

Moruya Sewage Treatment Plant - Monthly Result Summary - August 2023



Anniversary Date: 1-Apr-23
Published Date: 11-Sep-23

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: **Aug-23**

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
8-Aug-23	4.00	<5	7.00	2.00	3.90	130000	9.34	0.42	0.72	19-Aug-23
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	5	5	5	5	5	5	5	5	5
Min	<2	<5	7.00	<2	1.20	4800	7.14	0.251	0.02
Mean	2.60	2.50	7.14	2.40	3.64	32420	8.77	0.429	0.33
Median (50th %ile)	3.00	2.50	7.20	2.00	3.90	9300	9.03	0.420	0.22
90th %ile	3.60	2.50	7.20	3.60	5.76	82000	9.71	0.620	0.63
Max (100th %ile)	4.00	<5	7.20	4.00	6.40	130000	9.95	0.670	0.72

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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-Aug-22	0	439.0	NO
2-Aug-22	0	618.0	NO
3-Aug-22	0	551.0	NO
4-Aug-22	0	460.0	NO
5-Aug-22	0	420.0	NO
6-Aug-22	0	434.0	NO
7-Aug-22	0	614.0	NO
8-Aug-22	0	505.0	NO
9-Aug-22	0	442.0	NO
10-Aug-22	0	489.0	NO
11-Aug-22	0	432.0	NO
12-Aug-22	0	423.0	NO
13-Aug-22	0	417.0	NO
14-Aug-22	1.8	480.0	NO
15-Aug-22	6	463.0	NO
16-Aug-22	0	478.0	NO
17-Aug-22	0	441.0	NO
18-Aug-22	0	420.0	NO
19-Aug-22	0	423.0	NO
20-Aug-22	0	423.0	NO
21-Aug-22	0	567.0	NO
22-Aug-22	0	675.0	NO
23-Aug-22	0.4	482.0	NO
24-Aug-22	4	473.0	NO
25-Aug-22	0	510.0	NO
26-Aug-22	0	522.0	NO
27-Aug-22	5.8	472.0	NO
28-Aug-22	1	580.0	NO
29-Aug-22	4	512.0	NO
30-Aug-22	0.2	504.0	NO
31-Aug-22	0	459.0	NO
Monthly Total	23.2	15128.0	
Monthly Minimum	0	417	
Monthly Mean	0.75	488.00	
Monthly Maximum	6	675	
Year to Date Total	117.3	83063.0	
Year to Date Minimum	0.0	417.0	
Year to Date Mean	0.77	542.90	
Year to Date Maximum	40.4	1534.0	

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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
8-Aug-23	10.2	0.455	19-Aug-23

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
8-Aug-23	5.88	0.075	19-Aug-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	5	5
Min	2.01	0.049
Mean	5.59	0.175
Median (50th %ile)	3.59	0.088
90th %ile	10.03	0.356
Max (100th %ile)	10.20	0.455

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	5	5
Min	1.11	0.040
Mean	2.73	0.052
Median (50th %ile)	2.06	0.048
90th %ile	4.64	0.067
Max (100th %ile)	5.88	0.075

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
8-Aug-23	0.17	0.004	19-Aug-23

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency	Monthly		
Sampling Method	Grab Sample	Total Phosphorus	
Sampled Date	Total Nitrogen (mg/L)	(mg/L)	Obtained Date
8-Aug-23	0.16	0.006	19-Aug-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	5	5
Min	0.12	0.004
Mean	0.18	0.009
Median (50th %ile)	0.17	0.008
90th %ile	0.24	0.013
Max (100th %ile)	0.27	0.014

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	5	5
Min	0.16	0.006
Mean	0.20	0.011
Median (50th %ile)	0.19	0.011
90th %ile	0.24	0.015
Max (100th %ile)	0.25	0.015

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
8-Aug-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (130'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

