

Cootamundra Gundagai Regional Council

Thursday, May 4, 2023

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: 2304-0017

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<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		06-April-2023
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	Client	06-April-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>
23Apr-0338	P1 05.04.23 7.00am	Ammonia as N	1.8 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	2 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	77.7 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	4 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1890 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	72.0 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Oil & Grease	<1 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.34 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.55 mg/L	LTM-W-030	0.01
		pH	7.2 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	15.8 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	172 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	3 mg/L	LTM-W-034	2
		Total Suspended Solids	2 mg/L	APHA 2540 D	2

23Apr-0339	P12 05.04.23 7.00am	Ammonia as N	1.8 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	2 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	77.6 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	4 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1900 µS/cm	APHA 2510 B	1

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	<u>Date/Time sample taken</u>				
23Apr-0339	<b>P12</b> 05.04.23 7.00am	<b>Magnesium (acid extractable)</b>	<b>71.8</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.3</b> mg/L	LTM-W-022	0.1
		<b>Oil &amp; Grease</b>	<b>&lt;1</b> mg/L	APHA 5520 D	1
		<b>Ortho-Phosphate as P</b>	<b>0.33</b> mg/L	LTM-W-030	0.01
		<b>Phosphorus, Total</b>	<b>0.54</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.3</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>15.9</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium (acid extractable)</b>	<b>172</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Kjeldahl Nitrogen</b>	<b>3</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>&lt;2</b> mg/L	APHA 2540 D	2
23Apr-0340	<b>Aeration Lagoon</b> 05.04.23 7.30am	<b>Ammonia as N</b>	<b>0.4</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>18</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>105</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>207</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>272</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1800</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>61.1</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>3.4</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>6</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>3.4</b> mg/L	APHA 4110 B	0.1

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23Apr-0340	<b>Aeration Lagoon</b> 05.04.23 7.30am	<b>Phosphorus, Total</b>	<b>0.79</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.4</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>16.4</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>3</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>161</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1070</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>3</b> mg/L	LTM-W-034	2
		<b>Total Organic Nitrogen</b>	<b>3</b> mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		<b>Total Suspended Solids</b>	<b>13</b> mg/L	APHA 2540 D	2
23Apr-0341	<b>Clarifier</b> 05.04.23 7.45am	<b>Ammonia as N</b>	<b>0.3</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>8</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>102</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>207</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>2880</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1800</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>60.0</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>2.7</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>5</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>2.7</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.43</b> mg/L	LTM-W-030	0.01

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23Apr-0341	<b>Clarifier</b> 05.04.23 7.45am	<b>pH</b>	<b>7.4</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>16.4</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>3</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>161</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1110</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>2</b> mg/L	LTM-W-034	2
		<b>Total Organic Nitrogen</b>	<b>&lt;2</b> mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		<b>Total Suspended Solids</b>	<b>7</b> mg/L	APHA 2540 D	2
23Apr-0342	<b>Maturation Pond</b> 05.04.23 8.00am	<b>Ammonia as N</b>	<b>2.9</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>2</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>81.3</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>215</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>510</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1650</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>54.8</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.3</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>4</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>0.3</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.72</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.8</b> pH units	APHA 4500-H+ B	

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23Apr-0342	Maturation Pond 05.04.23 8.00am	Potassium (acid extractable)	15.6 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	142 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	966 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	4 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

**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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