

Moruya Sewage Treatment Plant - Monthly Result Summary - June 2024



Anniversary Date: 1-Apr-24
Published Date: 4-Jul-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: **Jun-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
11-Jun-24	3.00	<5	7.40	4.00	0.70	56000	6.58	0.19	0.01	26-Jun-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	3	3	3	3	3	3	3	3	3
Min	<2	<5	7.10	4.00	0.70	48000	6.58	0.187	0.01
Mean	2.00	2.50	7.23	5.33	8.43	57333	9.26	0.230	0.03
Median (50th %ile)	2.00	2.50	7.20	6.00	5.80	56000	8.71	0.235	0.02
90th %ile	2.80	2.50	7.36	6.00	16.20	65600	11.74	0.261	0.04
Max (100th %ile)	3.00	<5	7.40	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-Jun-24	0	632.0	NO
2-Jun-24	0	630.0	NO
3-Jun-24	0	724.0	NO
4-Jun-24	8.8	678.0	NO
5-Jun-24	0	639.0	NO
6-Jun-24	0	681.0	NO
7-Jun-24	5.8	2067.0	NO
8-Jun-24	40.4	1539.0	NO
9-Jun-24	0	1095.0	NO
10-Jun-24	0.2	958.0	NO
11-Jun-24	0	1054.0	NO
12-Jun-24	0	896.0	NO
13-Jun-24	2	847.0	NO
14-Jun-24	0	804.0	NO
15-Jun-24	4.6	779.0	NO
16-Jun-24	0	766.0	NO
17-Jun-24	0	773.0	NO
18-Jun-24	0	726.0	NO
19-Jun-24	0	2048.0	NO
20-Jun-24	0	1154.0	NO
21-Jun-24	0	784.0	NO
22-Jun-24	0	685.0	NO
23-Jun-24	0	640.0	NO
24-Jun-24	0	731.0	NO
25-Jun-24	0	678.0	NO
26-Jun-24	0	655.0	NO
27-Jun-24	0	665.0	NO
28-Jun-24	0	642.0	NO
29-Jun-24	0	618.0	NO
30-Jun-24	0	610.0	NO
Monthly Total	61.8	26198.0	
Monthly Minimum	0	610	
Monthly Mean	2.06	873.27	
Monthly Maximum	40.4	2067	
Year to Date Total	389.0	105497.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	4.27	1159.31	
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
11-Jun-24	3.8	0.079	210	26-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
11-Jun-24	3.79	0.079	340	26-Jun-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	3	3	3
Min	2.06	0.079	210
Mean	4.28	0.109	477
Median (50th %ile)	3.79	0.102	540
90th %ile	6.36	0.137	652
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	3	3	3
Min	2.73	0.079	340
Mean	4.41	0.112	700
Median (50th %ile)	3.79	0.128	460
90th %ile	6.12	0.130	1132
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
11-Jun-24	0.52	0.016	140	26-Jun-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
11-Jun-24	0.58	0.028	240	26-Jun-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	3	3	3
Min	0.39	0.014	91
Mean	0.58	0.026	134
Median (50th %ile)	0.52	0.016	140
90th %ile	0.78	0.042	164
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	3	3	3
Min	0.45	0.018	200
Mean	0.87	0.048	547
Median (50th %ile)	0.58	0.028	240
90th %ile	1.38	0.083	1008
Max (100th %ile)	1.58	0.097	1200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
11-Jun-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (56'000 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) = 3 CFU/100mL.

EPA Licence Point Map

