

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

August 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-Aug-20	128.6	26	24	14	4,204	3.41	3.8	39.1	20.0	6.80	2,610	2,760		
2-Aug-20	127.5	25	26	12	4,475	3.64	3.9	39.8	19.9	6.79	6,490	9,800		
3-Aug-20	125.5	20	nr	nr	3,967	3.78	4.0	40.5	19.5	6.78	1,400	1,660		
4-Aug-20	143.3	25	nr	nr	4,485	3.99	4.1	41.2	19.6	6.77	60	160		
5-Aug-20	135.5	23	34	15	4,335	3.97	4.2	42.1	20.0	6.75	700	740		
6-Aug-20	140.5	19	31	14	4,497	3.92	4.2	42.9	20.3	6.81	10,500	10,500		
7-Aug-20	143.8	23	30	12	4,946	4.32	4.3	43.7	20.7	6.78	24,200	>24200		
8-Aug-20	129.3	19	28	9	4,176	3.94	4.3	44.2	20.5	6.77	380	450		
9-Aug-20	134.6	22	35	11	4,724	3.85	4.4	44.7	20.1	6.79	1,660	1,620		
10-Aug-20	140.9	20	31	10	5,327	4.23	4.4	45.5	20.0	6.79	5,480	2,600		
11-Aug-20	139.4	17	27	8	4,934	4.50	4.4	46.2	20.1	6.84	1,660	1,860		
12-Aug-20	137.4	16	23	7	5,001	3.66	4.5	47.5	20.4	6.80	4,610	4,880		
13-Aug-20	270.5	76	>70	>34	8,358	3.12	4.5	47.9	20.0	6.56	>24200	>24200		
14-Aug-20	321.6	83	54	>34	5,274	1.51	4.5	47.6	20.1	6.63	2,480	2,010		
15-Aug-20	231.7	13	13	6	3,522	0.97	4.4	47.2	18.7	6.80	2,100	2,050		
16-Aug-20	150.6	12	11	5	3,404	2.25	4.4	47.2	19.8	6.80	910	1,070		
17-Aug-20	157.8	12	13	5	4,182	3.19	4.4	47.6	20.0	6.67	540	470		
18-Aug-20	150.3	10	15	7	4,162	3.38	4.5	47.8	20.1	6.61	20	160		
19-Aug-20	149.6	11	16	5	4,444	3.92	4.5	48.0	20.7	6.63	160	230		
20-Aug-20	157.3	18	16	7	4,420	3.07	4.5	48.1	20.7	6.62	680	650		
21-Aug-20	153.6	20	18	8	4,116	3.73	4.4	48.3	20.9	6.60	310	250		
22-Aug-20	184.9	17	19	9	3,642	2.63	4.4	48.2	20.7	6.64	880	880		
23-Aug-20	145.8	15	17	5	3,339	2.95	4.4	47.8	20.8	6.59	170	190		
24-Aug-20	152.7	20	17	5	3,925	3.81	4.4	47.3	20.8	6.66	100	80		
25-Aug-20	142.3	16	17	5	3,741	3.32	4.4	47.1	20.8	6.66	310	280		
26-Aug-20	148.4	17	18	6	4,170	3.93	4.4	46.7	20.6	6.74	160	230		
27-Aug-20	141.2	24	25	10	4,391	4.45	4.4	46.1	20.7	6.69	380	550		
28-Aug-20	216.1	43	35	21	4,970	3.28	4.4	45.4	20.1	6.77	4,350	3,650		
29-Aug-20	132.8	18	16	6	3,426	3.82	4.3	44.7	20.2	6.69	120	200		
30-Aug-20	296.3	56	46	31	6,429	3.03	4.3	43.7	20.1	6.76	150	130		
31-Aug-20	180.2	12	12	4	2,577	2.17	4.2	42.9	19.3	6.65	200	240		
Max:	321.6													
Min:	125.5													
Average:	164.8	24	25	11	4,438	3.41			20.20	6.72				
Total Flow:	5,109.8										806	920		
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