

## Moruya Sewage Treatment Plant - Monthly Result Summary - March 2022



Anniversary Date: 1-Apr-21  
Published Date: 23-May-22

Licensee: Eurobodalla Shire Council  
EPL No.: 1614  
Premises: Moruya Sewage Treatment Plant  
Address: Queen Street, Moruya, NSW 2537

Licence Period: 1-Apr-21 to 31-Mar-22

EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206032&SYSUID=1&LICID=1614>

POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: **Mar-22**

| Licence Point 6 (Discharge to Utilisation Area) & 11 (Discharge to Waters) - Concentration Limits |                 |                                   |                                    |
|---|-----------------|-----------------------------------|------------------------------------|
| Parameters  | Unit of Measure | 90 percentile concentration limit | 100 percentile concentration limit |
| Biological Oxygen Demand  | (mg/L)          | 10                                | 15                                 |
| Oil and Grease  | (mg/L)          | 5                                 | 10                                 |
| pH  | (pH Units)      | -                                 | 6.5-8.5                            |
| Total Suspended Solids  | (mg/L)          | 15                                | 20                                 |
| Chlorophyll a   | (mg/m3)         |                                   |                                    |
| Faecal Coliforms  | (CFU/100mL)     | 200                               | 600                                |
| Total Nitrogen  | (mg/L)          | 10                                | 15                                 |
| Total Phosphorus  | (mg/L)          | 1                                 | 2                                  |
| Ammonia   | (mg/L)          | 2                                 | 5                                  |

See Note 1

Note 1: A 100 Percentile Concentration Limit of "10 mg/L and no visible oil and grease" applies for Point 1.

Note 2: The monitoring at Point 3, required by Condition M2.1, is conducted by the licensee to determine compliance with limits specified for discharges to Points 6 and 11 as described in Condition L3.

| Licence Point 3 - Effluent Quality Monitoring (Monthly Results) |                                 |                       |                     |                               |                       |                              |                          |                          |                     |               |
|---|---------------------------------|-----------------------|---------------------|-------------------------------|-----------------------|------------------------------|--------------------------|--------------------------|---------------------|---------------|
| Sample Frequency Sampling Method                                | Monthly Composite Sample        | Monthly Grab Sample   | Monthly Grab Sample | Monthly Composite Sample      | Monthly Grab Sample   | Monthly Grab Sample          | Monthly Composite Sample | Monthly Composite Sample | Monthly Grab Sample |               |
| Sampled Date  | Biological Oxygen Demand (mg/L) | Oil and Grease (mg/L) | pH (pH Units)       | Total Suspended Solids (mg/L) | Chlorophyll a (mg/m3) | Faecal Coliforms (CFU/100mL) | Total Nitrogen (mg/L)    | Total Phosphorus (mg/L)  | Ammonia (mg/L)      | Obtained Date |
| 22-Mar-22   | <2                              | <5                    | 7.50                | 7.00                          | 72.10                 | 3500                         | 5.96                     | 0.26                     | 0.01                | 8-Apr-22      |
| 100 Percentile Exceedance?                                      | NO                              | NO                    | NO                  | NO                            | NO                    | YES                          | NO                       | NO                       | NO                  |               |

| Licence Point 3 - Effluent Quality Monitoring (Year To Date Results) |                                 |                       |               |                               |                       |                              |                       |                         |                |
|--|---------------------------------|-----------------------|---------------|-------------------------------|-----------------------|------------------------------|-----------------------|-------------------------|----------------|
| Year to Date   | Biological Oxygen Demand (mg/L) | Oil and Grease (mg/L) | pH (pH Units) | Total Suspended Solids (mg/L) | Chlorophyll a (mg/m3) | Faecal Coliforms (CFU/100mL) | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) | Ammonia (mg/L) |
| Samples  | 13                              | 13                    | 13            | 13                            | 13                    | 13                           | 13                    | 13                      | 13             |
| Min  | <2                              | <5                    | 7.20          | <2                            | 1.00                  | 350                          | 4.33                  | 0.110                   | 0.01           |
| Mean   | 2.08                            | 2.50                  | 7.36          | 4.77                          | 10.97                 | 9452                         | 5.58                  | 0.202                   | 0.11           |
| Median (50th %ile)   | 2.00                            | 2.50                  | 7.30          | 5.00                          | 2.70                  | 3500                         | 5.39                  | 0.205                   | 0.04           |
| 90th %ile  | 3.00                            | 2.50                  | 7.50          | 7.00                          | 15.20                 | 37520                        | 6.23                  | 0.263                   | 0.18           |
| Max (100th %ile)   | 6.00                            | <5                    | 7.60          | 11.00                         | 72.10                 | 48000                        | 7.55                  | 0.296                   | 0.76           |

