

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
April 2021**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(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-Apr-21	140.5	26	34	12	5,592	3.10	3.3	44.3	13.5	6.82	20	10		
2-Apr-21	129.5	19	34	11	4,895	3.67	3.4	44.5	14.1	6.78	10	40		
3-Apr-21	126.5	25	35	11	5,036	3.76	3.5	44.7	14.4	6.79	10	20		
4-Apr-21	127.9	27	37	13	4,783	3.87	3.6	44.9	14.6	6.81	360	80		
5-Apr-21	138.3	25	39	14	5,516	3.55	3.6	45.3	14.7	6.81	130	130		
6-Apr-21	140.6	25	36	13	5,918	3.44	3.7	46.1	14.8	6.74	150	170		
7-Apr-21	137.9	27	45	13	5,835	3.43	3.8	47.1	15.3	6.80	200	340		
8-Apr-21	154.3	64	58	32	5,478	4.06	3.9	48.1	14.9	6.74	300	310		
9-Apr-21	286.6	34	39	15	5,703	1.87	4.0	48.2	11.3	6.93	80	100		
10-Apr-21	146.3	17	20	11	4,580	2.83	4.0	48.0	12.8	6.81	160	200		
11-Apr-21	140.8	19	24	12	4,815	3.71	4.0	47.8	13.8	6.80	<10	20		
12-Apr-21	272.9	64	34	25	7,451	3.30	4.0	47.4	13.4	6.70	<10	50		
13-Apr-21	171.7	24	18	11	4,498	1.81	3.9	46.9	10.7	6.96	20	20		
14-Apr-21	219.0	37	25	16	5,935	2.54	3.9	46.3	14.1	6.82	40	10		
15-Apr-21	238.7	36	28	17	5,370	2.01	3.9	45.8	11.7	6.79	20	10		
16-Apr-21	237.3	42	22	16	5,316	0.13	3.8	45.1	12.0	6.85	30	10		
17-Apr-21	186.9	28	26	16	4,523	2.88	3.8	44.4	12.3	6.74	260	370		
18-Apr-21	205.1	28	32	16	5,680	1.82	3.7	43.9	12.3	6.92	60	100		
19-Apr-21	162.8	21	29	14	5,079	1.52	3.7	43.5	12.4	6.81	10	10		
20-Apr-21	156.8	24	27	12	5,315	2.18	3.7	43.3	12.9	6.92	90	120		
21-Apr-21	158.0	13	30	12	6,100	2.73	3.7	43.4	13.7	6.81	110	80		
22-Apr-21	151.4	21	32	12	5,814	2.97	3.7	43.3	13.9	6.87	<10	30		
23-Apr-21	155.9	20	25	10	6,190	2.44	3.6	43.3	14.0	6.89	40	50		
24-Apr-21	142.8	19	24	11	5,856	2.34	3.6	43.2	13.7	6.84	20	20		
25-Apr-21	142.3	20	24	11	5,621	3.22	3.6	43.5	13.7	6.90	30	30		
26-Apr-21	139.2	18	23	9	5,289	2.72	3.7	43.9	14.1	6.73	30	50		
27-Apr-21	143.7	21	21	9	5,431	3.64	3.7	44.3	14.3	6.91	20	10		
28-Apr-21	136.6	20	24	10	5,872	3.47	3.7	44.7	14.4	6.89	60	80		
29-Apr-21	141.0	17	23	10	6,090	3.38	3.8	45.0	14.3	6.95	100	20		
30-Apr-21	137.1	17	20	7	6,033	3.68	3.8	44.9	14.3	6.79	50	20		
Max:	286.6													
Min:	126.5													
Average:	165.6	27	30	13	5,521	2.87			13.5	6.83				
Total Flow:	4,968.4													
Geo.Mean:											42	45		

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