

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

August 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-Aug-21	120.0	23	25	7	3,779	5.09	5.7	50.1	20.4	6.78	110	100		
2-Aug-21	122.4	24	21	6	3,759	5.28	5.7	49.9	20.6	6.75	50	90		
3-Aug-21	134.5	21	27	nr	4,157	5.20	5.6	49.9	20.0	6.75	50	80		
4-Aug-21	138.0	21	17	7	5,037	5.23	5.6	50.3	20.3	6.69	30	40		
5-Aug-21	140.0	22	17	7	5,251	5.05	5.5	50.7	20.7	6.74	10	50		
6-Aug-21	131.3	22	14	6	4,596	4.32	5.4	50.4	20.2	6.74	150	150		
7-Aug-21	128.4	25	16	8	5,163	5.29	5.5	50.3	20.7	6.77	120	130		
8-Aug-21	129.4	21	16	6	4,712	5.14	5.5	50.2	20.5	6.81	310	290		
9-Aug-21	296.6	40	68	44	6,911	2.70	5.4	49.3	21.5	6.70	>24,200	>24,200		
10-Aug-21	311.0	17	17	9	5,535	0.62	5.3	48.3	20.1	6.70	1,610	1,400		
11-Aug-21	221.7	13	8	4	5,387	1.66	5.2	47.9	20.1	6.77	680	650		
12-Aug-21	143.3	15	13	5	5,705	3.73	5.2	48.1	20.4	6.82	230	280		
13-Aug-21	140.7	18	17	5	6,950	4.06	5.2	48.3	20.6	6.83	140	120		
14-Aug-21	133.0	17	22	7	5,825	4.68	5.3	48.2	20.8	6.83	100	60		
15-Aug-21	131.6	20	26	8	5,370	2.88	5.3	48.3	20.7	6.78	1,080	820		
16-Aug-21	139.6	16	25	7	4,538	2.39	5.3	48.3	20.8	6.66	10	20		
17-Aug-21	144.1	23	33	7	6,397	4.19	5.3	48.4	20.7	6.76	50	10		
18-Aug-21	145.1	16	28	7	5,819	4.52	5.3	48.5	20.2	6.79	100	20		
19-Aug-21	142.0	14	27	7	8,248	3.47	5.3	48.7	20.9	7.00	240	380		
20-Aug-21	360.9	88	66	36	6,063	1.71	5.2	48.1	19.9	6.70	>24,200	>24,200		
21-Aug-21	460.6	23	18	9	3,818	0.77	5.1	47.0	18.0	6.87	3,260	2,360		
22-Aug-21	330.1	61	40	29	4,324	1.65	5.1	45.9	19.2	6.77	150	100		
23-Aug-21	315.1	15	9	5	4,317	1.73	4.9	44.7	19.0	6.94	>24,200	>24,200		
24-Aug-21	223.0	12	16	11	4,437	2.85	4.9	43.7	19.2	6.79	10	<10		
25-Aug-21	165.7	15	16	9	4,342	4.10	4.8	42.9	19.6	6.85	150	220		
26-Aug-21	152.2	17	16	8	4,109	4.46	4.8	42.2	18.9	6.77	80	90		
27-Aug-21	282.5	57	49	29	6,837	3.35	4.7	41.2	18.6	6.79	170	110		
28-Aug-21	231.4	10	12	6	2,846	1.08	4.6	39.9	18.6	6.74	370	280		
29-Aug-21	163.6	11	20	9	3,075	2.20	4.5	39.3	19.5	6.81	90	90		
30-Aug-21	158.1	12	16	8	3,398	2.75	4.4	38.8	20.1	6.80	10	<10		
31-Aug-21	151.4	15	22	9	3,633	3.38	4.4	38.4	20.2	6.77	490	480		
Max:	460.6													
Min:	120.0													
Average:	193.1	23	24	11	4,979	3.40			20.0	6.78				
Total Flow:	5,987.2										205	190		
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