



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 24-45123

Final Report

205942

Page 1 of 6

Client: Environmental and Analytical Laboratories

Contact: Michael Glazier

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Scoresby Laboratory
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Contact:

Brad Snibson
Client Manager
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PO No: PU151786

Date Sampled:

19-Jun-2024 - 12-Jul-2024

Sampler Name:

Date Samples Received:

17-Jul-2024

ALS Program Ref:

EAL

Date Issued:

19-Aug-2024

Program Description: Analysis for EAL

Client Ref: Analysis

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

Analysis	Method	Laboratory	Analysis	Method	Laboratory
MS Total Metals	WG020B	Scoresby	BTEXN	WP074	Scoresby
CHC	WP084	Scoresby	Fluoride	WK040LL	Scoresby
HVOL	WP074	Scoresby	OCP	WP068A	Scoresby
OPP	WP130	Scoresby	PAH	WP075B	Scoresby
SO4 DA	WD041G	Scoresby	TOC (SFA)	WP005SF 002SF	Scoresby
TRH F2	# WP071	Scoresby	TRH & TPH (>C10)	WP071	Scoresby
TRH (C6-C10) & F1	WP074 (F1 not NATA)	Scoresby	TOC	EP003	ALS Brisbane

TOC is analysed as NPOC and VOCs if present may be compromised when removing inorganic carbon .

Signatories

Name	Title	Name	Title
Alan Chung	Team Leader Metals	Amanda Harcourt	Technical Assistant
Brad Snibson	Client Manager	Hoa Nguyen	Analyst
Hao Zhang	Team Leader Organics	Joseph De Alwis	Analyst
Kosta Christopoulos	Team Leader Organics		

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.

Soil microb

Samples are tested within holding time unless otherwise stated.

Results contained within this report relate only to the samples tested.

The report shall not be reproduced, except in full.

Batch No:

24-45123

Report Number:

205942

Client:

Environmental and Analytical Laboratories

ALS Program Ref:

EAL

Program Description:

Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10073342	NONE	24Jul-0071	WATER	02/07/24 07:37
10073343	NONE	24Jul-0072	WATER	02/07/24 07:29
10073344	NONE	24Jul-0073	WATER	02/07/24 07:24

Analysis - Analyte	Sample No.	10073342	10073343	10073344
	Site Code	NONE	NONE	NONE
	Units			
TOC (SFA) - Total Organic Carbon	mg/L	11		
Fluoride - Fluoride, as F	mg/L	0.13		
SO4 DA - Sulphate, as SO4	mg/L	40		
BTEXN - Benzene	mg/L		<0.001	<0.001
BTEXN - Toluene	mg/L		<0.001	<0.001
BTEXN - Ethyl Benzene	mg/L		<0.001	<0.001
BTEXN - Xylene - m & p	mg/L		<0.002	<0.002
BTEXN - Xylene - o	mg/L		<0.001	<0.001
BTEXN - Naphthalene	mg/L		<0.001	<0.001
BTEXN - Total Xylenes	mg/L		<0.002	<0.002
BTEXN - BTEX (Sum)	mg/L		<0.002	<0.002
TRH (C6-C10) & F1 - TPH C6-C9	mg/L		<0.1	<0.1
TRH (C6-C10) & F1 - TRH C6-C10	mg/L		<0.1	<0.1
TRH (C6-C10) & F1 - TRH C6-C10 minus BTEX	mg/L		<0.1	<0.1
TRH F2 - TRH>C10-C16 minus Naphthalene	mg/L		<0.1	0.2
TRH & TPH (>C10) - TPH C10-C14	mg/L		<0.1	0.1
TRH & TPH (>C10) - TPH C15-C28	mg/L		0.4	0.2
TRH & TPH (>C10) - TPH C29-C36	mg/L		0.2	0.3
TRH & TPH (>C10) - Sum of TPH C10-C36	mg/L		0.6	0.6
TRH & TPH (>C10) - TRH>C10-C16	mg/L		<0.1	0.2
TRH & TPH (>C10) - TRH>C16-C34	mg/L		0.5	0.4
TRH & TPH (>C10) - TRH>C34-C40	mg/L		0.2	0.1
TRH & TPH (>C10) - Sum of TRH>C10-C40	mg/L		0.7	0.7
PAH - Naphthalene	mg/L		<0.001	<0.001
PAH - Acenaphthylene	mg/L		<0.001	<0.001
PAH - Acenaphthene	mg/L		<0.001	<0.001
PAH - Fluorene	mg/L		<0.001	<0.001
PAH - Phenanthrene	mg/L		<0.001	<0.001
PAH - Anthracene	mg/L		<0.001	<0.001
PAH - Fluoranthene	mg/L		<0.001	<0.001
PAH - Pyrene	mg/L		<0.001	<0.001
PAH - Benz(a)anthracene	mg/L		<0.001	<0.001
PAH - Chrysene	mg/L		<0.001	<0.001
PAH - Benzo(b)fluoranthene	mg/L		<0.001	<0.001
PAH - Benzo(k)fluoroanthene	mg/L		<0.001	<0.001
PAH - Benzo(a)pyrene	mg/L		<0.001	<0.001
PAH - Dibenz(a,h)anthracene	mg/L		<0.001	<0.001
PAH - Benzo(g,h,i)perylene	mg/L		<0.001	<0.001
PAH - Indeno(1,2,3-cd)pyrene	mg/L		<0.001	<0.001
PAH - Total PAH	mg/L		<0.001	<0.001
PAH - p-Terphenyl-d14-SURR	%		83.1	102.3
CHC - 1,2,3,4-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3-Trichlorobenzene	mg/L	<0.001		
CHC - 1,2,4,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,4-Trichlorobenzene	mg/L	<0.001		
CHC - 1,2-Dichlorobenzene	mg/L	<0.001		
CHC - 1,3,5-Trichlorobenzene	mg/L	<0.001		
CHC - 1,3-Dichlorobenzene	mg/L	<0.001		

