

Moruya Sewage Treatment Plant - Monthly Result Summary - September 2021



Anniversary Date: 1-Apr-21
Published Date: 3-Nov-21

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

Licence Period: 1-Apr-21 to 31-Mar-22

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: **Sep-21**

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
7-Sep-21	<2	<5	7.20	2.00	1.60	810	5.18	0.17	0.04	17-Sep-21
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	6	6	6	6	6	6	6	6	6
Min	<2	<5	7.20	<2	1.00	350	4.79	0.110	0.01
Mean	2.50	2.50	7.27	4.67	4.22	8743	5.75	0.196	0.05
Median (50th %ile)	2.00	2.50	7.25	6.00	2.40	1400	5.44	0.190	0.04
90th %ile	4.50	2.50	7.35	6.50	8.95	24250	6.90	0.270	0.10
Max (100th %ile)	6.00	<5	7.40	7.00	15.20	45000	7.55	0.296	0.12

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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-Sep-21	0	770.0	NO
2-Sep-21	0	700.0	NO
3-Sep-21	0	650.0	NO
4-Sep-21	0	760.0	NO
5-Sep-21	18.4	1270.0	NO
6-Sep-21	10.4	960.0	NO
7-Sep-21	0	790.0	NO
8-Sep-21	0	750.0	NO
9-Sep-21	0	710.0	NO
10-Sep-21	0	660.0	NO
11-Sep-21	0	650.0	NO
12-Sep-21	0	620.0	NO
13-Sep-21	0	650.0	NO
14-Sep-21	0	590.0	NO
15-Sep-21	0	580.0	NO
16-Sep-21	0.8	610.0	NO
17-Sep-21	0.2	620.0	NO
18-Sep-21	0	550.0	NO
19-Sep-21	0	530.0	NO
20-Sep-21	0	560.0	NO
21-Sep-21	0	580.0	NO
22-Sep-21	0	530.0	NO
23-Sep-21	0	570.0	NO
24-Sep-21	0	550.0	NO
25-Sep-21	0	490.0	NO
26-Sep-21	0.2	520.0	NO
27-Sep-21	0	550.0	NO
28-Sep-21	0	520.0	NO
29-Sep-21	0	520.0	NO
30-Sep-21	0	680.0	NO
31-Aug-21	0.2	830.0	NO
Monthly Total	30.2	20320.0	
Monthly Minimum	0	490	
Monthly Mean	0.97	655.48	
Monthly Maximum	18.4	1270	
Year to Date Total	321.4	143888.0	
Year to Date Minimum	0.0	470.0	
Year to Date Mean	1.76	786.27	
Year to Date Maximum	62.4	4828.0	

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Licence Point 7 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
7-Sep-21	1.29	0.095	17-Sep-21

Licence Point 8 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
7-Sep-21	1.92	0.082	17-Sep-21

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	6	6
Min	0.77	0.028
Mean	1.39	0.049
Median (50th %ile)	1.04	0.041
90th %ile	2.36	0.071
Max (100th %ile)	3.43	0.095

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	6	6
Min	0.54	0.019
Mean	1.59	0.040
Median (50th %ile)	1.74	0.035
90th %ile	2.06	0.064
Max (100th %ile)	2.19	0.082

Licence Point 9 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
7-Sep-21	0.26	0.008	17-Sep-21

Licence Point 10 - Ambient Water Monitoring (Monthly Result)

Frequency Sampling Method	Monthly Grab Sample		
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Obtained Date
7-Sep-21	0.29	0.013	17-Sep-21

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	6	6
Min	0.17	0.004
Mean	0.30	0.008
Median (50th %ile)	0.26	0.008
90th %ile	0.47	0.010
Max (100th %ile)	0.57	0.011

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	6	6
Min	0.16	0.006
Mean	0.29	0.010
Median (50th %ile)	0.27	0.010
90th %ile	0.44	0.014
Max (100th %ile)	0.51	0.014

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
7-Sep-21	Concentration Limit	Faecal Coliforms	100 Percentile concentration limit exceeded. Operators to assess UV system.

EPA Licence Point Map

