

## Moruya Sewage Treatment Plant - Monthly Result Summary - November 2021



Anniversary Date: 1-Apr-21  
Published Date: 10-Dec-21

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: **Nov-21**

| 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 |
| 2-Nov-21  | <2                              | <5                    | 7.30                | 3.00                          | 10.00                 | 7600                         | 5.39                     | 0.22                     | 0.76                | 12-Nov-21     |
| 30-Nov-21   | 2.00                            | <5                    | 7.30                | 3.00                          | 3.70                  | 4200                         | 5.14                     | 0.27                     | 0.02                | 10-Dec-21     |
| 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  | 9                               | 9                     | 9             | 9                             | 9                     | 9                            | 9                     | 9                       | 9              |
| Min  | <2                              | <5                    | 7.20          | <2                            | 1.00                  | 350                          | 4.79                  | 0.110                   | 0.01           |
| Mean   | 2.22                            | 2.50                  | 7.30          | 4.33                          | 4.54                  | 7407                         | 5.59                  | 0.210                   | 0.13           |
| Median (50th %ile)   | 2.00                            | 2.50                  | 7.30          | 5.00                          | 2.50                  | 2400                         | 5.25                  | 0.217                   | 0.04           |
| 90th %ile  | 3.60                            | 2.50                  | 7.42          | 6.20                          | 11.04                 | 15080                        | 6.50                  | 0.271                   | 0.25           |
| Max (100th %ile)   | 6.00                            | <5                    | 7.50          | 7.00                          | 15.20                 | 45000                        | 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-Nov-21                                     | 0                     | 620.0                   | NO                  |
| 2-Nov-21                                     | 0                     | 640.0                   | NO                  |
| 3-Nov-21                                     | 0                     | 650.0                   | NO                  |
| 4-Nov-21                                     | 0                     | 680.0                   | NO                  |
| 5-Nov-21                                     | 11.2                  | 730.0                   | NO                  |
| 6-Nov-21                                     | 16.2                  | 880.0                   | NO                  |
| 7-Nov-21                                     | 0                     | 720.0                   | NO                  |
| 8-Nov-21                                     | 11.2                  | 780.0                   | NO                  |
| 9-Nov-21                                     | 9.2                   | 820.0                   | NO                  |
| 10-Nov-21                                    | 0.4                   | 890.0                   | NO                  |
| 11-Nov-21                                    | 11                    | 970.0                   | NO                  |
| 12-Nov-21                                    | 4.4                   | 930.0                   | NO                  |
| 13-Nov-21                                    | 24                    | 1920.0                  | NO                  |
| 14-Nov-21                                    | 15.4                  | 1880.0                  | NO                  |
| 15-Nov-21                                    | 0.2                   | 1250.0                  | NO                  |
| 16-Nov-21                                    | 0                     | 1030.0                  | NO                  |
| 17-Nov-21                                    | 0                     | 880.0                   | NO                  |
| 18-Nov-21                                    | 0                     | 820.0                   | NO                  |
| 19-Nov-21                                    | 0                     | 970.0                   | NO                  |
| 20-Nov-21                                    | 5.2                   | 790.0                   | NO                  |
| 21-Nov-21                                    | 17.4                  | 1050.0                  | NO                  |
| 22-Nov-21                                    | 2.6                   | 1040.0                  | NO                  |
| 23-Nov-21                                    | 0.2                   | 940.0                   | NO                  |
| 24-Nov-21                                    | 0                     | 850.0                   | NO                  |
| 25-Nov-21                                    | 0.2                   | 840.0                   | NO                  |
| 26-Nov-21                                    | 28.4                  | 1310.0                  | NO                  |
| 27-Nov-21                                    | 31                    | 3150.0                  | NO                  |
| 28-Nov-21                                    | 6.2                   | 2070.0                  | NO                  |
| 29-Nov-21                                    | 0                     | 1390.0                  | NO                  |
| 30-Nov-21                                    | 0                     | 1180.0                  | NO                  |
| <b>Monthly Total</b>                         | 194.4                 | 32670.0                 |                     |
| <b>Monthly Minimum</b>                       | 0                     | 620                     |                     |
| <b>Monthly Mean</b>                          | 6.48                  | 1089.00                 |                     |
| <b>Monthly Maximum</b>                       | 31                    | 3150                    |                     |
| <b>Year to Date Total</b>                    | 606.9                 | 206178.0                |                     |
| <b>Year to Date Minimum</b>                  | 0.0                   | 470.0                   |                     |
| <b>Year to Date Mean</b>                     | 2.44                  | 828.02                  |                     |
| <b>Year to Date Maximum</b>                  | 62.4                  | 4828.0                  |                     |

