

Narooma Sewage Treatment Plant - Monthly Result Summary - March 2023



Anniversary Date: 1-Apr-21
Published Date: 8-May-23

Licensee: Eurobodalla Shire Council
EPL No.: 1398
Premises: Narooma Sewage Treatment Plant
Address: Lakeside Drive, Narooma, NSW 2546
Licence Period: 01-Apr-21 to 31-Mar-22
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: **Mar-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 Sampling Method	6 Times Per Year Composite Sample	6 Times Per Year Grab Sample	6 Times Per Year Grab Sample	6 Times Per Year Composite Sample	6 Times Per Year Grab Sample	Special Frequency 2* Grab Sample	6 Times Per Year Composite Sample	6 Times Per Year Composite Sample	6 Times Per Year Grab Sample	Obtained Date
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)	
7-Mar-23						340				16-Mar-23
14-Mar-23						7100				14-Mar-23
21-Mar-23	4.00	<5	7.20	6.00	38.20	3000	12.00	8.70	3.50	30-Mar-23
28-Mar-23						1200				1-Apr-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	13	13	13	13	13	29	13	13	13
Min	<2	<5	7.00	<2	0.50	7	1.50	1.750	0.07
Mean	2.38	2.50	7.42	3.62	7.74	557	5.65	5.738	0.67
Median (50th %ile)	2.00	2.50	7.40	2.00	5.10	69	3.91	5.740	0.30
90th %ile	4.00	2.50	7.76	5.80	10.18	976	11.50	8.604	1.18
Max (100th %ile)	4.00	<5	7.80	17.00	38.20	7100	14.30	9.480	3.50

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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-Mar-23	0.6	1562.4	NO
2-Mar-23	0.4	1557.3	NO
3-Mar-23	0.4	1573.0	NO
4-Mar-23	0.2	1601.4	NO
5-Mar-23	0.2	1618.3	NO
6-Mar-23	0.4	1578.0	NO
7-Mar-23	0	1492.3	NO
8-Mar-23	0	1464.9	NO
9-Mar-23	0	1464.8	NO
10-Mar-23	0	1238.8	NO
11-Mar-23	0	1371.1	NO
12-Mar-23	0	1536.2	NO
13-Mar-23	1.4	1553.7	NO
14-Mar-23	0.2	1536.2	NO
15-Mar-23	3.6	1632.6	NO
16-Mar-23	1.4	1462.1	NO
17-Mar-23	0.2	1536.2	NO
18-Mar-23	0	1438.0	NO
19-Mar-23	0	1467.6	NO
20-Mar-23	0	1467.6	NO
21-Mar-23	0	1440.9	NO
22-Mar-23	0	1365.0	NO
23-Mar-23	0.2	1475.7	NO
24-Mar-23	0	1411.8	NO
25-Mar-23	0	1876.5	NO
26-Mar-23	0.2	1575.9	NO
27-Mar-23	0.2	1575.9	NO
28-Mar-23	18.8	1467.6	NO
29-Mar-23	6	1929.4	NO
30-Mar-23	0	1904.1	NO
31-Mar-23	0	1564.1	NO
Monthly Total	34.40	47739.35	
Monthly Minimum	0.00	1238.80	
Monthly Mean	1.11	1539.98	
Monthly Maximum	18.80	1929.44	
Year to Date Total	1118.70	723605.16	
Year to Date Minimum	0.00	877.68	
Year to Date Mean	3.06	1982.48	
Year to Date Maximum	104.80	10515.43	

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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-Mar-23	25	16-Mar-23
14-Mar-23	370	14-Mar-23
21-Mar-23	40	30-Mar-23
28-Mar-23	<1	1-Apr-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-Mar-23	<1	16-Mar-23
14-Mar-23	2800	14-Mar-23
21-Mar-23	1	30-Mar-23
28-Mar-23	4	1-Apr-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	22
Min	<1
Mean	29.55
Median (50th %ile)	2
90th %ile	2
Max (100th %ile)	370

Licence Point 5 - Ambient Water Monitoring (Year to Date Results)	
Year to Date	Faecal Coliforms (CFU/100mL)
Samples	22
Min	<1
Mean	132.23
Median (50th %ile)	3
90th %ile	3
Max (100th %ile)	2800

Monthly Exceedance Report			
Date	Exceedance Type	Parameter	Description / Action
7-Mar-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (340 CFU/100mL) exceeded 90 percentile concentration limit (200 CFU/100mL) at monitoring point 3
14-Mar-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (7100 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3
21-Mar-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (3000 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3
21-Mar-23	Concentration limit	Total Phosphorus	Total Phosphorus result (8.70 mg/L) exceeded 90 percentile concentration limit (8.0 mg/L) at monitoring point 3
21-Mar-23	Concentration limit	Ammonia	Ammonia result (3.5 mg/L) exceeded 90 percentile concentration limit (2.0 mg/L) at monitoring point 3
28-Mar-23	Concentration limit	Faecal Coliforms	Faecal Coliforms result (1200 CFU/100mL) exceeded 100 percentile concentration limit (600 CFU/100mL) at monitoring point 3

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EPA Licence Point Map

