

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
BARRY YOUNG
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BATCHNUMBER: 22/1156
No. of SAMPLES: 12
DATE COLLECTED: 08/06/22
DATE RECEIVED: 08/06/22
TIME RECEIVED: 16:50
DATE TESTING COMMENCED:
08/06/22

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
22/1156/1	South Kempsey TP
22/1156/2	Crescent Head CW
22/1156/3	Gladstone TP
22/1156/4	Frederickton TP
22/1156/5	South West Rocks CW
22/1156/6	North St Final TP
22/1156/7	Hat Head C Well
22/1156/8	South Kempsey STP Head Wall Day Pond
22/1156/9	Upstream Gladstone TP
22/1156/10	Downstream Gladstone TP
22/1156/11	Upstream Frederickton TP
22/1156/12	Downstream Frederickton TP

ANALYSIS	UNITS	22/1156/1	22/1156/2	22/1156/3	22/1156/4	METHOD NO
pH	pH unit	7.0	7.3	7.9	7.3	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	840	-	-	APHA 2510 B
Turbidity	NTU	-	0.95	-	-	APHA 2130 B
Transmittance	%	-	-	57.2	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
Alkalinity	mg CaCO ₃ /L	-	-	-	-	APHA 2320 B
Total Suspended Solids	mg/L	3	3	41	7	APHA 2540 D
Biochem Oxygen Demand (BOD ₅)	mg/L	<2	<2	<2	<2	APHA 5210 B



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	22/1156/1	22/1156/2	22/1156/3	22/1156/4	METHODNO
Nitrate Nitrogen	mg/L	-	4.62	-	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	-	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	0.83	0.02	0.02	0.57	APHA 4500-NH3 H
Total Nitrogen	mg/L	3.18	6.64	1.97	4.85	APHA 4500-P J
Total Phosphorus	mg/L	2.38	0.07	1.71	2.86	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A
Chlorophyll-a	µg/L	-	-	59	4	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	840	0	480	130	ELM 3

ANALYSIS	UNITS	22/1156/5	22/1156/6	22/1156/7	22/1156/8	METHODNO
pH	pH unit	7.1	7.1	7.4	-	APHA 4500-H+ B
Conductivity	µS/cm	540	-	1,080	-	APHA 2510 B
Turbidity	NTU	1.4	-	0.55	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	690	-	EL7B
Alkalinity	mg CaCO ₃ /L	65	-	164	-	APHA 2320 B
Total Suspended Solids	mg/L	5	4	2	-	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	<2	2	<2	-	APHA 5210 B
Nitrate Nitrogen	mg/L	-	2.98	1.10	-	APHA 4500-NO3I
Nitrite Nitrogen	mg/L	-	0.43	-	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	<0.02	4.10	<0.02	-	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.80	9.75	1.75	-	APHA 4500-P J
Total Phosphorus	mg/L	0.31	0.33	0.06	-	APHA 4500-P J
Oil & Grease	mg/L	<2	<2	<2	-	EL23A
Chlorophyll-a	µg/L	-	2	-	-	APHA 10200 H
Potassium	mg/L	15	-	21	-	EL9A
Chloride	mg/L	81	-	119	-	EL10
Arsenic	mg/L	<0.012	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	0	70	6	1,400	ELM 3



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ANALYSIS	UNITS	22/1156/9	22/1156/10	22/1156/11	22/1156/12	METHODNO
pH	pH unit	-	-	-	-	APHA 4500-H+ B
Conductivity	µS/cm	-	-	-	-	APHA 2510 B
Turbidity	NTU	-	-	-	-	APHA 2130 B
Transmittance	%	-	-	-	-	APHA 5910
Total Dissolved Solids	mg/L	-	-	-	-	EL7B
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
Oil & Grease	mg/L	-	-	-	-	EL23A
Chlorophyll-a	µg/L	-	-	-	-	APHA 10200 H
Potassium	mg/L	-	-	-	-	EL9A
Chloride	mg/L	-	-	-	-	EL10
Arsenic	mg/L	-	-	-	-	EL9A
Faecal Coliforms	cfu/100mL	75	40	30	10,500	ELM 3

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 membrane presumptive.

Measurement Uncertainty is available upon request.

Report Date: 16/06/22



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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