

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

January 2020

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML	(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-Jan-20	118.0	16	28	10	4,011	1.52	2.2	47.2	14.7	6.78	nr	520		
2-Jan-20	128.8	22	33	11	4,251	1.35	2.2	47.6	14.8	6.78	10	20		
3-Jan-20	133.9	21	28	11	4,793	1.81	2.2	48.0	15.0	6.79	30	10		
4-Jan-20	127.5	20	23	10	4,551	1.28	2.2	48.2	15.2	6.89	930	990		
5-Jan-20	124.6	19	28	11	4,248	1.16	2.2	48.1	14.8	6.75	1,920	1,610		
6-Jan-20	128.6	17	26	10	4,359	1.32	2.1	48.0	15.0	6.84	60	60		
7-Jan-20	134.0	20	27	10	4,609	1.29	2.1	47.8	14.1	6.67	350	510		
8-Jan-20	132.3	19	21	13	4,961	1.53	2.1	47.7	14.2	6.87	20	20		
9-Jan-20	134.5	24	33	11	5,367	1.68	2.2	47.7	14.8	7.01	<10	20		
10-Jan-20	123.4	15	28	11	4,478	1.53	2.2	47.9	14.1	6.97	30	50		
11-Jan-20	123.6	25	29	11	4,474	1.58	2.2	48.2	13.8	6.87	60	160		
12-Jan-20	135.0	22	34	12	4,820	1.59	2.2	48.3	14.2	6.81	90	60		
13-Jan-20	133.5	22	30	11	4,818	0.87	2.2	48.4	15.2	6.89	700	840		
14-Jan-20	128.8	17	23	10	4,664	1.36	2.2	48.6	15.2	6.84	5,790	9,210		
15-Jan-20	127.8	26	24	11	4,946	1.65	2.2	48.6	18.7	6.91	2,760	2,220		
16-Jan-20	131.4	24	25	10	5,322	1.57	2.2	48.8	19.1	6.87	130	130		
17-Jan-20	126.7	29	36	13	5,106	1.55	2.3	49.0	13.7	6.90	150	140		
18-Jan-20	123.5	28	30	10	4,631	1.66	2.3	49.0	11.2	7.00	3,260	2,910		
19-Jan-20	130.1	23	35	11	4,580	1.71	2.3	49.0	12.9	6.88	910	1,150		
20-Jan-20	125.7	39	33	16	4,349	1.11	2.3	49.0	ns	ns	ns	ns		
21-Jan-20	129.6	27	27	11	4,639	1.26	2.4	49.3	12.9	6.75	170	110		
22-Jan-20	139.0	25	27	10	5,297	1.03	2.4	49.4	13.7	6.84	20	40		
23-Jan-20	127.9	23	40	11	4,372	1.32	2.4	49.5	13.6	6.82	180	190		
24-Jan-20	135.8	21	27	10	5,213	1.14	2.4	49.8	14.1	6.83	50	60		
25-Jan-20	131.6	21	16	9	5,013	1.28	2.4	50.0	13.7	6.84	140	110		
26-Jan-20	126.8	17	29	11	4,501	0.76	2.3	49.9	13.4	6.92	80	30		
27-Jan-20	129.5	23	28	10	4,390	0.67	2.3	49.6	14.0	6.80	10	40		
28-Jan-20	132.8	20	29	10	4,381	0.68	2.3	49.3	13.5	7.11	130	110		
29-Jan-20	135.1	25	27	9	4,959	0.87	2.2	49.0	13.6	6.82	50	70		
30-Jan-20	134.7	32	24	9	5,374	0.32	2.2	48.9	13.9	6.88	130	100		
31-Jan-20	134.7	23	17	10	5,468	0.38	2.2	49.0	13.7	6.81	220	250		
Max:	139.0													
Min:	118.0													
Average:	130.0	23	28	11	4,740	1.25			14.4	6.86				
Total Flow:	4,028.8										136	160		
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