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

| Frequency       | Monthly               | Monthly                 |               |
|-----------------|-----------------------|-------------------------|---------------|
| Sampling Method | Grab Sample           | Grab Sample             |               |
| Sampled Date    | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) | Obtained Date |
| 2-Nov-21        | 2.14                  | 0.183                   | 12-Nov-21     |
| 30-Nov-21       | 1.09                  | 0.089                   | 10-Dec-21     |

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

| Frequency       | Monthly               | Monthly                 |               |
|-----------------|-----------------------|-------------------------|---------------|
| Sampling Method | Grab Sample           | Grab Sample             |               |
| Sampled Date    | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) | Obtained Date |
| 2-Nov-21        | 0.215                 | 0.126                   | 12-Nov-21     |
| 30-Nov-21       | 1.62                  | 0.091                   | 10-Dec-21     |

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

| Year to Date       | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples            | 9                     | 9                       |
| Min                | 0.77                  | 0.028                   |
| Mean               | 1.40                  | 0.067                   |
| Median (50th %ile) | 1.09                  | 0.043                   |
| 90th %ile          | 2.40                  | 0.113                   |
| Max (100th %ile)   | 3.43                  | 0.183                   |

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

| Year to Date       | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples            | 9                     | 9                       |
| Min                | 0.54                  | 0.019                   |
| Mean               | 1.60                  | 0.054                   |
| Median (50th %ile) | 1.62                  | 0.041                   |
| 90th %ile          | 2.16                  | 0.098                   |
| Max (100th %ile)   | 2.19                  | 0.126                   |

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

| Frequency       | Monthly               |                  |               |
|-----------------|-----------------------|------------------|---------------|
| Sampling Method | Grab Sample           | Total Phosphorus | Obtained Date |
| Sampled Date    | Total Nitrogen (mg/L) | (mg/L)           |               |
| 2-Nov-21        | 0.26                  | 0.005            | 12-Nov-21     |
| 30-Nov-21       | 0.59                  | 0.014            | 10-Dec-21     |

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

| Frequency       | Monthly               |                  |               |
|-----------------|-----------------------|------------------|---------------|
| Sampling Method | Grab Sample           | Total Phosphorus | Obtained Date |
| Sampled Date    | Total Nitrogen (mg/L) | (mg/L)           |               |
| 2-Nov-21        | 0.24                  | 0.011            | 12-Nov-21     |
| 30-Nov-21       | 0.58                  | 0.028            | 10-Dec-21     |

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

| Year to Date       | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples            | 9                     | 9                       |
| Min                | 0.17                  | 0.004                   |
| Mean               | 0.32                  | 0.008                   |
| Median (50th %ile) | 0.26                  | 0.008                   |
| 90th %ile          | 0.57                  | 0.012                   |
| Max (100th %ile)   | 0.59                  | 0.014                   |

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

| Year to Date       | Total Nitrogen (mg/L) | Total Phosphorus (mg/L) |
|--------------------|-----------------------|-------------------------|
| Samples            | 9                     | 9                       |
| Min                | 0.16                  | 0.006                   |
| Mean               | 0.31                  | 0.012                   |
| Median (50th %ile) | 0.25                  | 0.011                   |
| 90th %ile          | 0.52                  | 0.017                   |
| Max (100th %ile)   | 0.58                  | 0.028                   |

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### Monthly Exceedance Report

| Date      | Exceedance Type     | Parameter        | Description / Action  |
|-----------|---------------------|------------------|---|
| 2-Nov-21  | Concentration Limit | Faecal Coliforms | Faecal Coliform result (7600 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |
| 30-Nov-21 | Concentration Limit | Faecal Coliforms | Faecal Coliform result (4200 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 |

### EPA Licence Point Map

