

## Moruya Sewage Treatment Plant - Monthly Result Summary - January 2024



Anniversary Date: 1-Apr-23  
Published Date: 8-Feb-24

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

Licence Period: 1-Apr-23 to 31-Mar-24

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: **Jan-24**

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
23-Jan-24	<2	<5	7.30	5.00	82.80	27000	6.90	0.26	0.02	8-Feb-24
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	11	11	11	11	11	11	11	11	11
Min	<2	<5	6.10	<2	0.80	2000	4.11	0.121	0.02
Mean	2.55	2.50	7.06	3.00	15.12	28273	8.17	0.375	0.43
Median (50th %ile)	3.00	2.50	7.20	3.00	4.80	10000	8.38	0.400	0.20
90th %ile	4.00	2.50	7.20	4.00	38.40	85000	9.95	0.544	0.72
Max (100th %ile)	4.00	<5	7.30	5.00	82.80	130000	12.50	0.670	2.49

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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-Jan-24	0	1100.0	NO
2-Jan-24	0	1047.0	NO
3-Jan-24	0	969.0	NO
4-Jan-24	2.4	1123.0	NO
5-Jan-24	10.4	1136.0	NO
6-Jan-24	2.2	958.0	NO
7-Jan-24	0	837.0	NO
8-Jan-24	0	927.0	NO
9-Jan-24	0	865.0	NO
10-Jan-24	5.2	799.0	NO
11-Jan-24	0	797.0	NO
12-Jan-24	2.2	757.0	NO
13-Jan-24	0.2	758.0	NO
14-Jan-24	0	576.0	NO
15-Jan-24	2.2	712.0	NO
16-Jan-24	0.2	758.0	NO
17-Jan-24	0	576.0	NO
18-Jan-24	2.4	845.0	NO
19-Jan-24	0	789.0	NO
20-Jan-24	0	680.0	NO
21-Jan-24	0	645.0	NO
22-Jan-24	0	1259.0	NO
23-Jan-24	2.8	1795.0	NO
24-Jan-24	5	1056.0	NO
25-Jan-24	0	807.0	NO
26-Jan-24	4	747.0	NO
27-Jan-24	1.8	754.0	NO
28-Jan-24	1.6	641.0	NO
29-Jan-24	0.4	695.0	NO
30-Jan-24	0	626.0	NO
31-Jan-24	3.3	1109.0	NO
Monthly Total	46.3	27143.0	
Monthly Minimum	0	576	
Monthly Mean	1.49	875.58	
Monthly Maximum	10.4	1795	
Year to Date Total	352.9	213129.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	1.15	696.50	
Year to Date Maximum	57.8	6214.0	

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
23-Jan-24	1.63	0.115	1200	8-Feb-24

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
23-Jan-24	1.03	0.080	1800	8-Feb-24

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	11	11	11
Min	1.46	0.049	32
Mean	4.21	0.199	862
Median (50th %ile)	2.37	0.115	140
90th %ile	9.78	0.455	1200
Max (100th %ile)	10.20	0.535	6000

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	11	11	11
Min	0.39	0.023	29
Mean	2.38	0.098	530
Median (50th %ile)	1.82	0.048	150
90th %ile	5.88	0.165	1800
Max (100th %ile)	7.55	0.481	2400

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
23-Jan-24	0.21	0.012	290	8-Feb-24

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

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	Obtained Date
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	
23-Jan-24	0.24	0.014	390	8-Feb-24

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	11	11	11
Min	0.12	0.004	2
Mean	0.20	0.012	135
Median (50th %ile)	0.21	0.011	22
90th %ile	0.27	0.019	290
Max (100th %ile)	0.27	0.020	900

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)
Samples	11	11	11
Min	0.16	0.006	4
Mean	0.21	0.015	77
Median (50th %ile)	0.21	0.014	25
90th %ile	0.25	0.026	200
Max (100th %ile)	0.28	0.028	390

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
23-Jan-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (27'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

### EPA Licence Point Map

