

COFFS HARBOUR LABORATORY

Environmental Analysis

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KEMPSEY SHIRE COUNCIL
GREG HICKSON
P.O. BOX 3078
WEST KEMPSEY NSW 2440

BATCH NUMBER: 23/0666
No. of SAMPLES: 5
DATE COLLECTED: 29/03/23
DATE RECEIVED: 29/03/23
TIME RECEIVED: 16:05
DATE TESTING COMMENCED:
29/03/23

REPORT OF ANALYSIS

| SAMPLE REFERENCE | SAMPLE DESCRIPTION |
|------------------|--------------------------------------|
| 23/0666/1 | South Kempsey TP |
| 23/0666/2 | Crescent Head CW |
| 23/0666/3 | North St Final TP |
| 23/0666/4 | Hat Head C. Well |
| 23/0666/5 | South Kempsey STP Head Wall Day Pond |

| ANALYSIS | UNITS | 23/0666/1 | 23/0666/2 | 23/0666/3 | 23/0666/4 | METHOD NO |
|------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------------|
| pH | pH unit | 7.0 | 7.1 | 6.8 | 7.2 | APHA 4500-H+ B |
| Conductivity | µS/cm | - | 710 | - | - | APHA 2510 B |
| Total Dissolved Solids | mg/L | 331 | 455 | 313 | 625 | EL7B |
| Turbidity | NTU | - | 1.9 | - | 0.75 | APHA 2130 B |
| Alkalinity | mg CaCO ₃ /L | - | - | - | 76 | APHA 2320 B |
| Total Suspended Solids | mg/L | 3 | <2 | 22 | <2 | APHA 2540 D |
| Biochem Oxygen Demand (BOD5) | mg/L | 3 | 4 | 7 | <2 | APHA 5210 B |
| Nitrate Nitrogen | mg/L | 2.02 | 0.25 | 3.74 | 0.42 | APHA 4500-NO3 I |
| Nitrite Nitrogen | mg/L | 0.54 | 0.02 | 0.76 | - | APHA 4500-NO 2 |
| Ammonia Nitrogen | mg/L | 4.55 | 0.35 | 1.95 | 0.04 | APHA 4500-NH3 H |
| Total Nitrogen | mg/L | 7.36 | 1.59 | 6.96 | 0.92 | APHA 4500-P J |
| Total Phosphorus | mg/L | 3.34 | 0.19 | 0.28 | 0.06 | APHA 4500-P J |
| Potassium | mg/L | - | - | - | 18 | EL9A |
| Chloride | mg/L | - | - | - | 120 | EL10 |
| Oil & Grease | mg/L | <2 | <2 | <2 | <2 | EL23A |
| Chlorophyll-a | µg/L | - | - | 24 | - | 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 | 23/0666/1 | 23/0666/2 | 23/0666/3 | 23/0666/4 | METHODNO |
|--------------------------|-----------|-----------|-----------|-----------|-----------|----------|
| Thermotolerant Coliforms | cfu/100mL | 1,000 | 10 | 1,650 | <2 | ELM3 |

| ANALYSIS | UNITS | 23/0666/5 | | | | 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 | 228,000 | | | | 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: 17/04/23



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[Accreditation Numbers: 12359 (Chemical) & 14565 (Microbiological)]

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