **THORNTON COLLEGE**
Address: **5/12 CROWN ST
BUSBYNS, QLD
4000**
Contact Name: **MURRAY PAGE**
Phone No: **0406384431**
Special Directions: ***AS PURCHASE
(See Para 8)**


Project No: **278300**
Project Name: **DVA CUMENISOLIS**
Project Manager: **ENVIRON WICKS**
EDD Format: **ES2336387**

Handled over by: **"**
Email for Invoice: **"**
Email for Results: **"**
Containers: **"**

Required Turnaround Time (TAT): **"**
Detailed Turnaround Time (TAT): **"**

Analyses: **Where metals are requested, please specify "Total" or "Filtered".
SUITE code must be used to abstract SUITE pricing.**
ASBESTOS PRESENCE
OCP
8 METALS

Environmental Division
Sydney
Work Order Reference
ES2336387



Telephone: + 61-2-8784 8665

500mL Plastic
250mL Plastic
125mL Plastic
200mL Amber Glass
40mL VOA vial
500mL PFAS Bottle
Jar (Glass or HDPE)
Other (Asbestos AS4964, WA Guidelines)
☐ Overnight (reporting by 3am)
☐ Same day
☐ 2 days
☐ 5 days (Standard)
☐ Other
Sample Comments: **Dangerous Goods Hazard Warning**

No: **21** Client Sample ID: **MSB08** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **22** Client Sample ID: **MSB09** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **23** Client Sample ID: **MSB10** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **24** Client Sample ID: **MSB11** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **25** Client Sample ID: **MSB12** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **26** Client Sample ID: **MSB13** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **27** Client Sample ID: **MSB14** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **28** Client Sample ID: **MSB15** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **29** Client Sample ID: **MSB16** Sampled Date/Time: **18/10/23** Matrix: **S**

No: **30** Client Sample ID: **MSB17** Sampled Date/Time: **18/10/23** Matrix: **S**

Method of Shipment: ☐ Courier # ☒ Hand Delivered
Laboratory Use Only: Received By: **M. Page** Signature: **M. Page** Date: **18/10/23** Time: **10:36:38**

re: Para 8 23/10/23 WJZ



CHAIN OF CUSTODY RECORD

Eurofins Environment Testing ABN 50 066 085 521

☐ Sydney Laboratory

Unit 17 Bldg 16 Mann Road Lane Cove NSW 2066
02 9900 8400 EurofinsSampleSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smithwood Place Mirania QLD 4172
07 3927 4500 EurofinsSampleQLD@eurofins.com

☐ Perth Laboratory

Unit 2 81 Leach Highway Kewdale WA 6105
08 9251 9900 EurofinsSampleW@eurofins.com

☐ Melbourne Laboratory

5 Monerney Road Dandenong South VIC 3175
03 5554 5000 EurofinsSampleV@eurofins.com

3/8

Company

THANAMUN OFFSH

Address

Contact Name

Phone No

Special Directions

Purchase Order

Quote ID No

No

Client Sample ID

Sampled Date/Time

Matrix

TCM
OCP
8 MARKS

Analyses

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

Project No

278300

Project Manager

EDD Format

ESR: ECLIS etc

Signature

Date

Time

Report No

1036638

Temperature

1540

Method of Shipment

☐ Courier

☒ Hand Delivered

Postel

Name

Signature

Date

Time

Report No

Temperature

1540

Laboratory Use Only

Received By

Received By

Signature

Date

Time

Report No

Temperature

1540

1036638

1036638

1036638

1036638

1036638

1036638

1036638

1036638

1036638



CHAIN OF CUSTODY RECORD

☐ Sydney Laboratory
Unit F3 B4F 16 Main Road Lane Cove West NSW 2086
02 9930 6400 EurofinsSydney@eurofins.com

☒ Brisbane Laboratory
Unit 1 21 Sandwood Place Maroon QLD 4172
07 3902 4800 EurofinsBrisbane@eurofins.com

☐ Perth Laboratory
Unit 2 91 Leach Highway/Kendall WA 6105
08 9251 9600 EurofinsPerthWA@eurofins.com

☐ Melbourne Laboratory
5 Montway Road Dandenong South VIC 3175
03 8524 5500 EurofinsMelbourne@eurofins.com

Company **MAMAMU COTTAGE**

Address

Contact Name

Phone No

Special Directions

Purchase Order

Quote ID No

Project No **278300**
Project Name **BVA CONSULTING**

Project Manager
EOD Format
Estim. Table etc

Sampler(s)

Handed over by

Email for Invoice

Email for Results

Containers

Changes continue from & state if necessary.

