

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
PETER BRADFORD
P.O. BOX 3078
WEST KEMPSEY NSW 2440

BATCHNUMBER: 22/1767
No. of SAMPLES: 5
DATE COLLECTED: 31/08/22
DATE RECEIVED: 31/08/22
TIME RECEIVED: 16:00
DATE TESTING COMMENCED:
31/08/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1767/1	South Kempsey TP
22/1767/2	Crescent Head CW
22/1767/3	North St Final TP
22/1767/4	Hat Head C. Well
22/1767/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/1767/1	22/1767/2	22/1767/3	22/1767/4	METHOD NO
pH	pH unit	7.2	7.0	7.4	7.8	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	771	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	434	493	381	710	EL7B
Turbidity	NTU	-	1.3	-	0.35	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	231	APHA 2320 B
Total Suspended Solids	mg/L	<2	12	10	22	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	<2	4	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	0.56	0.25	4.30	3.15	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.10	0.12	0.23	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.02	0.11	5.82	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.70	1.46	11.7	3.52	APHA 4500-P J
Total Phosphorus	mg/L	4.48	0.15	0.44	0.05	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	110	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	<1	-	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	22/1767/1	22/1767/2	22/1767/3	22/1767/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	195	14	<5	0	ELM3

ANALYSIS	UNITS	22/1767/5				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 ₃ /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	<2				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: 12/09/22



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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