

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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KEMPSEY SHIRE COUNCIL  
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BATCHNUMBER: 23/0871  
No. of SAMPLES: 5  
DATE COLLECTED: 26/04/23  
DATE RECEIVED: 26/04/23  
TIME RECEIVED: 16:50  
DATE TESTING COMMENCED:  
26/04/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/0871/1	South Kempsey TP
23/0871/2	Crescent Head CW
23/0871/3	North St Final TP
23/0871/4	Hat Head C. Well
23/0871/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/0871/1	23/0871/2	23/0871/3	23/0871/4	METHOD NO
pH	pH unit	6.9	7.2	7.1	6.8	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	1,010	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	399	643	352	648	EL7B
Turbidity	NTU	-	6.1	-	0.60	APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	50	APHA 2320 B
Total Suspended Solids	mg/L	<2	10	15	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	2	6	10	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	2.43	0.25	4.99	2.20	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.40	<0.02	0.74	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.10	17.5	0.39	0.03	APHA 4500-NH3 H
Total Nitrogen	mg/L	5.02	21.0	7.88	2.80	APHA 4500-P J
Total Phosphorus	mg/L	3.90	0.52	0.29	0.16	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	125	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	46	-	APHA 10200 H



Accredited for compliance with ISO/IEC 17025 - Testing  
[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

ANALYSIS	UNITS	23/0871/1	23/0871/2	23/0871/3	23/0871/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	240	<2	260	0	ELM3

ANALYSIS	UNITS	23/0871/5				METHODNO
pH	pH unit	-				APHA 4500-H+ B
Conductivity	µS/cm	-				APHA 2510 B
Total Dissolved Solids	mg/L	-				EL7B
Turbidity	NTU	-				APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-				APHA 2320 B
Total Suspended Solids	mg/L	-				APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-				APHA 5210 B
Nitrate Nitrogen	mg/L	-				APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-				APHA 4500-NO 2
Ammonia Nitrogen	mg/L	-				APHA 4500-NH3 H
Total Nitrogen	mg/L	-				APHA 4500-P J
Total Phosphorus	mg/L	-				APHA 4500-P J
Potassium	mg/L	-				EL9A
Chloride	mg/L	-				EL10
Oil & Grease	mg/L	-				EL23A
Chlorophyll-a	µg/L	-				APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	40				ELM3

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 23rd Edition, 2017, APHA. Raw data sheets stating analysis dates are available upon request.

Tests marked with '#' are not covered by NATA Accreditation.

Note: Microbiological results are presumptive.

Measurement Uncertainty is available upon request.

Thermotolerant Coliforms are equivalent to Faecal Coliforms.

Report Date: 5/05/23



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Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

The results of the tests, calibrations and/or measurements included in this document are traceable to Australia