

COFFS HARBOUR LABORATORY

Environmental Analysis

Page 1 of 2



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

BATCHNUMBER: 22/2198
No. of SAMPLES: 5
DATE COLLECTED: 26/10/22
DATE RECEIVED: 26/10/22
TIME RECEIVED: 16:48
DATE TESTING COMMENCED:
26/10/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/2198/1	South Kempsey TP
22/2198/2	Crescent Head CW
22/2198/3	North St Final TP
22/2198/4	Hat Head C. Well
22/2198/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	22/2198/1	22/2198/2	22/2198/3	22/2198/4	METHOD NO
pH	pH unit	6.7	7.0	7.1	7.5	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	561	-	-	APHA 2510 B
Total Dissolved Solids	mg/L	157	359	251	552	EL7B
Turbidity	NTU	-	4.6	-	0.65	APHA 2130 B
Alkalinity	mg CaCO ₃ /L	-	-	-	126	APHA 2320 B
Total Suspended Solids	mg/L	19	10	25	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	3	15	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	1.03	0.15	3.32	0.31	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	0.14	<0.02	0.51	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.82	1.10	3.61	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	3.57	2.06	8.91	0.76	APHA 4500-P J
Total Phosphorus	mg/L	1.07	0.22	0.44	0.05	APHA 4500-P J
Potassium	mg/L	-	-	-	19	EL9A
Chloride	mg/L	-	-	-	112	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	$\mu\text{g}/\text{L}$	-	-	207	-	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	22/2198/1	22/2198/2	22/2198/3	22/2198/4	METHODNO
Thermotolerant Coliforms	cfu/100mL	4,900	0	350	2	ELM3

ANALYSIS	UNITS	22/2198/5				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	14,200				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: 3/11/22



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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