

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

November 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-Nov-20	133.4	13	16	10	4,722	4.09	5.5	47.0	16.2	6.76	10	20		
2-Nov-20	144.9	13	14	6	5,245	3.91	5.4	46.8	17.0	6.71	5	20		
3-Nov-20	132.6	13	17	7	4,721	4.03	5.3	47.0	17.2	6.69	30	20		
4-Nov-20	137.5	14	19	9	4,948	3.83	5.3	47.3	17.5	6.76	10	10		
5-Nov-20	138.7	17	23	8	5,425	3.84	5.2	47.6	17.0	6.74	20	20		
6-Nov-20	128.6	14	20	7	4,771	3.95	5.2	48.3	17.1	6.81	50	30		
7-Nov-20	133.7	14	19	9	5,108	4.23	5.2	48.7	16.8	6.76	40	110		
8-Nov-20	131.9	14	18	9	4,867	4.11	5.2	48.9	17.1	6.73	20	70		
9-Nov-20	136.0	16	19	8	4,855	4.38	5.1	49.2	16.9	6.80	10	<10		
10-Nov-20	132.4	16	21	10	5,136	4.43	5.1	49.5	16.5	6.84	20	10		
11-Nov-20	118.3	14	18	8	4,578	4.90	5.1	50.0	16.4	6.72	60	50		
12-Nov-20	137.5	16	23	11	5,089	4.40	5.1	50.5	16.2	6.78	10	<10		
13-Nov-20	121.0	14	19	9	4,477	4.65	5.1	50.6	15.8	6.76	30	10		
14-Nov-20	136.1	15	20	10	4,884	4.77	5.1	50.6	16.1	6.83	<10	20		
15-Nov-20	128.1	14	24	12	4,213	4.60	5.1	50.6	15.9	6.79	30	10		
16-Nov-20	129.2	16	20	10	4,329	4.66	5.1	50.5	16.0	6.92	<10	10		
17-Nov-20	125.9	14	20	7	4,458	4.65	5.1	50.5	15.6	6.76	10	10		
18-Nov-20	131.5	14	19	7	4,772	5.31	5.1	50.6	15.8	6.73	20	20		
19-Nov-20	133.6	14	24	9	5,102	4.66	5.1	50.7	16.2	6.71	60	80		
20-Nov-20	128.0	15	20	na	5,119	5.00	5.1	50.7	15.8	6.75	300	440		
21-Nov-20	138.8	14	20	7	5,456	5.03	5.1	50.9	15.8	6.73	300	440		
22-Nov-20	126.5	11	20	9	4,388	4.64	5.1	50.9	15.4	6.69	10,500	11,200		
23-Nov-20	121.9	15	17	8	4,548	4.40	5.2	50.8	15.5	6.79	20	30		
24-Nov-20	145.8	ns	ns	ns	ns	ns	5.3	50.8	15.3	6.71	100	150		
25-Nov-20	127.4	ns	ns	ns	ns	ns	5.3	51.0	15.2	6.72	100	140		
26-Nov-20	141.5	23	14	10	5,532	4.91	5.3	50.8	15.6	6.78	50	50		
27-Nov-20	119.2	18	9	7	4,614	4.61	5.4	50.7	15.5	6.76	10	10		
28-Nov-20	134.0	14	9	6	5,441	4.89	5.4	51.0	15.6	6.70	<10	10		
29-Nov-20	124.8	16	11	7	4,981	4.74	5.4	50.6	15.4	6.73	150	190		
30-Nov-20	124.4	21	11	5	4,890	4.47	5.4	50.7	15.6	7.04	30	40		
Max:	145.8													
Min:	118.3													
Average:	131.4	15	18	8	4,881	4.50			16.1	6.77				
Total Flow:	3,943.2													
Geo.Mean:											31	37		

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