

# COFFS HARBOUR LABORATORY

## Environmental Analysis

Page 1 of 2



KEMPSEY SHIRE COUNCIL  
GREG HICKSON  
P.O. BOX 3078  
WEST KEMPSEY NSW 2440

BATCHNUMBER: 23/1089  
No. of SAMPLES: 5  
DATE COLLECTED: 24/05/23  
DATE RECEIVED: 24/05/23  
TIME RECEIVED: 16:30  
DATE TESTING COMMENCED:  
24/05/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/1089/1	South Kempsey TP
23/1089/2	Crescent Head CW
23/1089/3	North St Final TP
23/1089/4	Hat Head C. Well
23/1089/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/1089/1	23/1089/2	23/1089/3	23/1089/4	METHOD NO
pH	pH unit	7.1	7.0	8.8	7.0	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	938	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	436	600	428	602	EL7B
Turbidity	NTU	-	1.8	-	1.3	APHA 2130 B
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	57	APHA 2320 B
Total Suspended Solids	mg/L	<2	5	32	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	2	13	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	4.50	9.24	5.46	1.47	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.21	0.10	1.34	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.48	0.23	0.11	0.13	APHA 4500-NH3 H
Total Nitrogen	mg/L	7.53	11.4	10.3	2.51	APHA 4500-P J
Total Phosphorus	mg/L	3.78	0.23	0.27	0.11	APHA 4500-P J
Potassium	mg/L	-	-	-	20	EL9A
Chloride	mg/L	-	-	-	122	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	209	-	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	23/1089/1	23/1089/2	23/1089/3	23/1089/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	140	1	110	0	ELM3

ANALYSIS	UNITS	23/1089/5				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	16,000				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: 5/06/23



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

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