

Cootamundra Gundagai Regional Council

Thursday, August 25, 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: 2206-0096

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For all enquiries related to this report please quote document number: 2206-0096

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		29-June-2022

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	G. Finucane	29-June-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>
22Jun-0241	P1 28.06.22 7.55am	Ammonia as N	0.6 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	6 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	88.1 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	<1 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1660 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	69.9 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	1.3 mg/L	LTM-W-022	0.1
		Oil & Grease	1 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.49 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.58 mg/L	LTM-W-030	0.01
		pH	7.0 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	7.5 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	154 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

22Jun-0242	P12 28.06.22 8.05am	Ammonia as N	<0.1 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	8 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	82.2 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	26 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1620 µS/cm	APHA 2510 B	1

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22Jun-0242	<b>P12</b> 28.06.22 8.05am	<b>Magnesium (acid extractable)</b>	<b>61.8</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>2.1</b> mg/L	LTM-W-022	0.1
		<b>Oil &amp; Grease</b>	<b>3</b> mg/L	APHA 5520 D	1
		<b>Ortho-Phosphate as P</b>	<b>0.50</b> mg/L	LTM-W-030	0.01
		<b>Phosphorus, Total</b>	<b>0.62</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.7</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>7.5</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium (acid extractable)</b>	<b>144</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Kjeldahl Nitrogen</b>	<b>&lt;2</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>&lt;2</b> mg/L	APHA 2540 D	2
22Jun-0243	<b>M1</b> 28.06.22 8.45am	<b>Ammonia as N</b>	<b>&lt;0.1</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>&lt;2</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Faecal coliforms</b>	<b>172</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>2270</b> µS/cm	APHA 2510 B	1
		<b>Nitrate as N</b>	<b>0.2</b> mg/L	LTM-W-022	0.1
		<b>Phosphorus, Total</b>	<b>0.11</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>8.0</b> pH units	APHA 4500-H+ B	
		<b>Total Kjeldahl Nitrogen</b>	<b>&lt;2</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>62</b> mg/L	APHA 2540 D	2
22Jun-0244	<b>M2</b> 28.06.22 8.25am				

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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>
22Jun-0244	<b>M2</b> 28.06.22 8.25am	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	82 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2220 µS/cm	APHA 2510 B	1
		Nitrate as N	0.1 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.04 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	5 mg/L	APHA 2540 D	2
22Jun-0245	<b>R3</b> 28.06.22 8.15am	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	194 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	2160 µS/cm	APHA 2510 B	1
		Nitrate as N	0.3 mg/L	LTM-W-022	0.1
		Phosphorus, Total	0.11 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
22Jun-0246	<b>Aeration Lagoon</b> 28.06.22 7.25am	Ammonia as N	0.1 mg/L	LTM-W-042	0.1

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Water	G. Finucane	29-June-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>
22Jun-0246	<b>Aeration Lagoon</b> 28.06.22 7.25am	<b>Biochemical Oxygen Demand</b>	<b>435</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>160</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>211</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>610000</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1840</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>60.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.5</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>146</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>0.5</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>65.8</b> mg/L	LTM-W-030	0.3
		<b>pH</b>	<b>7.8</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>10.1</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>2</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>98.4</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1190</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>145</b> mg/L	LTM-W-034	2
		<b>Total Organic Nitrogen</b>	<b>145</b> mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		<b>Total Suspended Solids</b>	<b>2460</b> mg/L	APHA 2540 D	2
22Jun-0247	<b>Clarifier</b> 28.06.22 7.30am	<b>Ammonia as N</b>	<b>0.1</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>13</b> mg/L	APHA 5210 B/4500-O G	2

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22Jun-0247	<b>Clarifier</b> 28.06.22 7.30am	<b>Calcium (acid extractable)</b>	<b>111</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>206</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>9400</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1850</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>49.9</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.8</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>2</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>0.1</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.44</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.8</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>6.0</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>2</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>109</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1200</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>5</b> mg/L	APHA 2540 D	2
22Jun-0248	<b>Maturation Pond</b> 28.06.22 7.40am	<b>Ammonia as N</b>	<b>1.4</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>111</b> mg/L	APHA 3030 E/3120 B	2

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22Jun-0248	<b>Maturation Pond</b> 28.06.22 7.40am	<b>Chloride</b>	<b>195</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>12</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>1730</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>68.1</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.8</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>3</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>1.0</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.35</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.8</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>6.9</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>155</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1130</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>3</b> mg/L	APHA 2540 D	2

Note:

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

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Signed  Michael Glazier, Laboratory Manager.

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