Required Turnaround Time (TAT)

Check with the 5 days if not stated.

- 500mL Plastic
- 250mL Plastic
- 125mL Plastic
- 200mL Amber Glass
- 40mL VOA vial
- 500mL PFAS Bottle
- Jar (Glass or HDPE)
- Other (Asbestos AS4874, WA Guidelines)

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

Sample Comments

/ Dangerous Goods Hazard Warning

Client Sample ID

Sampled Date/Time

Matrix

State (N)

Water (N)

TS07-W2

TS08-B

W1

W2

TS09-B

W1

W2

TS10-B

W1

W2

Method of Shipment

☐ Courier (#)

☒ Hand Delivered

☐ Postal

Name

M-P Allen

Signature

Date

18/10/23

Time

1540

Laboratory Use Only

Received By

Signed By

Date

Time

Temperature

Report No

1036638

Eurofins Environmental Testing Australia Pty Ltd



CHAIN OF CUSTODY RECORD

- ☐ **Sydney Laboratory**
Unit F3 Bldg 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 Email: SamplesNSW@eurofins.com

- Brisbane Laboratory**
Unit 1 21 Smallwood Place Murrumbidgee QLD 4172
07 3902 4600 EnvyroSampleQLD@envyrofinn.com

- ☐ **Perth Laboratory**
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9500 Email: SampleWA@eurofina.com

- ☐ Melbourne Laboratory
6 Montfery Road Dandenong South VIC 3175
03 8584 5000 EnvyroSampleVerification@flms.com

Company	Mountain View Coffee
Address	
Contact Name	
Phone No	
Special Directions	
Purchase Order	
Quote ID No	

[illegible]

Sample(s)	
Handled over by	
Email for Invoice	
Email for Results	
Containers	<p>Required Turnaround Time (TAT) (Mandatory for 3 days fast-track).</p>
<p>Change container type & size if necessary.</p> <p>500mL Plastic</p> <p>250mL Plastic</p> <p>125mL Plastic</p> <p>50mL Amber Glass</p> <p>50mL VOA vial</p> <p>50mL PFA® Bottle</p> <p>(Glass or HDPE)</p> <p>State AS4134, WA Outback (info)</p>	<p> <input type="checkbox"/> Overnight (reporting by 9am) <i>⚡ Surcharge will apply</i> </p> <p> <input type="checkbox"/> Same day <input checked="" type="checkbox"/> 2 days <input type="checkbox"/> 5 days (Standard) </p> <p> <input type="checkbox"/> 1 day <input type="checkbox"/> 3 days <input type="checkbox"/> Other </p>

[illegible]

Received By _____
Laboratory Use Only

Reviewed by

STUDY NAME: WEL-1-PEB-42001 (W1) - DPM

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Squid

1997

Date _____

For

1

1

510

252

☐ Sydney Laboratory

Unit F3 Bldg 16 Mars Road Cove West NSW 2061
02 9900 8400 EnviroSampleNSW@auroline.com

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

☐ **Perth Laboratory**
Unit 2 91 Leach Highway Kardale WA 6105
08 9251 9600 EnviroSampleWA@aucofn.com

☐ **Mathbourne Laboratory**
6 Montlery Road Dandenong South VIC 3175
03 8584 5000 EnvytoSampleVia@eurofins.com

[illegible]

Ne	Client Sample ID	Sampled Date/Time	Matrix Size (L x W) (in)	Other (Asb)	Sample Comments / Dangerous Goods Hazard Warning
21	TS 14 - W1	8/19/23	5		
22	" W2				
23	TS 15 - B				
24	" W1				
25	" W2				
26	TS 16 - B				
27	" W1				
28	" W2				
29	TS 25 - B				
30	" W1	8/19/23	5		
Total Counts					

RECEIVED BY _____
Laboratory Use Only

Eurofins Environment Testing Australia Pty Ltd

OS-2015-010 Modified by: Dr. R Symons Approved by: G. Jackson Approved on: 8 August 2015

Southern of America is not the designer of Eurofirst Financial Trading Company Terms and Conditions unless agreed otherwise. A copy is available on request.

