

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data**

March 2020

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent 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	
1-Mar-20	126.1	14	25	7	4,892	0.97	1.8	47.0	13.2	6.81	20	20		
2-Mar-20	128.0	13	19	6	4,597	0.74	1.8	47.1	13.3	6.75	30	50		
3-Mar-20	133.3	12	20	6	5,225	1.09	1.8	47.2	13.2	6.88	10	10		
4-Mar-20	132.6	12	22	6	5,198	1.14	1.8	47.3	13.3	6.72	10	30		
5-Mar-20	142.4	15	19	5	5,511	1.15	1.8	47.3	13.4	6.79	40	10		
6-Mar-20	134.4	11	15	4	5,121	0.84	1.8	47.4	13.0	6.80	1,380	1,790		
7-Mar-20	206.2	40	22	14	7,258	0.86	1.8	47.2	13.2	6.81	90	110		
8-Mar-20	140.0	7	19	6	3,584	0.19	1.7	46.6	11.0	7.05	740	860		
9-Mar-20	133.3	9	15	5	4,185	0.33	1.7	46.3	12.2	6.88	160	150		
10-Mar-20	139.9	13	21	6	5,497	0.39	1.7	46.4	12.8	6.87	60	210		
11-Mar-20	182.2	41	25	9	6,541	0.69	1.6	46.4	13.0	6.91	410	330		
12-Mar-20	143.0	12	20	5	4,060	0.32	1.6	45.8	11.7	6.77	880	1,050		
13-Mar-20	138.5	9	18	5	5,318	0.56	1.6	45.4	12.2	6.79	400	350		
14-Mar-20	127.6	10	10	4	4,937	0.94	1.5	44.9	12.6	6.75	280	340		
15-Mar-20	130.0	9	13	4	4,953	1.02	1.5	44.5	12.7	6.96	430	390		
16-Mar-20	132.4	10	21	5	4,543	2.10	1.5	44.4	13.0	6.72	230	290		
17-Mar-20	132.2	12	21	7	5,540	1.04	1.5	44.4	13.1	7.00	240	310		
18-Mar-20	129.7	10	22	6	4,995	1.12	1.5	44.3	12.8	6.86	190	360		
19-Mar-20	126.0	11	28	6	4,536	1.03	1.6	44.6	12.8	6.79	100	170		
20-Mar-20	130.8	12	20	6	5,234	1.13	1.6	44.6	12.8	6.95	360	360		
21-Mar-20	131.5	13	11	7	5,206	1.02	1.6	44.5	12.8	6.88	300	250		
22-Mar-20	127.6	15	33	8	4,606	0.83	1.5	44.5	12.9	6.83	300	290		
23-Mar-20	219.1	55	56	27	6,572	0.85	1.5	44.5	13.1	6.78	100	120		
24-Mar-20	244.1	47	58	20	5,443	0.39	1.5	44.4	10.8	6.98	50	70		
25-Mar-20	227.6	38	36	23	5,121	0.51	1.5	44.3	9.8	7.04	190	290		
26-Mar-20	218.9	44	31	20	5,232	0.83	1.5	44.0	10.6	6.84	480	520		
27-Mar-20	313.9	77	49	34	5,775	0.78	1.5	43.5	10.7	6.81	120	120		
28-Mar-20	303.5	59	29	21	5,160	0.67	1.5	42.9	9.4	6.90	110	150		
29-Mar-20	253.7	23	17	12	4,440	0.45	1.5	42.3	9.4	7.06	100	170		
30-Mar-20	254.5	22	18	12	4,758	0.66	1.5	41.7	10.2	6.88	100	90		
31-Mar-20	277.7	19	17	11	5,081	0.64	1.5	40.9	10.3	6.82	50	20		
Max:	313.9													
Min:	126.0													
Average:	172.9	22	24	10	5,133	0.81			12.1	6.86				
Total Flow:	5,360.5													
Geo.Mean:											140	161		

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
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) * = 30 day rolling average
- (5) 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 plant