Batch No:

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205942

Client:

Environmental and Analytical Laboratories

ALS Program Ref:

EAL

Program Description:

Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10073342	NONE	24Jul-0071	WATER	02/07/24 07:37
10073343	NONE	24Jul-0072	WATER	02/07/24 07:29
10073344	NONE	24Jul-0073	WATER	02/07/24 07:24
			10073342 NONE	10073343 NONE
CHC - 1,4-Dichlorobenzene	mg/L	<0.001		
CHC - 2-Chloronaphthalene	mg/L	<0.001		
CHC - Benzal Chloride	mg/L	<0.001		
CHC - Benzotrchloride	mg/L	<0.001		
CHC - Benzylchloride	mg/L	<0.001		
CHC - Hexachloroethane	mg/L	<0.001		
CHC - Hexachlorobutadiene	mg/L	<0.001		
CHC - Hexachlorocyclopentadiene	mg/L	<0.001		
CHC - Pentachlorobenzene	mg/L	<0.001		
HVOL - 1,1,1,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1,2,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethene	mg/L	<0.001		
HVOL - 1,1-Dichloropropene	mg/L	<0.001		
HVOL - 1,2,3-Trichloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromo-3-chloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromoethane	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [cis]	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [trans]	mg/L	<0.001		
HVOL - 1,2-Dichloroethane	mg/L	<0.001		
HVOL - 1,2-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [cis]	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [trans]	mg/L	<0.001		
HVOL - 2,2-Dichloropropane	mg/L	<0.001		
HVOL - 2-Chlorotoluene	mg/L	<0.001		
HVOL - 4-Chlorotoluene	mg/L	<0.001		
HVOL - Bromochloromethane	mg/L	<0.001		
HVOL - Bromodichloromethane	mg/L	<0.001		
HVOL - Bromobenzene	mg/L	<0.001		
HVOL - Bromoform (Tribromomethane)	mg/L	<0.001		
HVOL - Carbon Tetrachloride	mg/L	<0.001		
HVOL - Chloroform (Trichloromethane)	mg/L	<0.001		
HVOL - Chlorobenzene	mg/L	<0.001		
HVOL - Dibromochloromethane	mg/L	<0.001		
HVOL - Dibromomethane	mg/L	<0.001		
HVOL - Dichloromethane	mg/L	<0.002		
HVOL - Trichlorofluoromethane (CFC11)	mg/L	<0.002		
HVOL - Tetrachloroethene	mg/L	<0.001		
HVOL - Vinyl Chloride (Monomer)	mg/L	<0.002		
HVOL - 1,1,1-Trichloroethane	mg/L	<0.001		
HVOL - 1,1,2-Trichloroethane	mg/L	<0.001		
HVOL - Trichloroethene	mg/L	<0.001		

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Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10073345	NONE	24Jul-0074	WATER	02/07/24 07:42
10073346	NONE	24Jul-0135	WATER	12/07/24
10073347	NONE	24Jun-0115	OTHER	19/06/24

