

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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KEMPSEY SHIRE COUNCIL  
PETER BRADFORD  
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WEST KEMPSEY NSW 2440

BATCHNUMBER: 22/2441  
No. of SAMPLES: 5  
DATE COLLECTED: 23/11/22  
DATE RECEIVED: 23/11/22  
TIME RECEIVED: 17:08  
DATE TESTING COMMENCED:  
23/11/22

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/2441/1	South Kempsey TP
22/2441/2	Crescent Head CW
22/2441/3	North St Final TP
22/2441/4	Hat Head C. Well
22/2441/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/2441/1	22/2441/2	22/2441/3	22/2441/4	METHOD NO
pH	pH unit	7.4	7.7	7.6	7.5	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	887	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	401	568	323	564	EL7B
Turbidity	NTU	-	0.90	-	0.70	APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	114	APHA 2320 B
Total Suspended Solids	mg/L	8	<2	18	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	6	<2	12	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	<0.02	5.50	1.27	1.10	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	<0.02	0.16	0.26	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.01	0.18	0.67	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.63	6.68	3.90	1.74	APHA 4500-P J
Total Phosphorus	mg/L	4.27	0.10	0.38	0.04	APHA 4500-P J
Potassium	mg/L	-	-	-	24	EL9A
Chloride	mg/L	-	-	-	118	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	56	-	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	22/2441/1	22/2441/2	22/2441/3	22/2441/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	160	5	90	1	ELM3

ANALYSIS	UNITS	22/2441/5				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	30				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: 1/12/22



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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