

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

June 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 NH ₃ -N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jun-21	155.8	27	26	9	5,531	3.76	4.4	45.7	15.6	6.97	880	1,080		
2-Jun-21	153.8	24	27	11	5,630	3.92	4.4	45.7	16.3	7.04	1,010	1,500		
3-Jun-21	163.8	31	25	13	5,519	3.44	4.4	45.7	16.2	6.91	720	710		
4-Jun-21	154.3	29	22	12	5,710	3.98	4.4	45.8	17.1	6.81	40	40		
5-Jun-21	148.2	40	30	16	5,351	3.99	4.4	45.9	16.9	6.97	220	210		
6-Jun-21	221.8	37	29	17	5,279	2.42	4.4	45.4	16.6	6.93	2,010	2,100		
7-Jun-21	149.3	23	22	12	4,315	3.18	4.4	45.1	17.1	6.83	150	330		
8-Jun-21	148.5	48	30	22	5,374	3.94	4.4	45.0	17.3	6.83	100	100		
9-Jun-21	491.2	87	41	34	7,418	1.37	4.4	44.0	17.8	6.74	>24,200	>24,200		
10-Jun-21	285.5	25	10	7	5,139	1.81	4.3	43.3	17.8	6.99	20	40		
11-Jun-21	204.0	21	9	7	5,284	2.26	4.2	42.9	17.1	6.97	40	20		
12-Jun-21	173.7	23	27	4	4,846	2.61	4.2	42.7	17.0	6.94	40	10		
13-Jun-21	165.8	18	18	9	4,873	2.76	4.2	42.5	16.7	6.99	30	10		
14-Jun-21	165.8	19	17	9	4,989	3.14	4.1	42.4	17.1	6.97	50	40		
15-Jun-21	162.9	17	12	8	4,969	3.26	4.1	42.4	17.4	6.94	30	40		
16-Jun-21	162.5	19	14	10	5,021	3.33	4.1	42.1	17.7	6.79	50	50		
17-Jun-21	165.2	21	14	9	6,030	4.06	4.1	41.9	17.3	6.82	20	50		
18-Jun-21	149.4	16	14	9	5,915	3.75	4.0	41.8	17.4	6.87	260	250		
19-Jun-21	139.0	18	18	11	4,782	3.63	4.0	41.7	17.6	6.88	300	250		
20-Jun-21	143.7	17	22	9	4,741	3.52	3.9	41.4	17.6	6.90	120	240		
21-Jun-21	147.5	18	22	8	4,218	3.38	4.0	41.7	17.5	6.89	30	50		
22-Jun-21	150.5	20	21	9	5,507	5.70	4.2	42.4	17.2	6.92	290	340		
23-Jun-21	149.5	15	24	7	4,710	5.42	4.3	42.9	18.0	6.80	30	80		
24-Jun-21	149.4	19	30	11	5,289	4.51	4.4	43.2	18.6	6.95	300	430		
25-Jun-21	151.9	20	36	11	5,743	4.52	4.4	43.5	18.5	6.84	30	10		
26-Jun-21	143.2	21	36	11	5,155	4.55	4.5	43.9	18.5	6.84	280	210		
27-Jun-21	140.2	17	31	10	4,611	4.99	4.6	44.0	18.6	6.88	160	250		
28-Jun-21	147.1	17	27	10	4,119	3.65	4.6	44.0	18.7	6.88	430	240		
29-Jun-21	147.6	19	25	8	4,752	4.40	4.6	44.0	18.8	6.86	180	60		
30-Jun-21	152.2	23	28	8	5,435	4.35	4.7	44.1	19.1	6.72	10	20		
Max:	491.2													
Min:	139.0													
Average:	172.8	25	24	11	5,209	3.65			17.5	6.89				
Total Flow:	5,183.3													
Geo.Mean:											132	134		

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