

Moruya Sewage Treatment Plant - Monthly Result Summary - November 2023



Anniversary Date: 1-Apr-23
Published Date: 18-Dec-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: **Nov-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
28-Nov-23	4.00	<5	7.20	3.00	2.60	85000	4.11	0.32	0.20	12-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	9	9	9	9	9	9	9	9	9
Min	<2	<5	6.10	<2	0.80	2000	4.11	0.121	0.02
Mean	2.67	2.50	7.02	2.67	8.33	30444	8.49	0.385	0.49
Median (50th %ile)	3.00	2.50	7.10	3.00	3.90	9300	9.03	0.420	0.20
90th %ile	4.00	2.50	7.20	4.00	19.68	94000	10.46	0.569	1.07
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-Nov-23	0	449.0	NO
2-Nov-23	0	487.0	NO
3-Nov-23	0	540.0	NO
4-Nov-23	0	429.0	NO
5-Nov-23	0	457.0	NO
6-Nov-23	0	511.0	NO
7-Nov-23	0	464.0	NO
8-Nov-23	0	501.0	NO
9-Nov-23	0	470.0	NO
10-Nov-23	0.2	456.0	NO
11-Nov-23	0	438.0	NO
12-Nov-23	0	433.0	NO
13-Nov-23	0	458.0	NO
14-Nov-23	1.1	554.0	NO
15-Nov-23	1.1	554.0	NO
16-Nov-23	0	651.0	NO
17-Nov-23	0	495.0	NO
18-Nov-23	0	435.0	NO
19-Nov-23	0	412.0	NO
20-Nov-23	0	507.0	NO
21-Nov-23	0	510.0	NO
22-Nov-23	0	508.0	NO
23-Nov-23	0	486.0	NO
24-Nov-23	0	517.0	NO
25-Nov-23	0	535.0	NO
26-Nov-23	0	502.0	NO
27-Nov-23	0	604.0	NO
28-Nov-23	0	1429.0	NO
29-Nov-23	0	6214.0	NO
30-Nov-23	35.6	3468.0	NO
Monthly Total	38	24474.0	
Monthly Minimum	0	412	
Monthly Mean	1.27	815.80	
Monthly Maximum	35.6	6214	
Year to Date Total	177.7	137305.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	0.73	562.73	
Year to Date Maximum	40.4	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
28-Nov-23	1.46	0.100	6000	12-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
28-Nov-23	0.66	0.023	2400	12-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	9	9	9
Min	1.46	0.049	32
Mean	4.77	0.216	836
Median (50th %ile)	3.59	0.100	130
90th %ile	9.86	0.471	1800
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	9	9	9
Min	0.39	0.023	29
Mean	2.53	0.093	385
Median (50th %ile)	1.82	0.042	100
90th %ile	6.21	0.156	752
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
28-Nov-23	0.24	0.020	900	12-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
28-Nov-23	0.21	0.017	26	12-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	9	9	9
Min	0.12	0.004	2
Mean	0.19	0.012	121
Median (50th %ile)	0.19	0.011	15
90th %ile	0.25	0.019	244
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	9	9	9
Min	0.16	0.006	4
Mean	0.20	0.016	42
Median (50th %ile)	0.21	0.014	23
90th %ile	0.23	0.026	86
Max (100th %ile)	0.25	0.028	200

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Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
28-Nov-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (85'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

EPA Licence Point Map

