



North End Water Pollution Control Centre
Final Effluent Monitoring Report
December 2023

Licence # 2684 RRR	File # 1071.1	24 Hour Composite							Grab Sample			
Date	Raw Sewage Daily Flow	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
	ML	(mg/L)	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
01-Dec-23	152.7	12	20	8	4,399	3.43	3.13	33.5	16.1	6.64	30	80
02-Dec-23	149.8	13	19	8	4,510	3.53	3.08	33.2	16.1	6.76	40	80
03-Dec-23	147.6	11	23	8	4,385	3.62	3.03	33.0	16.1	6.77	20	30
04-Dec-23	148.8	12	18	8	4,121	3.55	3.03	32.7	16.1	6.74	30	60
05-Dec-23	142.7	15	17	8	3,852	3.68	3.06	32.6	15.6	6.81	30	60
06-Dec-23	143.0	12	16	9	4,219	3.85	3.18	33.0	16.3	6.75	80	130
07-Dec-23	144.2	15	21	9	4,095	3.59	3.28	33.3	16.5	6.68	340	340
08-Dec-23	150.4	13	19	9	4,467	3.82	3.40	33.8	16.5	6.84	80	200
09-Dec-23	143.5	13	20	9	4,189	3.94	3.51	34.4	15.9	6.73	330	500
10-Dec-23	139.0	15	21	10	4,072	nr	3.65	34.7	15.9	6.71	120	180
11-Dec-23	140.1	16	23	11	4,372	nr	3.77	35.1	16.1	6.70	310	410
12-Dec-23	141.0	17	21	9	4,837	nr	3.87	35.6	15.9	6.77	340	420
13-Dec-23	141.2	16	21	10	4,843	nr	3.99	36.4	15.9	6.78	190	340
14-Dec-23	142.9	16	29	11	4,960	nr	4.08	37.1	16.3	6.83	230	230
15-Dec-23	140.9	13	24	10	4,692	nr	4.14	37.6	16.1	6.74	260	200
16-Dec-23	139.0	16	32	11	4,851	nr	4.24	38.1	16.1	6.75	190	230
17-Dec-23	135.7	16	29	11	4,926	>4.00	4.35	38.5	16.0	6.73	240	340
18-Dec-23	141.4	18	30	10	5,432	5.02	4.45	38.6	15.3	6.82	340	490
19-Dec-23	141.2	16	27	10	5,406	>4.00	4.57	38.8	15.6	6.70	840	1,210
20-Dec-23	140.2	16	nr	nr	4,851	3.98	4.65	39.4	15.8	6.71	360	460
21-Dec-23	142.6	17	22	7	4,818	4.05	4.71	39.8	16.1	6.73	340	330
22-Dec-23	141.5	12	23	11	5,011	3.78	4.77	40.4	15.9	6.74	30	150
23-Dec-23	148.0	15	25	11	5,226	4.08	4.83	40.9	16.0	6.69	100	80
24-Dec-23	181.8	20	30	12	5,254	2.94	4.82	41.1	15.6	6.66	60	90
25-Dec-23	129.6	17	21	7	3,436	3.39	4.86	41.1	14.9	6.66	50	120
26-Dec-23	125.6	18	25	9	4,482	4.24	4.94	41.4	15.0	6.68	10	10
27-Dec-23	137.1	12	25	9	5,126	3.87	5.02	41.9	15.6	6.77	<10	<10
28-Dec-23	136.6	17	23	11	5,491	2.90	5.03	42.3	15.5	6.77	150	290
29-Dec-23	139.1	13	26	9	4,924	2.56	5.02	42.6	15.7	6.77	10	10
30-Dec-23	136.2	14	25	9	4,862	1.72	4.98	42.9	15.3	6.71	110	160
31-Dec-23	135.6	17	25	8	4,202	1.55	4.91	43.1	15.2	6.71	100	130
Max:	181.8											
Min:	125.6											
Average:	142.5	15	23	9	4,655	3.55			15.8	6.74		
Total Flow:	4,419.0											
Geo.Mean:											96	141

Notes:

(1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations

(2) nr - not recorded or no result; na - not analyzed; ns - no sample; o/l - offline; im - instrument maintenance

(3) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the

(4) Where value is expressed as less than (<), the value is halved and used in the calculations

(5) * = 30 day rolling average