Analysis - Analyte	Sample No.	10073345	10073346	10073347
	Site Code	NONE	NONE	NONE
	Units			
TOC (SFA) - Total Organic Carbon	mg/L	23	28	
Fluoride - Fluoride, as F	mg/L	0.16		
SO4 DA - Sulphate, as SO4	mg/L	16		
MS Total Metals - Arsenic	mg/kg			<5
MS Total Metals - Mercury	mg/kg			<0.05
MS Total Metals - Molybdenum	mg/kg			<5
TRH (C6-C10) & F1 - TPH C6-C9	mg/L		<0.1	
TRH (C6-C10) & F1 - TRH C6-C10	mg/L		<0.1	
TRH (C6-C10) & F1 - TRH C6-C10 minus BTEX	mg/L		<0.1	
OCP - BHC (alpha Isomer)	mg/L		<0.001	
OCP - Aldrin	mg/L		<0.001	
OCP - BHC (beta Isomer)	mg/L		<0.001	
OCP - Chlordane	mg/L		<0.001	
OCP - cis-Chlordane	mg/L		<0.001	
OCP - trans-Chlordane	mg/L		<0.001	
OCP - BHC (delta Isomer)	mg/L		<0.001	
OCP - 4,4-DDD	mg/L		<0.001	
OCP - 4,4-DDE	mg/L		<0.001	
OCP - 4,4-DDT	mg/L		<0.001	
OCP - Dieldrin	mg/L		<0.001	
OCP - Endosulfan I	mg/L		<0.001	
OCP - Endosulfan II	mg/L		<0.001	
OCP - Sum of alpha-, beta- and Endosulphan Sulphate	mg/L		<0.001	
OCP - Endosulfan Sulfate	mg/L		<0.001	
OCP - Endrin Aldehyde	mg/L		<0.001	
OCP - Endrin	mg/L		<0.001	
OCP - Endrin Ketone	mg/L		<0.001	
OCP - Hexachlorobenzene	mg/L		<0.001	
OCP - Heptachlor Epoxide	mg/L		<0.001	
OCP - Heptachlor	mg/L		<0.001	
OCP - Lindane (BHC gamma Isomer)	mg/L		<0.001	
OCP - Methoxychlor	mg/L		<0.001	
OCP - Oxychlordane	mg/L		<0.001	
OCP - Sum of DDD, DDE and DDT	mg/L		<0.001	
OCP - Sum of Aldrin and Dieldrin	mg/L		<0.001	
OCP - 2,4,5,6-tetrachloro-m-xylene-SURR	%		120.5	
OPP - Chlorpyrifos	mg/L		<0.001	
OPP - Diazinon	mg/L		<0.001	
OPP - Dichlorvos	mg/L		<0.001	
OPP - Ethion	mg/L		<0.001	
OPP - Fenthion	mg/L		<0.001	
OPP - Malathion	mg/L		<0.001	
OPP - Mevinphos	mg/L		<0.001	
OPP - Parathion	mg/L		<0.001	
OPP - Ronnel (Fenchlorfos)	mg/L		<0.001	
OPP - Stirofos	mg/L		<0.001	
CHC - 1,2,3,4-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3-Trichlorobenzene	mg/L	<0.001		

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Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
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10073346	NONE	24Jul-0135	WATER	12/07/24
10073347	NONE	24Jun-0115	OTHER	19/06/24

		10073345 NONE	10073346 NONE	10073347 NONE
CHC - 1,2,4,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,4-Trichlorobenzene	mg/L	<0.001		
CHC - 1,2-Dichlorobenzene	mg/L	<0.001		
CHC - 1,3,5-Trichlorobenzene	mg/L	<0.001		
CHC - 1,3-Dichlorobenzene	mg/L	<0.001		
CHC - 1,4-Dichlorobenzene	mg/L	<0.001		
CHC - 2-Chloronaphthalene	mg/L	<0.001		
CHC - Benzal Chloride	mg/L	<0.001		
CHC - Benzotrichloride	mg/L	<0.001		
CHC - Benzylchloride	mg/L	<0.001		
CHC - Hexachloroethane	mg/L	<0.001		
CHC - Hexachlorobutadiene	mg/L	<0.001		
CHC - Hexachlorocyclopentadiene	mg/L	<0.001		
CHC - Pentachlorobenzene	mg/L	<0.001		
HVOL - 1,1,1,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1,2,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethene	mg/L	<0.001		
HVOL - 1,1-Dichloropropene	mg/L	<0.001		
HVOL - 1,2,3-Trichloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromo-3-chloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromoethane	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [cis]	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [trans]	mg/L	<0.001		
HVOL - 1,2-Dichloroethane	mg/L	<0.001		
HVOL - 1,2-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [cis]	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [trans]	mg/L	<0.001		
HVOL - 2,2-Dichloropropane	mg/L	<0.001		
HVOL - 2-Chlorotoluene	mg/L	<0.001		
HVOL - 4-Chlorotoluene	mg/L	<0.001		
HVOL - Bromochloromethane	mg/L	<0.001		
HVOL - Bromodichloromethane	mg/L	<0.001		
HVOL - Bromobenzene	mg/L	<0.001		
HVOL - Bromoform (Tribromomethane)	mg/L	<0.001		
HVOL - Carbon Tetrachloride	mg/L	<0.001		
HVOL - Chloroform (Trichloromethane)	mg/L	<0.001		
HVOL - Chlorobenzene	mg/L	<0.001		
HVOL - Dibromochloromethane	mg/L	<0.001		
HVOL - Dibromomethane	mg/L	<0.001		
HVOL - Dichloromethane	mg/L	<0.002		
HVOL - Trichlorofluoromethane (CFC11)	mg/L	<0.002		
HVOL - Tetrachloroethene	mg/L	<0.001		
HVOL - Vinyl Chloride (Monomer)	mg/L	<0.002		
HVOL - 1,1,1-Trichloroethane	mg/L	<0.001		
HVOL - 1,1,2-Trichloroethane	mg/L	<0.001		
HVOL - Trichloroethene	mg/L	<0.001		
TOC - Total Organic Carbon, as C	mg/kg			12000

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Client: Environmental and Analytical Laboratories
ALS Program Ref: EAL
Program Description: Analysis for EAL



A blank space indicates no test performed.