Date _____
Date _____

Time	Time
------	------

Temperature
Report No.

103668



☐ **Sydney Laboratory**
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@aurifine.com

Brisbane Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4500 EnviroSampleQLD@ouroffice.com

☐ **Perth Laboratory**
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnvtroSampleWA@aurionln.com

☐ **Mailbourne Laboratory**
6 Monterey Road Dandenong South VIC 3176
03 8564 5000 Email: SimpleVet@unifine.com

[illegible]

Method of Shipment		Courier #		Hand Delivered		Postal		Name		Signature		Date		Time	
21	TS 25-W2	18/10/23	5												
22	TS 26-W1														
23	TS 26-W2														
24	TS 26-B														
25	TS 27-B														
26	TS 27-W1														
27	TS 27-W2														
28	DW-B1														
29	DW-B2														
30	DW-B3	18/10/23	5												
Total Counts															

Laboratory Use Only		Date		Time	Temperature
Received By	Received By	Signature	Date	Time	Report No.
Received By	Received By	Signature	Date	Time	Report No.

Substitution of samples to the laboratory will be subject to the conditions of Environ (Australia) Ltd. Terms and Conditions of Service, which can be obtained from the company website. A copy is available at the request.



CHAIN OF CUSTODY RECORD

- Sydney Laboratory**
Unit F3 Bldg F 16 Mares Road Lane Cove West NSW 2086
02 9900 8400 Envirosamplesw@aunfinn.com

- Brisbane Laboratory**
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnvirosamplesQLD@aurionk.com

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

- ☐ **Melbourne Laboratory**
6 Montney Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofina.com

[illegible]

15 DECEMBER 2023

Client	Tetra Tech Coffey
Client Contact	Jeremy Wicks
Client Details	L5/120 Edward Street, Brisbane QLD 4000
Job address	Newdegate Street, Greenslopes QLD 4120
HazSure Job No.	HL3844.S.1
Purchase Order	-

Material Analysis Findings – Newdegate Street, Greenslopes QLD 4120

Dear Jeremy,

Please see below for the summary of the analysis results for the submitted soil samples for suspected asbestos containing material (ACM) received on Thursday 14 December 2023.

1. Summary

HazSure Consultants (HazSure) were engaged by to undertake asbestos fibre analysis in *AS4964-2004 Method for the qualitative identification of asbestos in bulk samples*. In addition, the client has requested that analysis of the submitted samples is to include the calculations of the asbestos content in accordance with the National Environmental Protection Measure (NEPM) 2013 in conjunction with the *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009)*.

Hazsure received the suspected ACM containing samples and processed them through our internal NATA accredited laboratory. The NATA accredited laboratory certificate can be found in Attachment A.

2. Limitation of Reporting

The NEPM states (B1 Table 7, note 5) that:

“The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures (refer to section 4.10). This screening level is not applicable to free fibres”.

The NEPM indicates that there is no reliable method accepted in Australia to separate and quantify free fibres in soil samples. ‘Free fibres’ are detected by Polarised Light Microscopy (PLM), in performed accordance with the Australian Standard 4964. PLM analysis has a higher reporting limit than what is possible that what is required by the WA guidelines. Free fibres in the respirable size range can only be found by this method during trace analysis, as described in AS4964: 2004, is deemed to be ‘at the reporting limit of 0.1g/kg’ (0.01%).

