

# COFFS HARBOUR LABORATORY

## Environmental Analysis

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

BATCHNUMBER: 25/0248  
No. of SAMPLES: 5  
DATE COLLECTED: 29/01/25  
DATE RECEIVED: 29/01/25  
TIME RECEIVED: 16:50  
DATE TESTING COMMENCED:  
29/01/25

### REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
25/0248/1	South Kempsey TP
25/0248/2	Crescent Head CW
25/0248/3	West Kempsey TP
25/0248/4	Hat Head C. Well
25/0248/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	25/0248/1	25/0248/2	25/0248/3	25/0248/4	METHOD NO
pH	pH unit	6.9	6.7	8.9	7.1	APHA 4500-H+ B
Conductivity	$\mu\text{S/cm}$	-	872	-	913	APHA 2510 B
Total Dissolved Solids	mg/L	-	-	-	585	EL7B
Turbidity	NTU	-	0.65	-	0.50	APHA 2130 B
Transmittance#	%	-	-	-	-	EL**32
Alkalinity	mg CaCO <sub>3</sub> /L	-	-	-	50	APHA 2320 B
Total Suspended Solids	mg/L	2	<2	50	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	6	<2	15	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	-	13.6	0.18	1.45	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-	0.25	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.72	0.10	0.43	0.45	APHA 4500-NH3 H
Total Nitrogen	mg/L	3.80	14.4	3.51	2.67	APHA 4500-P J
Total Phosphorus	mg/L	5.19	0.41	0.37	0.05	APHA 4500-P J
Potassium	mg/L	-	-	-	23	EL9A
Chloride	mg/L	-	-	-	137	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A



Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Number: 12359

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

ANALYSIS	UNITS	25/0248/1	25/0248/2	25/0248/3	25/0248/4	METHODNO
Chlorophyll-a	µg/L	-	-	111	-	APHA 10200H
Thermotolerant Coliforms	cfu/100mL	2,650	0	50	0	ELM3

ANALYSIS	UNITS	25/0248/5				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
Transmittance#	%	-				EL**32
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-NO3I
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	2,250				ELM3

### Comments

Sample(s) collected by client and analysed as received in accordance with "Standard Methods for the Examination of Water & Wastewater", 24th Edition, 2023, APHA. Raw data sheets stating analysis dates are available upon request.

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

Measurement Uncertainty is available upon request.

Report Date: 6/02/25



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Accreditation Number: 12359

Approved:

Shane Ewart  
Technical Supervisor  
Microbiology and Chemistry

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