

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 23/2559
No. of SAMPLES: 5
DATE COLLECTED: 22/11/23
DATE RECEIVED: 22/11/23
TIME RECEIVED: 16:35
DATE TESTING COMMENCED:
22/11/23

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
23/2559/1	South Kempsey TP
23/2559/2	Crescent Head CW
23/2559/3	West Kempsey TP
23/2559/4	Hat Head C. Well
23/2559/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	23/2559/1	23/2559/2	23/2559/3	23/2559/4	METHOD NO
pH	pH unit	7.0	7.4	9.5	7.3	APHA 4500-H+ B
Conductivity	µS/cm	-	1,360	-	994	APHA 2510 B
Total Dissolved Solids	mg/L	-	-	-	636	EL7B
Turbidity	NTU	-	1.6	-	0.70	APHA 2130 B
Transmittance#	%	-	-	-	-	EL**32
Alkalinity	mg CaCO ₃ /L	-	-	-	100	APHA 2320 B
Total Suspended Solids	mg/L	3	2	66	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	3	<2	7	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	-	0.06	1.20	3.32	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-	0.25	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	1.42	1.68	<0.02	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	2.76	2.74	4.01	3.61	APHA 4500-P J
Total Phosphorus	mg/L	4.96	0.15	0.46	0.09	APHA 4500-P J
Potassium	mg/L	-	-	-	21	EL9A
Chloride	mg/L	-	-	-	129	EL10
Oil & Grease	mg/L	<2	<2	<2	<2	EL23A



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	23/2559/1	23/2559/2	23/2559/3	23/2559/4	METHODNO
Chlorophyll-a	µg/L	-	-	180	-	APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	6,800	0	10	2	ELM3

ANALYSIS	UNITS	23/2559/5				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 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	8,400				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: 30/11/23



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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