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| Licence Point 2 - Influent Volume Monitoring |                       |                         |                     |
|--|-----------------------|-------------------------|---------------------|
| Sample Frequency                             | Daily (Continuous)    | Maximum Daily flow (kL) | 14000               |
| Sampling Method                              | Ultrasonic Flow Meter |                         |                     |
| Sample Date                                  | Rainfall (mm)         | Plant Inflow (kL)       | Exceedance (YES/NO) |
| 1-Mar-22                                     | 10                    | 1610.0                  | NO                  |
| 2-Mar-22                                     | 14.8                  | 2200.0                  | NO                  |
| 3-Mar-22                                     | 63.2                  | 5300.0                  | NO                  |
| 4-Mar-22                                     | 19.4                  | 5040.0                  | NO                  |
| 5-Mar-22                                     | 1.8                   | 4560.0                  | NO                  |
| 6-Mar-22                                     | 49.2                  | 3840.0                  | NO                  |
| 7-Mar-22                                     | 20                    | 5280.0                  | NO                  |
| 8-Mar-22                                     | 38.6                  | 5670.0                  | NO                  |
| 9-Mar-22                                     | 48.2                  | 5910.0                  | NO                  |
| 10-Mar-22                                    | 1.6                   | 4550.0                  | NO                  |
| 11-Mar-22                                    | 0                     | 2440.0                  | NO                  |
| 12-Mar-22                                    | 0                     | 1830.0                  | NO                  |
| 13-Mar-22                                    | 1                     | 1520.0                  | NO                  |
| 14-Mar-22                                    | 0.2                   | 1340.0                  | NO                  |
| 15-Mar-22                                    | 3.6                   | 1180.0                  | NO                  |
| 16-Mar-22                                    | 6                     | 1880.0                  | NO                  |
| 17-Mar-22                                    | 0.8                   | 1920.0                  | NO                  |
| 18-Mar-22                                    | 0.4                   | 1860.0                  | NO                  |
| 19-Mar-22                                    | 0                     | 1490.0                  | NO                  |
| 20-Mar-22                                    | 5.6                   | 1120.0                  | NO                  |
| 21-Mar-22                                    | 0                     | 950.0                   | NO                  |
| 22-Mar-22                                    | 0                     | 880.0                   | NO                  |
| 23-Mar-22                                    | 0                     | 940.0                   | NO                  |
| 24-Mar-22                                    | 0.4                   | 820.0                   | NO                  |
| 25-Mar-22                                    | 0                     | 840.0                   | NO                  |
| 26-Mar-22                                    | 0.4                   | 810.0                   | NO                  |
| 27-Mar-22                                    | 2                     | 780.0                   | NO                  |
| 28-Mar-22                                    | 5.6                   | 870.0                   | NO                  |
| 29-Mar-22                                    | 0.4                   | 830.0                   | NO                  |
| 30-Mar-22                                    | 0                     | 770.0                   | NO                  |
| 31-Mar-22                                    | 1.4                   | 1040.0                  | NO                  |
| Monthly Total                                | 294.6                 | 70070.0                 |                     |
| Monthly Minimum                              | 0                     | 770                     |                     |
| Monthly Mean                                 | 9.50                  | 2260.32                 |                     |
| Monthly Maximum                              | 63.2                  | 5910                    |                     |
| Year to Date Total                           | 1401.3                | 384378.0                |                     |
| Year to Date Minimum                         | 0.0                   | 470.0                   |                     |
| Year to Date Mean                            | 3.84                  | 1053.09                 |                     |
| Year to Date Maximum                         | 63.2                  | 5910.0                  |                     |

