

Cootamundra Gundagai Regional Council

Thursday, February 10, 2022

PO Box 420

Cootamundra NSW 2590

Attention: Andrew Brock



NATA Accredited Laboratory
Number: 9597

Accredited for compliance with
ISO/IEC 17025 - Testing

LABORATORY ANALYSIS REPORT

Report Number: 2112-0075

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For all enquiries related to this report please quote document number: 2112-0075

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		16-December-2021
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	G. Finucane	16-December-2021

<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>
21Dec-0243	P1 16.12.21 8.30am	Ammonia as N	1.2 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	3 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	85.3 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	<1 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1750 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	68.7 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Oil & Grease	5 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.15 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.49 mg/L	LTM-W-030	0.01
		pH	7.1 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	8.0 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	160 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	5 mg/L	APHA 2540 D	2

21Dec-0244	P12 16.12.21 8.45am	Ammonia as N	0.6 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	3 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	83.1 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	<1 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1710 µS/cm	APHA 2510 B	1

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21Dec-0244	P12 16.12.21 8.45am	Magnesium (acid extractable)	66.7 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Oil & Grease	4 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.18 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.43 mg/L	LTM-W-030	0.01
		pH	8.5 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	7.9 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	153 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	9 mg/L	APHA 2540 D	2
21Dec-0245	M1 16.12.21 9.25am	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Faecal coliforms	190 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1870 µS/cm	APHA 2510 B	1
		Nitrate as N	2.1 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.14 mg/L	LTM-W-030	0.01
		pH	8.0 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	6 mg/L	APHA 2540 D	2
21Dec-0246	M2 16.12.21 9.15am				

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Water	G. Finucane	16-December-2021			
<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>
21Dec-0246	M2 16.12.21 9.15am	Ammonia as N	0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Faecal coliforms	1600 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1800 µS/cm	APHA 2510 B	1
		Nitrate as N	0.2 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.14 mg/L	LTM-W-030	0.01
		pH	7.9 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	20 mg/L	APHA 2540 D	2
21Dec-0247	R3 16.12.21 9.00am	Ammonia as N	0.2 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Faecal coliforms	420 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1700 µS/cm	APHA 2510 B	1
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.30 mg/L	LTM-W-030	0.01
		pH	7.9 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	17 mg/L	APHA 2540 D	2
21Dec-0248	Aeration Lagoon 16.12.21 7.30am	Ammonia as N	20 mg/L	LTM-W-042	0.5

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Water	G. Finucane	16-December-2021			
<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>
21Dec-0248	Aeration Lagoon 16.12.21 7.30am	Biochemical Oxygen Demand	395 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	163 mg/L	APHA 3030 E/3120 B	2
		Chloride	204 mg/L	APHA 4110 B	0.1
		Faecal coliforms	800000 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2000 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	85.0 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	2.5 mg/L	LTM-W-022	0.1
		Nitrogen, total	102 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	2.6 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	53.6 mg/L	LTM-W-030	0.3
		pH	7.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	15.2 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	166 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1360 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	99 mg/L	LTM-W-034	2
		Total Organic Nitrogen	79 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	1540 mg/L	APHA 2540 D	2
21Dec-0249	Clarifier 16.12.21 7.50am	Ammonia as N	5.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	6 mg/L	APHA 5210 B/4500-O G	2

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21Dec-0249	Clarifier 16.12.21 7.50am	Calcium (acid extractable)	132 mg/L	APHA 3030 E/3120 B	2
		Chloride	210 mg/L	APHA 4110 B	0.1
		Faecal coliforms	1500 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2050 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	72.2 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.1 mg/L	LTM-W-022	0.1
		Nitrogen, total	6 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	1.0 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	0.34 mg/L	LTM-W-030	0.01
		pH	7.8 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	7.0 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	159 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1390 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	5 mg/L	LTM-W-034	2
		Total Organic Nitrogen	<2 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	5 mg/L	APHA 2540 D	2
21Dec-0250	Maturation Pond 16.12.21 8.05am	Ammonia as N	2.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	6 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	118 mg/L	APHA 3030 E/3120 B	2

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21Dec-0250	Maturation Pond 16.12.21 8.05am	Chloride	234 mg/L	APHA 4110 B	0.1
		Faecal coliforms	320 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1970 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	70.4 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	2.3 mg/L	LTM-W-022	0.1
		Nitrogen, total	5 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	2.8 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	0.30 mg/L	LTM-W-030	0.01
		pH	8.2 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	7.4 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	159 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1340 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	2 mg/L	LTM-W-034	2
		Total Organic Nitrogen	<2 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	2 mg/L	APHA 2540 D	2

Note:

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

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EAL ID	Client ID. Date/Time sample taken	Test	Result (units)	Method Reference	Limit of Reporting

Signed Michael Glazier, Laboratory Manager.

*All samples analysed as received.
 All soil results are reported on a dry basis.
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