Note that free fibres may still be present at <0.01%, even if not found in trace analysis. The LOR for the identification of all forms of asbestos in soil is determined by the least sensitive (i.e.

highest LOR) analytical method applied. It follows that identification by PLM of asbestos under AS4964 (reporting one result for 'asbestos') has a higher LOR than the independent LORs for the various forms of asbestos such as 'ACM' or 'AF and FA (excluding free fibres)' as performed by HazSure Consultants.

The concentrations in accordance with the WA guidelines and NEPM (2013) are not part of the laboratories NATA accreditation as the LOR is not covered by AS4964-2004. All calculations and subsequent concentration results are provided by HazSure Consultants are provided in attachment B, in addition to the HazSure NATA accredited certificate.

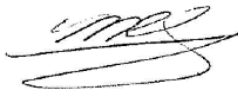
3. References

The legislation, guidelines, and Australian Standards referenced in this report include:

- AS4964-2004 *Method for the qualitative identification of asbestos in bulk samples*.
- *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia* May 2009.
- *National Environment Protection (Assessment of Site Contamination) Amendment Measure* 2013.

Thank you for the opportunity to assist you. If you have further queries in relation to this report, please do not hesitate to contact me on (07) 3157 2556.

Kind regards,



Myles Stace
General Manager
Asbestos and Built Environment
Asbestos Assessors Licence – 2317273

Attachment A

NATA Accredited Laboratory Certificate of Analysis

Client:	Tetra Tech Coffey	Date Sampled:	14 December 2023
Client Address:	L5/120 Edward Street, Brisbane QLD 4000	Date Received:	14 December 2023
Client Contact:	Jeremy Wicks	Date Analysed/Reported:	15 December 2023
Phone No:	07 3239 9357	Order No:	N/A
Email:	jeremy.wicks@tetrattech.com; alistair.mclay@tetrattech.com	Sampled By:	As received by client
Site/Location:	Newdegate Street, Greenslopes QLD 4120	Certificate No:	HL3844.S.1

CERTIFICATE OF ANALYSIS

Laboratory Fibre Identification - Non-Homogenous Sample Analysis

Analysis Method:

Samples submitted to HazSure Laboratory for qualitative fibre identification are subjected to polarised light microscopy including dispersion staining techniques. Examination of samples is completed in accordance with AS4964-2004 Method for qualitative identification of asbestos in bulk samples and HazSure's in-house method ID1 Fibre Identification.

Lab No.	Sample No.	Sample Description	Sample Material	Weight (g)	Fibres Identified in Material	Trace Asbestos
1	HSB_018	Dark brown silty clay LP - Dry ash, trace rootlets, weathered rock	Soil	706.59	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
2	HSB_019	Dark brown silty clay LP - Dry ash, trace rootlets, weathered rock	Soil	583.78	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
3	HSB_020	Dark brown clay, dark red brown dirt MP-HP - Trace weathered rootlets, ash	Soil	690.58	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
4	HSB_021	Dark brown clay, dark red brown dirt MP-HP - Trace weathered rootlets, ash	Soil	588.26	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
5	HSB_022	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	631.55	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
6	HSB_023	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	531.97	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
7	HSB_024	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	457.62	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
8	HSB_025	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	839.86	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos
9	HSB_026	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	493.50	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos

Legend:

- CH** Chrysotile asbestos detected
- AM** Amosite asbestos detected
- CR** Crocidolite asbestos detected
- NAD** No asbestos detected
- OF** Organic fibres detected
- SMF** Synthetic mineral fibre detected
- UMF** Unknown mineral fibre detected

Approved Identifier:



Name: Adam Maurice

Approved Signatory:



Name: Adam Maurice

Notes:

HazSure accepts no responsibility for the collection, packaging and or transportation of samples submitted to the laboratory by external persons. All samples received are analysed as received and results relate specifically to the samples submitted for testing. Sample descriptions are as provided by the client. If no descriptions are provided the laboratory will label them as per the sample number. Sampling is not covered by HazSure's accreditation. This document may not be reproduced except in full.

