

Moruya Sewage Treatment Plant - Monthly Result Summary - December 2023



Anniversary Date: 1-Apr-23
Published Date: 4-Jan-24

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: **Dec-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
19-Dec-23	3.00	<5	7.20	4.00	8.50	10000	6.55	0.40	0.35	19-Dec-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	10	10	10	10	10	10	10	10	10
Min	<2	<5	6.10	<2	0.80	2000	4.11	0.121	0.02
Mean	2.70	2.50	7.04	2.80	8.35	28400	8.29	0.387	0.48
Median (50th %ile)	3.00	2.50	7.15	3.00	4.35	9650	8.71	0.410	0.21
90th %ile	4.00	2.50	7.20	4.00	17.34	89500	10.21	0.557	0.90
Max (100th %ile)	4.00	<5	7.20	4.00	38.40	130000	12.50	0.670	2.49

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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-Dec-23	0	2832.0	NO
2-Dec-23	0	2377.0	NO
3-Dec-23	0	1745.0	NO
4-Dec-23	0	1165.0	NO
5-Dec-23	0	1013.0	NO
6-Dec-23	0	1120.0	NO
7-Dec-23	0	1312.0	NO
8-Dec-23	0	1111.0	NO
9-Dec-23	7	822.0	NO
10-Dec-23	1.2	733.0	NO
11-Dec-23	0.4	1181.0	NO
12-Dec-23	0.2	1508.0	NO
13-Dec-23	0	1113.0	NO
14-Dec-23	0	1110.0	NO
15-Dec-23	0	1286.0	NO
16-Dec-23	0	904.0	NO
17-Dec-23	0	610.0	NO
18-Dec-23	0	851.0	NO
19-Dec-23	0	939.0	NO
20-Dec-23	10.4	1689.0	NO
21-Dec-23	17.2	773.0	NO
22-Dec-23	0.6	698.0	NO
23-Dec-23	0	598.0	NO
24-Dec-23	0	636.0	NO
25-Dec-23	0	2280.0	NO
26-Dec-23	7	5861.0	NO
27-Dec-23	57.8	4074.0	NO
28-Dec-23	13.2	3208.0	NO
29-Dec-23	0.2	2209.0	NO
30-Dec-23	10.4	1699.0	NO
31-Dec-23	3.3	1224.0	NO
Monthly Total	128.9	48681.0	
Monthly Minimum	0	598	
Monthly Mean	4.16	1570.35	
Monthly Maximum	57.8	5861	
Year to Date Total	306.6	185986.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	1.11	676.31	
Year to Date Maximum	57.8	6214.0	

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Licence Point 7 - 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
19-Dec-23	1.78	0.128	760	19-Dec-23

Licence Point 8 - 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
19-Dec-23	2.4	0.165	570	19-Dec-23

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	10	10	10
Min	1.46	0.049	32
Mean	4.47	0.207	828
Median (50th %ile)	2.98	0.114	135
90th %ile	9.82	0.463	1284
Max (100th %ile)	10.20	0.535	6000

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	10	10	10
Min	0.39	0.023	29
Mean	2.52	0.100	404
Median (50th %ile)	1.94	0.045	125
90th %ile	6.05	0.197	753
Max (100th %ile)	7.55	0.481	2400

Licence Point 9 - 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
19-Dec-23	0.27	0.009	100	19-Dec-23

Licence Point 10 - 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
19-Dec-23	0.28	0.009	75	19-Dec-23

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	10	10	10
Min	0.12	0.004	2
Mean	0.20	0.012	119
Median (50th %ile)	0.21	0.010	19
90th %ile	0.27	0.019	180
Max (100th %ile)	0.27	0.020	900

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	10	10	10
Min	0.16	0.006	4
Mean	0.21	0.015	45
Median (50th %ile)	0.21	0.014	24
90th %ile	0.25	0.026	88
Max (100th %ile)	0.28	0.028	200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
19-Dec-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (10'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

