

Narooma Sewage Treatment Plant - Monthly Result Summary - November 2023



Anniversary Date: 1-Apr-23
Published Date: 18-Dec-23

Licensee: Eurobodalla Shire Council

EPL No.: 1398

Premises: Narooma Sewage Treatment Plant

Address: Lakeside Drive, Narooma, NSW 2546

Licence Period: 01-Apr-23 to 31-Mar-24

EPL Link: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=206031&SYSUID=1&LICID=1398>

POEO Public Register: <https://apps.epa.nsw.gov.au/prpoeoapp/>

Required Month: **Nov-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	25
Chlorophyll a	(mg/m3)	-	-
Faecal Coliforms	(CFU/100mL)	200	600
Total Nitrogen	(mg/L)	15	20
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	6 Times Per Year	6 Times Per Year	6 Times Per Year	6 Times Per Year	6 Times Per Year	6 Times Per Year	6 Times Per Year	6 Times Per Year	
Sampling Method	Composite Sample	Grab Sample	Grab Sample	Composite Sample	Grab Sample	Composite Sample	Composite Sample	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)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	Obtained Date
28-Nov-23	<2	<5	9.00	2.00	2.60	1.40	4.48	0.06	12-Dec-23
100 Percentile Exceedance?	NO	NO	YES	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)	Total Nitrogen (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)
Samples	9	9	9	9	9	9	9	9
Min	<2	<5	7.40	<2	0.10	1.40	4.480	0.06
Mean	1.22	2.50	8.00	1.67	2.51	4.37	6.789	0.64
Median (50th %ile)	1.00	2.50	7.90	1.00	1.70	2.37	6.500	0.15
90th %ile	1.40	2.50	8.84	3.00	4.40	10.28	9.032	1.14
Max (100th %ile)	3.00	<5	9.00	3.00	10.00	10.60	10.600	4.60

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Licence Point 2 - Influent Volume Monitoring

Sample Frequency	Daily (Continuous)	Maximum Daily flow (kl)	20000
Sampling Method	Ultrasonic Flow Meter		
Sample Date	Rainfall (mm)	Plant Inflow (kl)	Exceedance (YES/NO)
1-Nov-23	0	1415.6	NO
2-Nov-23	0	1313.4	NO
3-Nov-23	0	1233.3	NO
4-Nov-23	2.8	1322.7	NO
5-Nov-23	1.2	1348.7	NO
6-Nov-23	0	1432.5	NO
7-Nov-23	0	1407.4	NO
8-Nov-23	0	1321.5	NO
9-Nov-23	0	1343.8	NO
10-Nov-23	0	1393.0	NO
11-Nov-23	0	1450.2	NO
12-Nov-23	0	1387.6	NO
13-Nov-23	0	1328.6	NO
14-Nov-23	1.6	1407.5	NO
15-Nov-23	1	1322.7	NO
16-Nov-23	2.4	1286.7	NO
17-Nov-23	0	1386.0	NO
18-Nov-23	0	1427.0	NO
19-Nov-23	0	1389.9	NO
20-Nov-23	3.6	1346.0	NO
21-Nov-23	1.4	1374.3	NO
22-Nov-23	0	1347.6	NO
23-Nov-23	5.2	1359.1	NO
24-Nov-23	3.2	1383.2	NO
25-Nov-23	16.2	1642.0	NO
26-Nov-23	0.2	1485.9	NO
27-Nov-23	19.8	1533.8	NO
28-Nov-23	29.8	2213.2	NO
29-Nov-23	83.8	8119.8	NO
30-Nov-23	9.8	3770.8	NO
Monthly Total	182.00	51493.67	
Monthly Minimum	0.00	1233.28	
Monthly Mean	6.07	1716.46	
Monthly Maximum	83.80	8119.84	
Year to Date Total	459.40	376594.99	
Year to Date Minimum	0.00	1226.00	
Year to Date Mean	1.88	1543.42	
Year to Date Maximum	83.80	9030.91	

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Licence Point 3 - Ambient Water Monitoring (Monthly Result)		
Frequency	Special Frequency 2*	
Sampling Method	Grab Sample	
Sampled Date	Faecal Coliforms (CFU/100mL)	Obtained Date
7-Nov-23	62	11-Nov-23
14-Nov-23	36	24-Nov-23
21-Nov-23	3400	25-Nov-23
28-Nov-23	2700	12-Dec-23

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-Nov-23	<1	11-Nov-23
14-Nov-23	<1	24-Nov-23
21-Nov-23	17	25-Nov-23
28-Nov-23	<1	12-Dec-23

Licence Point 5 - Ambient Water Monitoring (Monthly Result)		
Frequency	Special Frequency 2*	
Sampling Method	Grab Sample	
Sampled Date	Faecal Coliforms (CFU/100mL)	Obtained Date
7-Nov-23	<1	11-Nov-23
14-Nov-23	3	24-Nov-23
21-Nov-23	2	25-Nov-23
28-Nov-23	3	12-Dec-23

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

Licence Point 3 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	4
Min	36
Mean	1549.50
Median (50th %ile)	1381
90th %ile	3190
Max (100th %ile)	3400

Licence Point 4 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	4
Min	<1
Mean	4.25
Median (50th %ile)	0
90th %ile	11.9
Max (100th %ile)	17

Licence Point 5 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	4
Min	<1
Mean	2
Median (50th %ile)	2.5
90th %ile	3
Max (100th %ile)	3

Monthly Exceedance Report			
Date	Exceedance Type	Parameter	Description / Action
21-Nov-23	Concentration limits	Faecal Coliforms	Faecal Coliforms (3400 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3
28-Nov-23	Concentration limits	pH	pH (9.0) exceeded 100 percentile concentration limit (6.5-8.5) at monitoring point 3
28-Nov-23	Concentration limits	Faecal Coliforms	Faecal Coliforms (2700 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3

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EPA Licence Point Map