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### Licence Point 7 - Ambient Water Monitoring (Monthly Result)

| Frequency<br>Sampling Method | Monthly<br>Grab Sample   | Monthly<br>Grab Sample     |               |
|------------------------------|--------------------------|----------------------------|---------------|
| Sampled Date                 | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) | Obtained Date |
| 22-Mar-22                    | 1.06                     | 0.081                      | 8-Apr-22      |

### Licence Point 8 - Ambient Water Monitoring (Monthly Result)

| Frequency<br>Sampling Method | Monthly<br>Grab Sample   | Monthly<br>Grab Sample     |               |
|------------------------------|--------------------------|----------------------------|---------------|
| Sampled Date                 | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) | Obtained Date |
| 22-Mar-22                    | 2.03                     | 0.128                      | 8-Apr-22      |

### Licence Point 7 - Ambient Water Monitoring (Year to Date Results)

| Year to Date       | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) |
|--------------------|--------------------------|----------------------------|
| Samples            | 13                       | 13                         |
| Min                | 0.77                     | 0.028                      |
| Mean               | 1.40                     | 0.082                      |
| Median (50th %ile) | 1.15                     | 0.065                      |
| 90th %ile          | 2.11                     | 0.164                      |
| Max (100th %ile)   | 3.43                     | 0.183                      |

### Licence Point 8 - Ambient Water Monitoring (Year to Date Results)

| Year to Date       | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) |
|--------------------|--------------------------|----------------------------|
| Samples            | 13                       | 13                         |
| Min                | 0.54                     | 0.019                      |
| Mean               | 1.85                     | 0.089                      |
| Median (50th %ile) | 1.85                     | 0.082                      |
| 90th %ile          | 2.59                     | 0.129                      |
| Max (100th %ile)   | 3.79                     | 0.317                      |

### Licence Point 9 - Ambient Water Monitoring (Monthly Result)

| Frequency<br>Sampling Method | Monthly<br>Grab Sample   |                            |               |
|------------------------------|--------------------------|----------------------------|---------------|
| Sampled Date                 | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) | Obtained Date |
| 22-Mar-22                    | 0.4                      | 0.024                      | 8-Apr-22      |

### Licence Point 10 - Ambient Water Monitoring (Monthly Result)

| Frequency<br>Sampling Method | Monthly<br>Grab Sample   |                            |               |
|------------------------------|--------------------------|----------------------------|---------------|
| Sampled Date                 | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) | Obtained Date |
| 22-Mar-22                    | 0.38                     | 0.018                      | 8-Apr-22      |

### Licence Point 9 - Ambient Water Monitoring (Year To Date Results)

| Year to Date       | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) |
|--------------------|--------------------------|----------------------------|
| Samples            | 13                       | 13                         |
| Min                | 0.17                     | 0.004                      |
| Mean               | 0.34                     | 0.012                      |
| Median (50th %ile) | 0.26                     | 0.008                      |
| 90th %ile          | 0.59                     | 0.022                      |
| Max (100th %ile)   | 0.68                     | 0.036                      |

### Licence Point 10 - Ambient Water Monitoring (Year To Date Results)

| Year to Date       | Total Nitrogen<br>(mg/L) | Total Phosphorus<br>(mg/L) |
|--------------------|--------------------------|----------------------------|
| Samples            | 13                       | 13                         |
| Min                | 0.16                     | 0.006                      |
| Mean               | 0.36                     | 0.017                      |
| Median (50th %ile) | 0.25                     | 0.012                      |
| 90th %ile          | 0.57                     | 0.026                      |
| Max (100th %ile)   | 0.96                     | 0.064                      |

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### Monthly Exceedance Report

| Date      | Exceedance Type     | Parameter        | Description / Action   |
|-----------|---------------------|------------------|--|
| 22-Mar-22 | Concentration Limit | Faecal Coliforms | Faecal Coliform result (3'500 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |

### EPA Licence Point Map

