

## Moruya Sewage Treatment Plant - Monthly Result Summary - October 2022



Anniversary Date: 1-Apr-21  
Published Date: 14-Nov-22

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: **Oct-22**

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
4-Oct-22	5.00	<5	7.60	7.00	1.30	300	5.44	0.32	0.02	16-Oct-22
100 Percentile Exceedance?	NO	NO	NO	NO	NO	NO	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	7	7	7	7	7	7	7	7	7
Min	<2	<5	7.30	3.00	0.90	300	5.06	0.120	0.01
Mean	2.71	2.50	7.50	5.57	6.81	5700	7.36	0.176	0.06
Median (50th %ile)	3.00	2.50	7.60	4.00	5.00	6000	6.42	0.153	0.02
90th %ile	4.40	2.50	7.64	9.00	15.64	10000	10.41	0.238	0.15
Max (100th %ile)	5.00	<5	7.70	12.00	16.60	10000	12.80	0.315	0.35

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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-Oct-22	8.2	3075.0	NO
2-Oct-22	0	2175.0	NO
3-Oct-22	0	1955.0	NO
4-Oct-22	0	1710.0	NO
5-Oct-22	21.5	2781.0	NO
6-Oct-22	46.8	5105.0	NO
7-Oct-22	4	2319.0	NO
8-Oct-22	16.2	2804.0	NO
9-Oct-22	8.8	3575.0	NO
10-Oct-22	0	1720.0	NO
11-Oct-22	0	1289.0	NO
12-Oct-22	0	1345.0	NO
13-Oct-22	0	1413.0	NO
14-Oct-22	0.8	1379.0	NO
15-Oct-22	0.8	1179.0	NO
16-Oct-22	4.8	1139.0	NO
17-Oct-22	0.2	1197.0	NO
18-Oct-22	0	1090.0	NO
19-Oct-22	0	1037.0	NO
20-Oct-22	5.8	1004.0	NO
21-Oct-22	12	1615.0	NO
22-Oct-22	0	1615.0	NO
23-Oct-22	0.6	1584.0	NO
24-Oct-22	49.6	3040.0	NO
25-Oct-22	30.8	4739.0	NO
26-Oct-22	0	2069.0	NO
27-Oct-22	0	1971.0	NO
28-Oct-22	0	2003.0	NO
29-Oct-22	0	1629.0	NO
30-Oct-22	0	1309.0	NO
31-Oct-22	2.8	971.0	NO
Monthly Total	213.7	61836.0	
Monthly Minimum	0	971	
Monthly Mean	6.89	1994.71	
Monthly Maximum	49.6	5105	
Year to Date Total	517.3	214988.0	
Year to Date Minimum	0.0	0.0	
Year to Date Mean	2.42	1004.62	
Year to Date Maximum	49.6	5125.0	

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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
4-Oct-22	1.01	0.083	16-Oct-22

### 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
4-Oct-22	2.32	0.090	16-Oct-22

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	7	7
Min	1.01	0.045
Mean	2.55	0.165
Median (50th %ile)	1.22	0.086
90th %ile	5.73	0.342
Max (100th %ile)	7.37	0.485

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	7	7
Min	1.07	0.062
Mean	3.30	0.134
Median (50th %ile)	3.46	0.133
90th %ile	5.12	0.209
Max (100th %ile)	5.89	0.248

### 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
4-Oct-22	0.86	0.016	16-Oct-22

### 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
4-Oct-22	1.26	0.068	16-Oct-22

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	7	7
Min	0.15	0.003
Mean	0.43	0.011
Median (50th %ile)	0.39	0.009
90th %ile	0.71	0.019
Max (100th %ile)	0.86	0.023

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	7	7
Min	0.20	0.006
Mean	0.47	0.021
Median (50th %ile)	0.36	0.011
90th %ile	0.79	0.045
Max (100th %ile)	1.26	0.068

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
4-Oct-22	Concentration Limit	Faecal Coliforms	Faecal Coliform result (300 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

### EPA Licence Point Map

