

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 24/0295
No. of SAMPLES: 5
DATE COLLECTED: 31/01/24
DATE RECEIVED: 31/01/24
TIME RECEIVED: 16:30
DATE TESTING COMMENCED:
31/01/24

REPORT OF ANALYSIS

SAMPLE REFERENCE	SAMPLE DESCRIPTION
24/0295/1	South Kempsey TP
24/0295/2	Crescent Head CW
24/0295/3	West Kempsey TP
24/0295/4	Hat Head C. Well
24/0295/5	South Kempsey STP Head Wall Day Pond

ANALYSIS	UNITS	24/0295/1	24/0295/2	24/0295/3	24/0295/4	METHOD NO
pH	pH unit	6.8	7.3	8.5	7.1	APHA 4500-H+ B
Conductivity	$\mu\text{S}/\text{cm}$	-	1,170	-	906	APHA 2510 B
Total Dissolved Solids	mg/L	-	-	-	580	EL7B
Turbidity	NTU	-	0.80	-	0.80	APHA 2130 B
Transmittance#	%	-	-	-	-	EL**32
Alkalinity	mg CaCO ₃ /L	-	-	-	45	APHA 2320 B
Total Suspended Solids	mg/L	4	<2	24	<2	APHA 2540 D
Biochem Oxygen Demand (BOD5)	mg/L	4	<2	11	<2	APHA 5210 B
Nitrate Nitrogen	mg/L	-	4.38	1.44	1.14	APHA 4500-NO3 I
Nitrite Nitrogen	mg/L	-	-	0.90	-	APHA 4500-NO 2
Ammonia Nitrogen	mg/L	2.99	0.15	0.24	<0.02	APHA 4500-NH3 H
Total Nitrogen	mg/L	6.68	6.55	5.22	2.07	APHA 4500-P J
Total Phosphorus	mg/L	5.71	0.11	0.31	0.06	APHA 4500-P J
Potassium	mg/L	-	-	-	22	EL9A
Chloride	mg/L	-	-	-	140	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	24/0295/1	24/0295/2	24/0295/3	24/0295/4	METHODNO
Chlorophyll-a	µg/L	-	-	55	-	APHA 10200 H
Thermotolerant Coliforms	cfu/100mL	2,600	8,500	260	2	ELM 3

ANALYSIS	UNITS	24/0295/5				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	6,200				ELM 3

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: 8/02/24



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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