

Moruya Sewage Treatment Plant - Monthly Result Summary - October 2024



Anniversary Date: 1-Apr-24
Published Date: 11-Nov-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: **Oct-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
1-Oct-24	6.00	<5	7.00	4.00	2.80	89000	10.00	0.40	0.04	15-Oct-24
29-Oct-24	2.00	<5	7.00	<2	8.74	44000	12.20	0.24	0.08	8-Nov-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	8	8	8	8	8	8	8	8	8
Min	<2	<5	6.90	<2	0.70	2100	6.58	0.187	0.01
Mean	3.00	2.50	7.11	4.50	5.31	42625	11.05	0.253	0.04
Median (50th %ile)	2.50	2.50	7.05	4.50	2.55	46000	11.10	0.237	0.04
90th %ile	5.30	2.50	7.33	6.90	11.76	74300	15.43	0.318	0.06
Max (100th %ile)	6.00	<5	7.40	9.00	18.80	89000	16.20	0.401	0.08

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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-Oct-24	0	508.0	NO
2-Oct-24	0	549.0	NO
3-Oct-24	0	589.0	NO
4-Oct-24	0	596.0	NO
5-Oct-24	1.6	606.0	NO
6-Oct-24	0.8	547.0	NO
7-Oct-24	0	503.0	NO
8-Oct-24	0	519.0	NO
9-Oct-24	0	481.0	NO
10-Oct-24	0	484.0	NO
11-Oct-24	0	480.0	NO
12-Oct-24	0.8	479.0	NO
13-Oct-24	0	446.0	NO
14-Oct-24	0	490.0	NO
15-Oct-24	2.8	500.0	NO
16-Oct-24	5.6	464.0	NO
17-Oct-24	0	460.0	NO
18-Oct-24	0	499.0	NO
19-Oct-24	0	452.0	NO
20-Oct-24	0	453.0	NO
21-Oct-24	0	484.0	NO
22-Oct-24	0	450.0	NO
23-Oct-24	0	448.0	NO
24-Oct-24	0.4	517.0	NO
25-Oct-24	10.6	521.0	NO
26-Oct-24	1	443.0	NO
27-Oct-24	0	433.0	NO
28-Oct-24	0	502.0	NO
29-Oct-24	0	474.0	NO
30-Oct-24	0	445.0	NO
31-Oct-24	0	442.0	NO
Monthly Total	23.6	15264.0	
Monthly Minimum	0	433	
Monthly Mean	0.76	492.39	
Monthly Maximum	10.6	606	
Year to Date Total	442.1	172651.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	2.07	806.78	
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
1-Oct-24	2.51	0.038	610	15-Oct-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
1-Oct-24	0.69	0.024	220	15-Oct-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	8	8	8
Min	0.68	0.033	210
Mean	3.57	0.070	424
Median (50th %ile)	2.29	0.064	385
90th %ile	8.20	0.115	631
Max (100th %ile)	11.00	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	8	8	8
Min	0.30	0.015	49
Mean	2.47	0.060	415
Median (50th %ile)	1.76	0.038	315
90th %ile	4.86	0.129	712
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
1-Oct-24	0.15	0.012	23	15-Oct-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
1-Oct-24	0.19	0.014	5	15-Oct-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	8	8	8
Min	0.15	0.009	9
Mean	0.33	0.017	61
Median (50th %ile)	0.20	0.012	24
90th %ile	0.62	0.026	149
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	8	8	8
Min	0.19	0.011	4
Mean	0.46	0.026	209
Median (50th %ile)	0.22	0.015	10
90th %ile	0.88	0.049	528
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
1-Oct-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (89000 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) = <1 CFU/100mL.
29-Oct-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (44000 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) = 1 CFU/100mL.
1-Oct-24	Concentration Limit	Total Nitrogen	Total Nitrogen result (10.00 mg/L) exceeded 90 percentile concentration limit (10.00mg/L) at monitoring point 3 (Post finishing pond) Post finishing pond actual discharge to Ryan's Creek (MO818) = 7.48mg/L.
29-Oct-24	Concentration Limit	Total Nitrogen	Total Nitrogen result (12.20 mg/L) exceeded 90 percentile concentration limit (10.00mg/L) at monitoring point 3 (Post finishing pond) Post finishing pond actual discharge to Ryan's Creek (MO818) = 4.35mg/L.

EPA Licence Point Map



