

Tomakin Sewage Treatment Plant - Monthly Result Summary - February 2023



Anniversary Date: 1-Apr-21
Published Date: 13-Mar-23

Licensee: Eurobodalla Shire Council
EPL No.: 2851
Premises: Tomakin Sewage Treatment Plant
Address: George Bass Drive, Tomakin, NSW 2537
Licence Period: 01-Apr-21 to 31-Mar-22
EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=183819&SYSUID=1&LICID=2851>
POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: **Feb-23**

Licence Point 1 - Discharge to Waters - Point 1 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)	8	10
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 Point 1 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	Special Frequency 2*	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
7-Feb-23						460				20-Feb-23
14-Feb-23						3000				17-Feb-23
21-Feb-23	<2	<5	7.20	6.00	55.80	570	1.69	9.96	0.37	3-Mar-23
28-Feb-23						690				6-Mar-23
100 Percentile Exceedance?	NO	NO	NO	NO	NO	YES	NO	NO	NO	

* Special Frequency 2: at least weekly during the months of November, December, January, February and March

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	12	12	12	12	12	25	12	12	12
Min	<2	<5	7.10	<2	0.70	10	1.35	4.100	0.07
Mean	2.33	2.50	7.30	3.25	19.83	709	4.30	6.328	0.45
Median (50th %ile)	2.00	2.50	7.30	2.00	4.90	200	3.66	6.010	0.32
90th %ile	4.00	2.50	7.40	6.00	52.83	2640	8.64	9.086	0.96
Max (100th %ile)	5.00	<5	7.40	12.00	115.40	4300	9.98	9.960	1.06

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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-Feb-23	0	1238.7	NO
2-Feb-23	4.5	1230.1	NO
3-Feb-23	0	1219.8	NO
4-Feb-23	0	1142.3	NO
5-Feb-23	0	1288.6	NO
6-Feb-23	0	1195.7	NO
7-Feb-23	0	1318.4	NO
8-Feb-23	1	1154.9	NO
9-Feb-23	13	1107.3	NO
10-Feb-23	21.5	2567.4	NO
11-Feb-23	0.5	1373.1	NO
12-Feb-23	0	1396.6	NO
13-Feb-23	0	1296.7	NO
14-Feb-23	0.5	1224.4	NO
15-Feb-23	0	1154.6	NO
16-Feb-23	0	1139.2	NO
17-Feb-23	0	1225.7	NO
18-Feb-23	0	1267.0	NO
19-Feb-23	1	1309.1	NO
20-Feb-23	0	1262.0	NO
21-Feb-23	0	1214.8	NO
22-Feb-23	20.5	1333.9	NO
23-Feb-23	2	1385.0	NO
24-Feb-23	0	1166.9	NO
25-Feb-23	0	1149.2	NO
26-Feb-23	0	1257.5	NO
27-Feb-23	0	1305.4	NO
28-Feb-23	0	1091.0	NO
Monthly Total	64.50	36015.24	
Monthly Minimum	0.00	1090.99	
Monthly Mean	2.30	1286.26	
Monthly Maximum	21.50	2567.44	
Year to Date Total	1118.50	537266.40	
Year to Date Minimum	0.00	997.73	
Year to Date Mean	3.35	1608.58	
Year to Date Maximum	72.00	7833.41	

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Licence Point 4 - Ambient Water Monitoring (Monthly Result)

Frequency	Special Frequency 2*	
Sampling Method	Grab Sample	
Sampled Date	Faecal Coliforms (CFU/100mL)	Obtained Date
7-Feb-23	1	20-Feb-23
14-Feb-23	63	17-Feb-23
21-Feb-23	55	3-Mar-23
28-Feb-23	1	6-Mar-23

* Special Frequency 2: at least weekly during the months of November, December, January, February and March

Licence Point 4 - Ambient Water Monitoring (Year to Date Results)

Year to Date	Faecal Coliforms (CFU/100mL)
Samples	18
Min	<1
Mean	46.39
Median (50th %ile)	1
90th %ile	80
Max (100th %ile)	490

Monthly Exceedance Report

Date	Exceedance Type	Parameter	Description / Action
7-Feb-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (460 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3.
14-Feb-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (3000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3.
21-Feb-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (570 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3.
21-Feb-23	Concentration Limit	Total Phosphorus	Total Phosphorus result (9.96 mg/L) exceeded 90 percentile concentration limit (8 mg/L) at monitoring point 3.
28-Feb-23	Concentration Limit	Faecal Coliforms	Faecal Coliform result (690 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3.

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EPA Licence Point Map

