

Cootamundra Gundagai Regional Council

Friday, October 29, 2021

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: 2109-0103

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For all enquiries related to this report please quote document number: 2109-0103

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		30-September-2021

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Surface Water	Client	30-September-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>
21Sep-0370	P1 25.09.21 8.15am	Ammonia as N	1.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	105 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	4 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1740 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	71.0 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.8 mg/L	LTM-W-022	0.1
		Oil & Grease	3 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.08 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.73 mg/L	LTM-W-030	0.01
		pH	8.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	14.3 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	186 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	<2 mg/L	APHA 2540 D	2

21Sep-0371	P12 25.09.21 8.25am	Ammonia as N	0.6 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	8 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	107 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	20 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1760 µS/cm	APHA 2510 B	1

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<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>
21Sep-0371	P12 25.09.21 8.25am	Magnesium (acid extractable)	71.3 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	2.3 mg/L	LTM-W-022	0.1
		Oil & Grease	3 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.11 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.14 mg/L	LTM-W-030	0.01
		pH	8.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	14.2 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	184 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	2 mg/L	LTM-W-034	2
		Total Suspended Solids	<2 mg/L	APHA 2540 D	2
21Sep-0372	M1 25.09.21 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	14 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2020 µS/cm	APHA 2510 B	1
		Nitrate as N	<0.1 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.05 mg/L	LTM-W-030	0.01
		pH	8.1 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	5 mg/L	APHA 2540 D	2
21Sep-0373	M2 25.09.21 8.55am				

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<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Surface Water	Client	30-September-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>
21Sep-0373	M2 25.09.21 8.55am	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	22 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2000 µS/cm	APHA 2510 B	1
		Nitrate as N	0.2 mg/L	LTM-W-022	0.1
		Phosphorus, Total	<0.01 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	3 mg/L	APHA 2540 D	2
21Sep-0374	R3 25.09.21 8.40am	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	22 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2000 µS/cm	APHA 2510 B	1
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Phosphorus, Total	<0.01 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	9 mg/L	APHA 2540 D	2
21Sep-0375	Aeration Lagoon 25.09.21 7.35am	Ammonia as N	1.1 mg/L	LTM-W-042	0.1

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Surface Water	Client	30-September-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>
21Sep-0375	Aeration Lagoon 25.09.21 7.35am	Biochemical Oxygen Demand	812 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	106 mg/L	APHA 3030 E/3120 B	2
		Chloride	101 mg/L	APHA 4110 B	0.1
		Faecal coliforms	250000 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1960 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	87.8 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	1.2 mg/L	LTM-W-022	0.1
		Nitrogen, total	138 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	1.2 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	59.9 mg/L	LTM-W-030	0.3
		pH	7.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	25.5 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	191 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1230 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	137 mg/L	LTM-W-034	2
		Total Organic Nitrogen	136 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	1510 mg/L	APHA 2540 D	2
21Sep-0376	Clarifier 25.09.21 7.50am	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	31 mg/L	APHA 5210 B/4500-O G	2

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<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>			
Surface Water	Client	30-September-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>
21Sep-0376	Clarifier 25.09.21 7.50am	Calcium (acid extractable)	132 mg/L	APHA 3030 E/3120 B	20
		Chloride	95.5 mg/L	APHA 4110 B	0.1
		Faecal coliforms	400 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2010 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	81.7 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	5.9 mg/L	LTM-W-022	0.1
		Nitrogen, total	10 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	5.9 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	0.55 mg/L	LTM-W-030	0.01
		pH	7.4 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	14.3 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	201 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1280 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	4 mg/L	LTM-W-034	2
		Total Organic Nitrogen	4 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	12 mg/L	APHA 2540 D	2
21Sep-0377	Maturation Pond 25.09.21 8.00am	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	6 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	129 mg/L	APHA 3030 E/3120 B	20

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21Sep-0377	Maturation Pond 25.09.21 8.00am	Chloride	94.5 mg/L	APHA 4110 B	0.1
		Faecal coliforms	4 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1910 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	78.2 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	1.4 mg/L	LTM-W-022	0.1
		Nitrogen, total	5 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	1.4 mg/L	APHA 4110 B	0.1
		Phosphorus, Total	0.53 mg/L	LTM-W-030	0.01
		pH	7.8 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	13.9 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	195 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1210 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	4 mg/L	LTM-W-034	2
		Total Organic Nitrogen	4 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	4 mg/L	APHA 2540 D	2

Note:

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

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Surface Water	Client	30-September-2021			
EAL ID	Client ID.	Test	Result (units)	Method Reference	Limit of Reporting
	Date/Time sample taken				

Signed Michael Glazier, Laboratory Manager.



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