

Moruya Sewage Treatment Plant - Monthly Result Summary - May 2024



Anniversary Date: 1-Apr-24
Published Date: 18-Jun-24

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

Licence Period: 1-Apr-24 to 31-Mar-25

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: **May-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
14-May-24	2.00	<5	7.10	6.00	18.80	48000	8.71	0.24	0.02	24-May-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	2	2	2	2	2	2	2	2	2
Min	<2	<5	7.10	6.00	5.80	48000	8.71	0.235	0.02
Mean	1.50	2.50	7.15	6.00	12.30	58000	10.61	0.252	0.04
Median (50th %ile)	1.50	2.50	7.15	6.00	12.30	58000	10.61	0.252	0.04
90th %ile	1.90	2.50	7.19	6.00	17.50	66000	12.12	0.265	0.05
Max (100th %ile)	2.00	<5	7.20	6.00	18.80	68000	12.50	0.268	0.05

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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-May-24	0	605.0	NO
2-May-24	0.2	608.0	NO
3-May-24	0.2	568.0	NO
4-May-24	1.6	1078.0	NO
5-May-24	37.4	1679.0	NO
6-May-24	15.6	1457.0	NO
7-May-24	3.4	1145.0	NO
8-May-24	2.4	1033.0	NO
9-May-24	4	144.0	NO
10-May-24	10.8	2691.0	NO
11-May-24	26.4	5025.0	NO
12-May-24	89.8	6035.0	NO
13-May-24	77.2	4676.0	NO
14-May-24	0.6	3993.0	NO
15-May-24	0.6	2919.0	NO
16-May-24	0	2553.0	NO
17-May-24	0	1289.0	NO
18-May-24	0	1032.0	NO
19-May-24	0	976.0	NO
20-May-24	0	966.0	NO
21-May-24	0	860.0	NO
22-May-24	0	844.0	NO
23-May-24	0	804.0	NO
24-May-24	0	759.0	NO
25-May-24	0	705.0	NO
26-May-24	0	710.0	NO
27-May-24	0	715.0	NO
28-May-24	0	718.0	NO
29-May-24	0	685.0	NO
30-May-24	0	676.0	NO
31-May-24	0	653.0	NO
Monthly Total	270.2	48601.0	
Monthly Minimum	0	144	
Monthly Mean	8.72	1567.77	
Monthly Maximum	89.8	6035	
Year to Date Total	327.2	79299.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	5.36	1299.98	
Year to Date Maximum	89.8	6035.0	

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Licence Point 7 (MO807) - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
14-May-24	7	0.102	680	24-Jun-24

Licence Point 8 (MO808) - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
14-May-24	2.73	0.130	1300	24-May-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	2	2	2
Min	2.06	0.102	540
Mean	4.53	0.124	610
Median (50th %ile)	4.53	0.124	610
90th %ile	6.51	0.142	666
Max (100th %ile)	7.00	0.146	680

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	2	2	2
Min	2.73	0.128	460
Mean	4.72	0.129	880
Median (50th %ile)	4.72	0.129	880
90th %ile	6.30	0.130	1216
Max (100th %ile)	6.70	0.130	1300

Licence Point 9 (MO809) - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
14-May-24	0.84	0.049	170	24-May-24

Licence Point 10 (MO810) - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
14-May-24	1.58	0.097	1200	24-May-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	2	2	2
Min	0.39	0.014	91
Mean	0.62	0.032	131
Median (50th %ile)	0.62	0.032	131
90th %ile	0.80	0.046	162
Max (100th %ile)	0.84	0.049	170

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	2	2	2
Min	0.45	0.018	200
Mean	1.02	0.058	700
Median (50th %ile)	1.02	0.058	700
90th %ile	1.47	0.089	1100
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
14-May-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (48'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond) Post finishing pond actual discharge results to Ryan's Creek (MO818) = 1800 CFU/100mL.

EPA Licence Point Map