*If denoted by an asterisk, the sample may not meet the minimum requirements to perform a sufficient analysis. In this event the client has been notified, and analysis carried out with that understanding

In the case of an "NAD" result, refer to AS4964-2004: 9.5 - Non-homogenous Samples - No Asbestos Evident (trace analysis required) "Notes: 2. The above results can be interpreted that the sample contains no detectable 'respirable' asbestos fibres."

Client: Tetra Tech Coffey
Site/ Location: Newdegate Street, Greenslopes QLD 4120
Date Sampled: 14 December 2023
Certificate No: HL3844.S.1

CERTIFICATE OF ANALYSIS

Laboratory Fibre Identification - Non-Homogenous Sample Analysis

Analysis Method:

Samples submitted to HazSure Laboratory for qualitative fibre identification are subjected to polarised light microscopy including dispersion straining techniques. Examination of samples is completed in accordance with AS4964-2004 Method for qualitative identification of asbestos in bulk samples and HazSure's in-house method ID1 Fibre Identification.

Lab No.	Sample No.	Sample Description	Sample Material	Weight (g)	Fibres Identified in Material	Trace Asbestos
10	HSB_027	MP-HP clay dark brown - Dry trace weathered rock, rootlets	Soil	519.20	NAD, OF at reporting limit of 0.1g/kg	No Trace Asbestos

Legend:

- CH** Chrysotile asbestos detected
- AM** Amosite asbestos detected
- CR** Crocidolite asbestos detected
- NAD** No asbestos detected
- OF** Organic fibres detected
- SMF** Synthetic mineral fibre detected
- UMF** Unknown mineral fibre detected

Approved Identifier:



Name: Adam Maurice

Approved Signatory:



Name: Adam Maurice

Notes:

HazSure accepts no responsibility for the collection, packaging and or transportation of samples submitted to the laboratory by external persons. All samples received are analysed as received and results relate specifically to the samples submitted for testing. Sample descriptions are as provided by the client. If not descriptions are provided the laboratory will label them as per the sample number. Sampling is not covered by HazSure's accreditation. This document may not be reproduced except in full.

*If denoted by an asterisk, the sample may not meet the minimum requirements to perform a sufficient analysis. In this event the client has been notified, and analysis carried out with that understanding

In the case of an "NAD" result, refer to AS4964-2004: 9.5 - Non-homogenous Samples - No Asbestos Evident (trace analysis required) "Notes: 2. The above results can be interpreted that the sample contains no detectable 'respirable' asbestos fibres."

Attachment B

Results in accordance with the WA Guidelines and NEPM (2013)

****Not covered by NATA accreditation****

Table B.1: Material findings and concentrations in accordance with the NEPM (2013).

Sample No:		ACM (0.01%) (>7mm)				FA/AF (0.001%) (2-7mm & <2mm)					
		Fibre Type	Material	Weight of asbestos (g)	weight/weight (g/g)	Concentration	Fibre Type	Material	Weight of asbestos (g)	weight/weight (g/g)	Concentration
HSB_018		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_019		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_020		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_021		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_022		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_023		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_024		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
CH	Chrysotile asbestos detected			CR	Crocidolite asbestos detected			OF	Organic fibres detected		
AM	Amosite asbestos detected			UMF	Unknown mineral fibre detected			SMF	Synthetic mineral fibre detected		
NAD*	No Asbestos Detected - at the reporting limit 0.1g/kg										

Sample No:		ACM (0.01%) (>7mm)				FA/AF (0.001%) (2-7mm & <2mm)					
		Fibre Type	Material	Weight of asbestos (g)	weight/weight (g/g)	Concentration	Fibre Type	Material	Weight of asbestos (g)	weight/weight (g/g)	Concentration
HSB_025		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_026		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
HSB_027		NAD*	N/A	N/A	N/A	<0.01%	NAD*	N/A	N/A	N/A	<0.001%
CH	Chrysotile asbestos detected			CR	Crocidolite asbestos detected			OF	Organic fibres detected		
AM	Amosite asbestos detected			UMF	Unknown mineral fibre detected			SMF	Synthetic mineral fibre detected		
NAD*	No Asbestos Detected - at the reporting limit 0.1g/kg										