

Cootamundra Shire Council
PO Box 420
Cootamundra NSW 2590
Attention: Greg Ewings

Monday, June 27, 2022



NATA Accredited Laboratory
Number: 9597

Accredited for compliance with
ISO/IEC 17025 - Testing

LABORATORY ANALYSIS REPORT

Report Number: 2205-0008

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For all enquiries related to this report please quote document number: 2205-0008

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		04-May-2022

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water		04-May-2022

<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>
22May-0017	P1 02.05.22 08.20	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 (dissolved)	61.1 mg/L	APHA 3030 B/3120 B	2
		Faecal coliforms	2 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1740 µS/cm	APHA 2510 B	1
		Magnesium (dissolved)	50.1 mg/L	APHA 3030 B/3120 B	2
		Nitrate as N	0.2 mg/L	LTM-W-014	0.1
		Oil & Grease	1 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.26 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.35 mg/L	LTM-W-030	0.01
		pH	8.8 pH units	APHA 4500-H+ B	
		Potassium (dissolved)	5.1 mg/L	APHA 3030 B/3120 B	2
		Sodium (dissolved)	105 mg/L	APHA 3030 B/3120 B	2
		Total Kjeldahl Nitrogen	2 mg/L	LTM-W-034	2
		Total Suspended Solids	<2 mg/L	APHA 2540 D	2

22May-0018	P12 02.05.22 08.30	Ammonia as N	3.8 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	5 mg/L	APHA 5210 B/4500-O G	2
		Calcium (dissolved)	62.0 mg/L	APHA 3030 B/3120 B	2
		Faecal coliforms	2 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1780 µS/cm	APHA 2510 B	1

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22May-0018	P12 02.05.22 08.30	Magnesium (dissolved)	50.8 mg/L	APHA 3030 B/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	0.37 mg/L	LTM-W-030	0.01
		pH	8.8 pH units	APHA 4500-H+ B	
		Potassium (dissolved)	5.2 mg/L	APHA 3030 B/3120 B	2
		Sodium (dissolved)	108 mg/L	APHA 3030 B/3120 B	2
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	5 mg/L	APHA 2540 D	2
22May-0019	M1 02.05.22 09.10	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	6 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2500 µS/cm	APHA 2510 B	1
		Nitrate as N	<0.1 mg/L	LTM-W-014	0.1
		Phosphorus, Total	0.08 mg/L	LTM-W-030	0.01
		pH	8.2 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	<2 mg/L	APHA 2540 D	2
22May-0020	M2 02.05.22 09.00				

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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>
22May-0020	M2 02.05.22 09.00	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	84 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2490 µS/cm	APHA 2510 B	1
		Nitrate as N	<0.1 mg/L	LTM-W-014	0.1
		Phosphorus, Total	0.07 mg/L	LTM-W-030	0.01
		pH	8.2 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	12 mg/L	APHA 2540 D	2
22May-0021	R3 02.05.22 08.45	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	154 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1720 µS/cm	APHA 2510 B	1
		Nitrate as N	0.1 mg/L	LTM-W-014	0.1
		Phosphorus, Total	0.39 mg/L	LTM-W-030	0.01
		pH	8.3 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	LTM-W-034	2
		Total Suspended Solids	7 mg/L	APHA 2540 D	2
22May-0022	Aeration Lagoon 02.05.22 07.30	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1

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22May-0022	Aeration Lagoon 02.05.22 07.30	Biochemical Oxygen Demand	424 mg/L	APHA 5210 B/4500-O G	2
		Calcium (dissolved)	140 mg/L	APHA 3030 B/3120 B	2
		Chloride	225 mg/L	APHA 4110 B	0.1
		Faecal coliforms	74000 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1460 µS/cm	APHA 2510 B	1
		Magnesium (dissolved)	55.2 mg/L	APHA 3030 B/3120 B	2
		Nitrate as N	0.3 mg/L	LTM-W-014	0.1
		Nitrogen, total	54 mg/L	* APHA 4500-Norg B + 4110 B	2
		Phosphorus, Total	32.4 mg/L	LTM-W-030	0.3
		pH	7.7 pH units	APHA 4500-H+ B	
		Potassium (dissolved)	10.1 mg/L	APHA 3030 B/3120 B	2
		Sodium Adsorption Ratio	2 Ratio	LTM-W-039	
		Sodium (dissolved)	99.8 mg/L	APHA 3030 B/3120 B	2
		Total Dissolved Solids	925 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	54 mg/L	LTM-W-034	2
		Total Organic Nitrogen	54 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	1190 mg/L	APHA 2540 D	2
22May-0023	Clarifier 02.05.22 07.45	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	10 mg/L	APHA 5210 B/4500-O G	2
		Calcium (dissolved)	110 mg/L	APHA 3030 B/3120 B	2

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22May-0023	Clarifier 02.05.22 07.45	Chloride	224 mg/L	APHA 4110 B	0.1
		Faecal coliforms	2400 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1440 µS/cm	APHA 2510 B	1
		Magnesium (dissolved)	51.0 mg/L	APHA 3030 B/3120 B	2
		Nitrate as N	6.8 mg/L	LTM-W-014	0.1
		Nitrogen, total	9 mg/L	* APHA 4500-Norg B + 4110 B	2
		Phosphorus, Total	1.78 mg/L	LTM-W-030	0.01
		pH	7.8 pH units	APHA 4500-H+ B	
		Potassium (dissolved)	6.1 mg/L	APHA 3030 B/3120 B	2
		Sodium Adsorption Ratio	2 Ratio	LTM-W-039	
		Sodium (dissolved)	100 mg/L	APHA 3030 B/3120 B	2
		Total Dissolved Solids	916 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	4 mg/L	APHA 2540 D	2
22May-0024	Maturation Pond 02.05.22 08.00	Ammonia as N	2.6 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	6 mg/L	APHA 5210 B/4500-O G	2
		Calcium (dissolved)	80.5 mg/L	APHA 3030 B/3120 B	2
		Chloride	248 mg/L	APHA 4110 B	0.1
		Faecal coliforms	206 cfu/100mL	* AS/NZS 4276.7:2007	

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22May-0024	Maturation Pond 02.05.22 08.00	Conductivity	1640 µS/cm	APHA 2510 B	1
		Magnesium (dissolved)	52.8 mg/L	APHA 3030 B/3120 B	2
		Nitrate as N	1.6 mg/L	LTM-W-014	0.1
		Nitrogen, total	5 mg/L	* APHA 4500-Norg B + 4110 B	2
		Phosphorus, Total	0.65 mg/L	LTM-W-030	0.01
		pH	7.9 pH units	APHA 4500-H+ B	
		Potassium (dissolved)	5.5 mg/L	APHA 3030 B/3120 B	2
		Sodium Adsorption Ratio	2 Ratio	LTM-W-039	
		Sodium (dissolved)	105 mg/L	APHA 3030 B/3120 B	2
		Total Dissolved Solids	1040 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	3 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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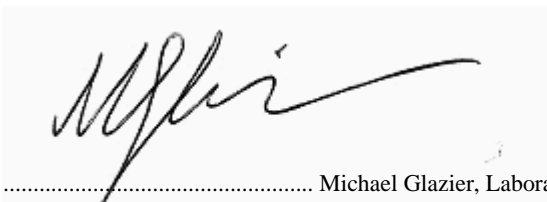
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Signed  Michael Glazier, Laboratory Manager.

*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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This report replaces any previously issued report*