

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



Anniversary Date: 1-Apr-23  
Published Date: 10-Nov-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: **Oct-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
3-Oct-23	2.00	<5	7.10	3.00	15.00	2000	9.67	0.43	0.03	14-Oct-23
31-Oct-23	3.00	<5	7.10	2.00	38.40	2900	6.25	0.46	0.03	9-Nov-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	8	8	8	8	8	8	8	8	8
Min	<2	<5	6.10	<2	0.80	2000	6.25	0.121	0.02
Mean	2.50	2.50	7.00	2.63	9.05	23625	9.03	0.394	0.53
Median (50th %ile)	2.50	2.50	7.10	2.50	4.35	8650	9.19	0.423	0.21
90th %ile	3.30	2.50	7.20	4.00	22.02	54400	10.72	0.582	1.25
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-Oct-22	0	533.0	NO
2-Oct-22	0	476.0	NO
3-Oct-22	0	488.0	NO
4-Oct-22	0	509.0	NO
5-Oct-22	7.6	528.0	NO
6-Oct-22	0	482.0	NO
7-Oct-22	0	446.0	NO
8-Oct-22	0	439.0	NO
9-Oct-22	0	548.0	NO
10-Oct-22	0	528.0	NO
11-Oct-22	0	457.0	NO
12-Oct-22	0.4	557.0	NO
13-Oct-22	5.8	559.0	NO
14-Oct-22	0	502.0	NO
15-Oct-22	0	463.0	NO
16-Oct-22	0	546.0	NO
17-Oct-22	0	578.0	NO
18-Oct-22	0	477.0	NO
19-Oct-22	0	472.0	NO
20-Oct-22	0	508.0	NO
21-Oct-22	0	517.0	NO
22-Oct-22	0	443.0	NO
23-Oct-22	0	463.0	NO
24-Oct-22	0	430.0	NO
25-Oct-22	0	428.0	NO
26-Oct-22	0	467.0	NO
27-Oct-22	0	438.0	NO
28-Oct-22	0	416.0	NO
29-Oct-22	0	398.0	NO
30-Oct-22	3.3	455.0	NO
31-Oct-22	3.3	426.0	NO
Monthly Total	20.4	14977.0	
Monthly Minimum	0	398	
Monthly Mean	0.66	483.13	
Monthly Maximum	7.6	578	
Year to Date Total	139.7	112831.0	
Year to Date Minimum	0.0	398.0	
Year to Date Mean	0.65	527.25	
Year to Date Maximum	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	Monthly Grab Sample	
Sampled Date	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Faecal Coliforms (CFU/100mL)	Obtained Date
3-Oct-23	4.49	0.535	68	14-Oct-23
31-Oct-23	1.68	0.083	230	

### 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
3-Oct-23	0.39	0.028	30	14-Oct-23
31-Oct-23	0.52	0.042	150	

### 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	8	8	8
Min	1.68	0.049	32
Mean	5.18	0.230	190
Median (50th %ile)	4.04	0.148	125
90th %ile	9.91	0.479	386
Max (100th %ile)	10.20	0.535	750

### 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	8	8	8
Min	0.39	0.028	29
Mean	2.77	0.101	133
Median (50th %ile)	1.94	0.045	84
90th %ile	6.38	0.197	319
Max (100th %ile)	7.55	0.481	340

### 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
3-Oct-23	0.22	0.019	11	14-Oct-23
31-Oct-23	0.22	0.015	12	

### 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
3-Oct-23	0.21	0.028	8	14-Oct-23
31-Oct-23	0.2	0.026	4	

### 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	8	8	8
Min	0.12	0.004	2
Mean	0.19	0.011	24
Median (50th %ile)	0.18	0.010	14
90th %ile	0.24	0.016	53
Max (100th %ile)	0.27	0.019	80

### 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	8	8	8
Min	0.16	0.006	4
Mean	0.20	0.015	44
Median (50th %ile)	0.21	0.014	21
90th %ile	0.24	0.027	101
Max (100th %ile)	0.25	0.028	200

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
3-Oct-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (2'000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)
31-Oct-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (2'900 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3 (Prior to finishing pond)

### EPA Licence Point Map

