

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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KEMPSEY SHIRE COUNCIL  
BLAKE GIDDY  
P.O. BOX 3078  
WEST KEMPSEY NSW 2440

BATCHNUMBER: 23/1716  
No. of SAMPLES: 6  
DATE COLLECTED: 16/08/23  
DATE RECEIVED: 16/08/23  
TIME RECEIVED: 16:40  
DATE TESTING COMMENCED:  
16/08/23

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/1716/1	South Kempsey TP
23/1716/2	Crescent Head CW
23/1716/3	North St Final TP
23/1716/4	Hat Head C. Well
23/1716/5	South Kempsey STP Head Wall Day Pond
23/1716/6	Gladstone STP

ANALYSIS	UNITS	23/1716/1	23/1716/2	23/1716/3	23/1716/4	METHOD NO
pH	pH unit	7.0	7.3	7.6	7.2	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	1,090	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	454	700	532	710	EL7B
Turbidity	NTU	-	0.70	-	2.8	APHA 2130 B
Transmittance#	%	-	-	-	-	EL**32
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	129	APHA 2320 B
Total Suspended Solids	mg/L	2	<2	11	6	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	13	2	24	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	3.43	0.70	4.95	0.17	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.30	0.17	0.54	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.98	0.18	17.8	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	8.25	2.16	28.0	0.92	APHA 4500-P J
Total Phosphorus	mg/L	4.56	0.14	0.24	0.06	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	126	EL10



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	23/1716/1	23/1716/2	23/1716/3	23/1716/4	METHODNO
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	7	-	APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	100	0	30	0	ELM3

ANALYSIS	UNITS	23/1716/5	23/1716/6			METHODNO
pH	pH unit	-	7.8			APHA 4500-H+ B
Conductivity	µS/cm	-	-			APHA 2510 B
Total Dissolved Solids	mg/L	-	-			EL7B
Turbidity	NTU	-	-			APHA 2130 B
Transmittance#	%	-	59.3			EL**32
Alkalinity	mg CaCO <sub>3</sub> /L	-	-			APHA 2320 B
Total Suspended Solids	mg/L	-	10			APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	-	4			APHA 5210 B
Nitrate Nitrogen	mg/L	-	-			APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-			APHA 4500-NO 2
Ammonia Nitrogen	mg/L	-	1.44			APHA 4500-NH3 H
Total Nitrogen	mg/L	-	3.33			APHA 4500-P J
Total Phosphorus	mg/L	-	7.00			APHA 4500-P J
Potassium	mg/L	-	-			EL9A
Chloride	mg/L	-	-			EL10
Oil & Grease	mg/L	-	<2			EL23A
Chlorophyll-a	µg/L	-	2			APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	190	1,200			ELM3

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2022, 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.

Report Date: 24/08/23



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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