

Cootamundra Gundagai Regional Council

Friday, January 25, 2019

PO Box 420

Cootamundra NSW 2590



NATA Accredited Laboratory
Number: 9597

Accredited for compliance with
ISO/IEC 17025 - Testing

LABORATORY ANALYSIS REPORT

Report Number:1901-0068

Page 1 of 3

For all enquiries related to this report please quote document number: 1901-0068

<u>Facility:</u>	<u>Order #</u>				
<u>Sample Type</u>	<u>Collected By</u>			<u>Date Received</u>	
Water	G Finucane			11-January-2019	
<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
19Jan-0211	Tip Dam 1 Surface (EPA 1) 09.01.19	Alkalinity, Total as CaCO ₃	59 mg/L	APHA 2320 B	2
		Ammonia as N	0.3 mg/L	APHA 4500-NH ₃ F	0.1
		Calcium (acid extractable)	15.3 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	51.5 mg/L	APHA 4110 B	0.1
		Conductivity	315 µS/cm	APHA 2510 B	1
		Fluoride	0.1 mg/L	APHA 4110 B	0.1
		Iron (acid extractable)	2.48 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	6.26 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.463 mg/L	APHA 3030 E/3120 B	0.001
		Nitrate as N	<0.1 mg/L	APHA 4110 B	0.1
		Phenolics - Total	0.5 mg/L	* APHA 5530 D	0.2
		pH	8.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	10.3 mg/L	APHA 3030 E/3120 B	0.2
		Sodium (acid extractable)	30.2 mg/L	APHA 3030 E/3120 B	0.05
		Refer to ALS Report Number:	19-04744	Analysis by ALS, Melbourne (acc no. 992)	
		Sulphate	9.8 mg/L	APHA 4110 B	0.5
		Total Organic Carbon	15 mg/L	* APHA 5310 C	
		Total Suspended Solids	26 mg/L	APHA 2540 D	2
19Jan-0212	Tip Dam 4 Surface (EPA pending) 09.01.19	Alkalinity, Total as CaCO ₃	78 mg/L	APHA 2320 B	2
		Ammonia as N	0.5 mg/L	APHA 4500-NH ₃ F	0.1

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Facility:	Order #	
Sample Type	Collected By	Date Received
Water	G Finucane	11-January-2019

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
19Jan-0212	Tip Dam 4 Surface (EPA pending) 09.01.19	Calcium (acid extractable)	22.1 mg/L	APHA 3030 E/3120 B	0.03
		Chloride	114 mg/L	APHA 4110 B	0.1
		Conductivity	560 µS/cm	APHA 2510 B	1
		Fluoride	0.1 mg/L	APHA 4110 B	0.1
		Iron (acid extractable)	4.08 mg/L	APHA 3030 E/3120 B	0.01
		Magnesium (acid extractable)	10.9 mg/L	APHA 3030 E/3120 B	0.02
		Manganese (acid extractable)	0.969 mg/L	APHA 3030 E/3120 B	0.001
		Nitrate as N	<0.1 mg/L	APHA 4110 B	0.1
		Phenolics - Total	0.9 mg/L	* APHA 5530 D	0.2
		pH	8.0 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	16.9 mg/L	APHA 3030 E/3120 B	0.2
		Sodium (acid extractable)	60.9 mg/L	APHA 3030 E/3120 B	0.05
		Refer to ALS Report Number:	19-04744	Analysis by ALS, Melbourne (acc no. 992)	
		Sulphate	6.9 mg/L	APHA 4110 B	0.5
		Total Organic Carbon	25 mg/L	* APHA 5310 C	
		Total Suspended Solids	58 mg/L	APHA 2540 D	2

Note:

* NATA Accreditation does not cover the performance of this service.

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Page 3 of 3

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<u>Facility:</u>	<u>Order #</u>	
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	G Finucane	11-January-2019

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
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Signed..... David Wade, Laboratory Manager.

*All samples analysed as received.
All soil results are reported on a dry basis.
The EAL takes no responsibility for the end use of results within this report.
This report shall not be reproduced except in full.
This report replaces any previously issued report*

CERTIFICATE OF ANALYSIS

Batch No:	19-04744	<i>Page</i>	Page 1 of 3
<i>Final Report</i>	734697	<i>Laboratory</i>	Scoresby Laboratory
<i>Client:</i>	Environmental and Analytical Laboratories	<i>Address</i>	Caribbean Business Park, 22 Dalmore Drive, Scoresby, VIC 3179
<i>Contact:</i>	David Wade	<i>Phone</i>	03 8756 8000
<i>Address:</i>	Charles Sturt University Locked Bag 588 WAGGA WAGGA NSW 2678	<i>Fax</i>	03 9763 1862
		<i>Contact:</i>	Linna Truong Client Manager Linna.Truong@alsglobal.com
<i>PO No:</i>	P0197464	<i>Date Sampled:</i>	17-Jan-2019
<i>Sampler Name:</i>	EAL	<i>Date Samples Received:</i>	17-Jan-2019
<i>ALS Program Ref:</i>	EAL	<i>Date Issued:</i>	22-Jan-2019
<i>Program Description:</i>	Analysis for EAL		
<i>Client Ref:</i>	Analysis		

