

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

June 2020

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-Jun-20	153.4	20	31	12	4,586	3.43	4.0	38.2	15.2	6.93	3,080	3,280		
2-Jun-20	148.1	22	nr	nr	4,058	3.33	4.0	38.3	15.6	6.93	930	1,260		
3-Jun-20	159.1	24	29	16	4,868	3.19	4.1	38.8	15.7	7.17	690	1,080		
4-Jun-20	150.9	28	35	15	4,586	3.20	4.1	39.5	15.9	6.88	7,270	9,800		
5-Jun-20	150.7	26	33	14	4,763	3.31	4.1	40.0	15.7	6.87	790	500		
6-Jun-20	201.3	78	67	33	4,529	2.39	4.1	39.9	15.7	6.92	1,600	1,550		
7-Jun-20	356.4	45	25	13	4,205	0.93	4.1	39.1	14.3	6.94	1,410	1,260		
8-Jun-20	274.5	16	15	6	4,282	1.35	4.0	38.4	15.9	6.94	240	280		
9-Jun-20	181.4	21	16	9	4,697	2.42	4.0	38.2	15.9	6.98	60	70		
10-Jun-20	200.3	11	12	8	5,008	2.30	4.0	38.1	15.6	6.99	150	110		
11-Jun-20	173.6	14	15	8	4,879	2.52	3.9	37.8	15.8	6.95	80	110		
12-Jun-20	165.9	13	16	8	4,762	2.62	3.9	37.6	15.5	6.96	120	210		
13-Jun-20	156.8	16	15	8	4,626	2.85	3.9	37.8	15.7	6.91	100	190		
14-Jun-20	156.6	13	17	8	4,337	2.98	3.9	37.4	15.9	6.93	30	100		
15-Jun-20	162.5	12	17	7	4,321	2.92	3.9	36.9	16.4	6.92	40	110		
16-Jun-20	163.6	16	18	8	4,353	2.97	3.9	36.5	16.7	6.91	230	210		
17-Jun-20	234.3	88	59	33	5,624	2.55	3.9	35.8	17.1	6.88	340	420		
18-Jun-20	279.9	14	18	8	5,010	1.11	3.8	35.3	18.7	6.81	500	690		
19-Jun-20	169.7	14	14	6	4,701	2.20	3.8	35.2	17.1	6.94	960	910		
20-Jun-20	305.6	33	36	22	5,500	1.69	3.7	34.6	16.7	6.86	160	120		
21-Jun-20	278.8	14	13	5	3,931	1.08	3.6	33.6	16.4	6.96	960	1,150		
22-Jun-20	186.3	15	nr	nr	4,023	2.08	3.6	33.2	16.6	6.94	250	150		
23-Jun-20	254.5	31	33	16	5,115	1.85	3.6	33.3	16.7	6.89	910	910		
24-Jun-20	185.0	12	15	5	3,405	1.54	3.6	32.9	17.4	6.85	220	200		
25-Jun-20	194.4	62	51	31	4,315	2.64	3.5	32.6	17.4	6.88	150	170		
26-Jun-20	378.4	11	nr	nr	5,335	1.00	3.5	32.0	18.1	6.90	2,250	3,450		
27-Jun-20	186.6	13	11	6	4,292	0.94	3.4	31.7	17.8	6.89	930	960		
28-Jun-20	171.6	9	14	6	4,239	1.16	3.3	31.5	17.6	6.84	140	110		
29-Jun-20	168.1	7	19	5	4,085	1.64	3.2	31.1	17.7	7.02	80	110		
30-Jun-20	180.1	52	38	21	3,547	2.13	3.1	30.9	18.0	6.83	140	140		
Max:	378.4													
Min:	148.1													
Average:	204.3	25	25	12	4,533	2.21			16.49	6.92				
Total Flow:	6,128.3										340	396		
Geo.Mean:														

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