

Cootamundra Gundagai Regional Council

Sunday, February 11, 2024

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: 2312-0075

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For all enquiries related to this report please quote document number: 2312-0075

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		20-December-2023

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Effluent	J. Turner	20-December-2023

<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>
23Dec-0216	P1 Outlet to Creek 18.12.23 2.30pm	Ammonia as N	0.5 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	4 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	89.8 mg/L	APHA 3030 E/3120 B	2
		Thermotolerant Faecal Coliforms	4 CFU/100mL	* AS/NZS 4276.5:2019	1
		Conductivity	1940 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	70.6 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.6 mg/L	LTM-W-014	0.1
		Oil & Grease	1 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.28 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.50 mg/L	LTM-W-030	0.01
		pH	9.1 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	10.6 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	165 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	3 mg/L	LTM-W-034	2
		Total Suspended Solids	10 mg/L	APHA 2540 D	2

23Dec-0217	P12 Pump Shed 18.12.23 2.20pm	Ammonia as N	0.4 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	4 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	87.9 mg/L	APHA 3030 E/3120 B	2
		Thermotolerant Faecal Coliforms	<1 CFU/100mL	* AS/NZS 4276.5:2019	1
		Conductivity	1930 µS/cm	APHA 2510 B	1

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23Dec-0217	P12 Pump Shed 18.12.23 2.20pm	Magnesium (acid extractable)	72.3 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.6 mg/L	LTM-W-014	0.1
		Oil & Grease	1 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.24 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.48 mg/L	LTM-W-030	0.01
		pH	9.3 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	10.9 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	170 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	3 mg/L	LTM-W-034	2
		Total Suspended Solids	9 mg/L	APHA 2540 D	2
23Dec-0218	Aeration Lagoon 18.12.23 1.50pm	Ammonia as N	23 mg/L	LTM-W-042	0.5
		Biochemical Oxygen Demand	278 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	126 mg/L	APHA 3030 E/3120 B	4
		Chloride	232 mg/L	* APHA 4500-Cl E	0.1
		Thermotolerant Faecal Coliforms	350000 CFU/100mL	* AS/NZS 4276.5:2019	1
		Conductivity	2080 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	68.2 mg/L	APHA 3030 E/3120 B	4
		Nitrate as N	0.2 mg/L	LTM-W-014	0.1
		Nitrogen, total	82 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	<0.1 mg/L	LTM-W-014	0.1

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23Dec-0218	Aeration Lagoon 18.12.23 1.50pm	Phosphorus, Total	51.8 mg/L	LTM-W-030	0.3
		pH	8.2 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	18.2 mg/L	APHA 3030 E/3120 B	4
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	151 mg/L	APHA 3030 E/3120 B	4
		Total Dissolved Solids	1340 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	82 mg/L	LTM-W-034	2
		Total Organic Nitrogen	59 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	1910 mg/L	APHA 2540 D	2
23Dec-0219	Clarifier 18.12.23 2.00pm	Ammonia as N	21 mg/L	LTM-W-042	0.5
		Biochemical Oxygen Demand	5 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	98.8 mg/L	APHA 3030 E/3120 B	2
		Chloride	220 mg/L	* APHA 4500-Cl E	0.1
		Thermotolerant Faecal Coliforms	41000 CFU/100mL	* AS/NZS 4276.5:2019	1
		Conductivity	2040 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	62.9 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.2 mg/L	LTM-W-014	0.1
		Nitrogen, total	4 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	0.6 mg/L	LTM-W-014	0.1
		Phosphorus, Total	0.63 mg/L	LTM-W-030	0.01

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23Dec-0219	Clarifier 18.12.23 2.00pm	pH	8.0 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	10.6 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	154 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1310 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	24 mg/L	LTM-W-034	2
		Total Organic Nitrogen	3 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	11 mg/L	APHA 2540 D	2
23Dec-0220	Maturation Pond 18.12.23 2.10pm	Ammonia as N	4.6 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	7 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	80.3 mg/L	APHA 3030 E/3120 B	2
		Chloride	210 mg/L	* APHA 4500-CI E	0.1
		Thermotolerant Faecal Coliforms	128 CFU/100mL	* AS/NZS 4276.5:2019	1
		Conductivity	1790 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	61.2 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	1.6 mg/L	LTM-W-014	0.1
		Nitrogen, total	4 mg/L	* APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	2.4 mg/L	LTM-W-014	0.1
		Phosphorus, Total	0.39 mg/L	LTM-W-030	0.01
		pH	8.4 pH units	APHA 4500-H+ B	



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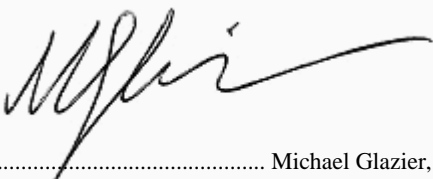
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23Dec-0220	Maturation Pond 18.12.23 2.10pm	Potassium (acid extractable)	11.2 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	149 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1150 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	7 mg/L	LTM-W-034	2
		Total Organic Nitrogen	2 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	16 mg/L	APHA 2540 D	2

Note:

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



Signed Michael Glazier, 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.
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