

## Moruya Sewage Treatment Plant - Monthly Result Summary - July 2023



Anniversary Date: 1-Apr-23  
Published Date: 29-Aug-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: **Jul-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
11-Jul-23	3.00	<5	7.10	4.00	1.20	4800	9.95	0.25	0.22	22-Jul-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	4	4	4	4	4	4	4	4	4
Min	<2	<5	7.10	<2	1.20	4800	7.14	0.251	0.02
Mean	2.25	2.50	7.18	2.50	3.58	8025	8.63	0.431	0.23
Median (50th %ile)	2.50	2.50	7.20	2.50	3.35	8650	8.71	0.402	0.21
90th %ile	3.00	2.50	7.20	3.70	5.92	9790	9.67	0.632	0.42
Max (100th %ile)	3.00	<5	7.20	4.00	6.40	10000	9.95	0.670	0.50

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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-Jul-22	0	579.0	NO
2-Jul-22	0	515.0	NO
3-Jul-22	0	582.0	NO
4-Jul-22	0	517.0	NO
5-Jul-22	0	542.0	NO
6-Jul-22	0.2	514.0	NO
7-Jul-22	0	523.0	NO
8-Jul-22	0	499.0	NO
9-Jul-22	0	484.0	NO
10-Jul-22	0	533.0	NO
11-Jul-22	0	520.0	NO
12-Jul-22	1.1	542.0	NO
13-Jul-22	0	499.0	NO
14-Jul-22	0	469.0	NO
15-Jul-22	0	474.0	NO
16-Jul-22	0	458.0	NO
17-Jul-22	0	558.0	NO
18-Jul-22	0	496.0	NO
19-Jul-22	0	473.0	NO
20-Jul-22	0	458.0	NO
21-Jul-22	0	449.0	NO
22-Jul-22	0	473.0	NO
23-Jul-22	0	442.0	NO
24-Jul-22	0	569.0	NO
25-Jul-22	0	489.0	NO
26-Jul-22	0	461.0	NO
27-Jul-22	0	482.0	NO
28-Jul-22	0	451.0	NO
29-Jul-22	0	466.0	NO
30-Jul-22	0	439.0	NO
31-Jul-22	0	529.0	NO
<b>Monthly Total</b>	1.3	15485.0	
<b>Monthly Minimum</b>	0	439	
<b>Monthly Mean</b>	0.04	499.52	
<b>Monthly Maximum</b>	1.1	582	
<b>Year to Date Total</b>	94.1	67935.0	
<b>Year to Date Minimum</b>	0.0	439.0	
<b>Year to Date Mean</b>	0.77	556.84	
<b>Year to Date Maximum</b>	40.4	1534.0	

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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
11-Jul-23	9.78	0.207	22-Jul-23

### 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
11-Jul-23	2.79	0.048	22-Jul-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	2.01	0.049
Mean	4.44	0.105
Median (50th %ile)	2.98	0.083
90th %ile	7.92	0.171
Max (100th %ile)	9.78	0.207

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	1.11	0.040
Mean	1.95	0.046
Median (50th %ile)	1.94	0.045
90th %ile	2.57	0.053
Max (100th %ile)	2.79	0.055

### 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
11-Jul-23	0.12	0.008	22-Jul-23

### 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
11-Jul-23	0.17	0.010	22-Jul-23

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

Year to Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)
Samples	4	4
Min	0.12	0.008
Mean	0.18	0.010
Median (50th %ile)	0.17	0.010
90th %ile	0.25	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	4	4
Min	0.17	0.010
Mean	0.21	0.013
Median (50th %ile)	0.21	0.013
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
11-Jul-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (4800 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

### EPA Licence Point Map

