

COFFS HARBOUR LABORATORY

Environmental Analysis

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

BATCHNUMBER: 24/0547
No. of SAMPLES: 5
DATE COLLECTED: 28/02/24
DATE RECEIVED: 28/02/24
TIME RECEIVED: 16:47
DATE TESTING COMMENCED:
28/02/24

REPORT OF ANALYSIS

| SAMPLE REFERENCE | SAMPLE DESCRIPTION |
|------------------|--------------------------------------|
| 24/0547/1 | South Kempsey TP |
| 24/0547/2 | Crescent Head CW |
| 24/0547/3 | West Kempsey TP |
| 24/0547/4 | Hat Head C. Well |
| 24/0547/5 | South Kempsey STP Head Wall Day Pond |

| ANALYSIS | UNITS | 24/0547/1 | 24/0547/2 | 24/0547/3 | 24/0547/4 | METHOD NO |
|------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------------|
| pH | pH unit | 6.8 | 7.3 | 7.9 | 6.9 | APHA 4500-H+ B |
| Conductivity | µS/cm | - | 1,160 | - | 855 | APHA 2510 B |
| Total Dissolved Solids | mg/L | - | - | - | 547 | EL7B |
| Turbidity | NTU | - | 4.2 | - | 0.75 | APHA 2130 B |
| Transmittance# | % | - | - | - | - | EL**32 |
| Alkalinity | mg CaCO ₃ /L | - | - | - | 35 | APHA 2320 B |
| Total Suspended Solids | mg/L | 3 | 13 | 12 | <2 | APHA 2540 D |
| Biochem Oxygen Demand (BOD5) | mg/L | 5 | 3 | 4 | <2 | APHA 5210 B |
| Nitrate Nitrogen | mg/L | - | 7.22 | 5.89 | 0.95 | APHA 4500-NO3 I |
| Nitrite Nitrogen | mg/L | - | - | 1.10 | - | APHA 4500-NO 2 |
| Ammonia Nitrogen | mg/L | 1.99 | 0.17 | 0.31 | 0.03 | APHA 4500-NH3 H |
| Total Nitrogen | mg/L | 5.64 | 8.67 | 8.59 | 1.58 | APHA 4500-P J |
| Total Phosphorus | mg/L | 1.88 | 0.34 | 0.14 | 0.06 | APHA 4500-P J |
| Potassium | mg/L | - | - | - | 20 | EL9A |
| Chloride | mg/L | - | - | - | 139 | EL10 |
| Oil & Grease | mg/L | <2 | <2 | <2 | <2 | EL23A |



Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation Number: 12359

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian and International standards.

| ANALYSIS | UNITS | 24/0547/1 | 24/0547/2 | 24/0547/3 | 24/0547/4 | METHODNO |
|--------------------------|-----------|-----------|-----------|-----------|-----------|--------------|
| Chlorophyll-a | µg/L | - | - | 25 | - | APHA 10200 H |
| Thermotolerant Coliforms | cfu/100mL | 700 | 6 | 170 | 15 | ELM 3 |

| ANALYSIS | UNITS | 24/0547/5 | | | | 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 | 14,800 | | | | 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: 8/03/24



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Accreditation Number: 12359

Approved:

Michael Nolan
Technical Officer

The results of the tests, calibrations and/or measurements included in this document are

standards.