

## Moruya Sewage Treatment Plant - Monthly Result Summary - December 2024



Anniversary Date: 1-Apr-24  
Published Date: 8-Jan-25

Licensee: Eurobodalla Shire Council  
EPL No.: 1614  
Premises: Moruya Sewage Treatment Plant  
Address: Queen Street, Moruya, NSW 2537

Licence Period: 1-Apr-24 to 31-Mar-25

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-24**

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	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
17-Dec-24	<2	<5	7.10	3.00	14.22	450	7.86	0.31	0.58	28-Dec-24
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	10	10	10	10	10	10	10	10	10
Min	<2	<5	6.90	<2	0.70	450	6.25	0.187	0.01
Mean	2.60	2.50	7.12	4.00	6.26	34725	10.25	0.276	0.09
Median (50th %ile)	2.00	2.50	7.10	4.00	4.30	35000	9.36	0.254	0.04
90th %ile	5.10	2.50	7.31	6.30	14.68	70100	15.21	0.404	0.13
Max (100th %ile)	6.00	<5	7.40	9.00	18.80	89000	16.20	0.427	0.58

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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-24	43.2	735.0	NO
2-Dec-24	0	634.0	NO
3-Dec-24	0	574.0	NO
4-Dec-24	0	543.0	NO
5-Dec-24	0	568.0	NO
6-Dec-24	0	512.0	NO
7-Dec-24	3.6	524.0	NO
8-Dec-24	3.6	485.0	NO
9-Dec-24	0	564.0	NO
10-Dec-24	0	552.0	NO
11-Dec-24	2.8	507.0	NO
12-Dec-24	0	529.0	NO
13-Dec-24	0	487.0	NO
14-Dec-24	0	471.0	NO
15-Dec-24	0	463.0	NO
16-Dec-24	0	503.0	NO
17-Dec-24	0	751.0	NO
18-Dec-24	0	600.0	NO
19-Dec-24	0	531.0	NO
20-Dec-24	0	427.0	NO
21-Dec-24	0	446.0	NO
22-Dec-24	0	459.0	NO
23-Dec-24	0	552.0	NO
24-Dec-24	0	493.0	NO
25-Dec-24	0	420.0	NO
26-Dec-24	0	492.0	NO
27-Dec-24	0	565.0	NO
28-Dec-24	0	565.0	NO
29-Dec-24	0	586.0	NO
30-Dec-24	0	629.0	NO
31-Dec-24	0	647.0	NO
Monthly Total	53.2	16814.0	
Monthly Minimum	0	420	
Monthly Mean	1.72	542.39	
Monthly Maximum	43.2	751	
Year to Date Total	523.3	204355.0	
Year to Date Minimum	0.0	144.0	
Year to Date Mean	1.90	743.11	
Year to Date Maximum	89.8	6035.0	

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### Licence Point 7 (MO807) - 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
17-Dec-24	0.28	0.021	170	28-Dec-24

### Licence Point 8 (MO808) - 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
17-Dec-24	0.25	0.022	39	28-Dec-24

### 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	0.28	0.021	170
Mean	2.98	0.066	424
Median (50th %ile)	1.48	0.064	385
90th %ile	7.40	0.106	680
Max (100th %ile)	11.00	0.146	680

### 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	0.25	0.015	39
Mean	2.05	0.054	390
Median (50th %ile)	0.74	0.034	315
90th %ile	4.33	0.128	616
Max (100th %ile)	6.70	0.130	1300

### Licence Point 9 (MO809) - 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
17-Dec-24	0.22	0.014	2700	28-Dec-24

### Licence Point 10 (MO810) - 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
17-Dec-24	0.26	0.017	220	28-Dec-24

### 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	0.15	0.009	9
Mean	0.31	0.016	325
Median (50th %ile)	0.22	0.013	40
90th %ile	0.55	0.019	423
Max (100th %ile)	0.84	0.049	2700

### 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	0.19	0.011	4
Mean	0.42	0.025	190
Median (50th %ile)	0.25	0.017	12
90th %ile	0.68	0.035	336
Max (100th %ile)	1.58	0.097	1200

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### Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
17-Dec-24	Concentration Limit	Faecal Coliforms	Faecal Coliform result (450 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3 (Prior to finishing pond) Post finishing pond actual discharge results to Ryan's Creek (MO818) = <1 CFU/100mL.

### EPA Licence Point Map