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

Analysis	Method	Laboratory	Analysis	Method	Laboratory
HVOL	WP074	Scoresby	TOC (SFA)	WP005SF 002SF	Scoresby
VFA / VOA	WP045B	Scoresby			

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

Signatories

Name	Title	Name	Title
Chatura Perera	Team Leader Nutrients	Hao Zhang	Team Leader Organics
Joseph De Alwis	Analyst		



NATA
Accreditation No. 992
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Samples not collected by ALS and are tested as received.

Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

MM524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

MM526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.

Legionella species refers to Legionella species other than Legionella pneumophila

Measurement Uncertainties values for your compliance results are available at this link

Page: Page 2 of 3
 Batch No: 19-04744
 Report Number: 734697
 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
5962636		19Jan-0169	WATER	17/01/19
5962637		19Jan-0171	WATER	17/01/19
5962638		19Jan-0173	WATER	17/01/19
5962639		19Jan-0174	WATER	17/01/19

Analysis - Analyte	Sample No.	5962636	5962637	5962638	5962639
	Site Code Units				
VFA / VOA - Volatile Fatty Acids / Volatile Organic Acids	mg/L	24	25	49	44



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
5962640		19Jan-0211	WATER	17/01/19
5962641		19Jan-0212	WATER	17/01/19

Analysis - Analyte	Sample No.	5962640	5962641
	Site Code Units		
TOC (SFA) - Total Organic Carbon	mg/L	15	25
HVOL - 1,1,1,2-Tetrachloroethane	mg/L	<0.001	<0.001
HVOL - 1,1,2,2-Tetrachloroethane	mg/L	<0.001	<0.001
HVOL - 1,1-Dichloroethane	mg/L	<0.001	<0.001
HVOL - 1,1-Dichloroethene	mg/L	<0.001	<0.001
HVOL - 1,1-Dichloropropene	mg/L	<0.001	<0.001
HVOL - 1,2,3-Trichloropropane	mg/L	<0.001	<0.001
HVOL - 1,2-Dibromo-3-chloropropane	mg/L	<0.001	<0.001
HVOL - 1,2-Dibromoethane	mg/L	<0.001	<0.001
HVOL - 1,2-Dichloroethene [cis]	mg/L	<0.001	<0.001
HVOL - 1,2-Dichloroethene [trans]	mg/L	<0.001	<0.001
HVOL - 1,2-Dichloroethane	mg/L	<0.001	<0.001
HVOL - 1,2-Dichloropropane	mg/L	<0.001	<0.001
HVOL - 1,3-Dichloropropane	mg/L	<0.001	<0.001
HVOL - 1,3-Dichloropropene [cis]	mg/L	<0.001	<0.001
HVOL - 1,3-Dichloropropene [trans]	mg/L	<0.001	<0.001
HVOL - 2,2-Dichloropropane	mg/L	<0.001	<0.001
HVOL - 2-Chlorotoluene	mg/L	<0.001	<0.001
HVOL - 4-Chlorotoluene	mg/L	<0.001	<0.001
HVOL - Bromochloromethane	mg/L	<0.001	<0.001
HVOL - Bromodichloromethane	mg/L	<0.001	<0.001
HVOL - Bromobenzene	mg/L	<0.001	<0.001
HVOL - Bromoform (Tribromomethane)	mg/L	<0.001	<0.001
HVOL - Carbon Tetrachloride	mg/L	<0.001	<0.001
HVOL - Chloroform (Trichloromethane)	mg/L	<0.001	<0.001
HVOL - Chlorobenzene	mg/L	<0.001	<0.001
HVOL - Dibromochloromethane	mg/L	<0.001	<0.001
HVOL - Dibromomethane	mg/L	<0.001	<0.001
HVOL - Dichloromethane	mg/L	<0.002	<0.002
HVOL - Trichlorofluoromethane (CFC11)	mg/L	<0.002	<0.002
HVOL - Tetrachloroethene	mg/L	<0.001	<0.001
HVOL - Vinyl Chloride (Monomer)	mg/L	<0.002	<0.002
HVOL - 1,1,1-Trichloroethane	mg/L	<0.001	<0.001
HVOL - 1,1,2-Trichloroethane	mg/L	<0.001	<0.001
HVOL - Trichloroethene	mg/L	<0.001	<0.001

A blank space indicates no test performed.