

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

October 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-Oct-21	136.9	27	25	15	5,708	0.33	5.3	47.1	20.6	6.54	1,380	1,870		
2-Oct-21	134.4	14	33	9	5,039	2.57	5.2	47.6	20.7	6.75	8,160	4,880		
3-Oct-21	130.1	10	38	7	4,644	4.06	5.2	47.6	20.1	6.73	120	50		
4-Oct-21	137.0	11	37	7	4,713	4.43	5.3	47.5	20.2	na	<10	30		
5-Oct-21	133.7	10	40	6	4,400	4.49	5.3	47.8	20.2	6.75	20	<10		
6-Oct-21	135.8	14	46	7	5,091	5.09	5.3	48.2	20.4	6.81	30	20		
7-Oct-21	133.1	12	37	5	5,099	4.90	5.3	48.8	20.4	6.78	50	40		
8-Oct-21	140.5	11	50	8	5,354	4.91	5.3	49.3	20.2	6.65	30	90		
9-Oct-21	127.3	17	45	9	4,685	5.43	5.4	49.6	20.0	6.77	30	40		
10-Oct-21	380.3	72	>71	36	5,818	1.96	5.3	49.0	16.1	6.71	>24,200	>24,200		
11-Oct-21	174.1	7	30	4	2,611	1.50	5.2	48.5	17.4	6.72	200	250		
12-Oct-21	150.0	8	21	5	3,796	3.46	5.1	48.3	18.3	6.75	30	60		
13-Oct-21	246.0	41	51	22	5,780	3.13	5.0	48.0	18.8	6.75	30	30		
14-Oct-21	301.7	13	20	5	3,771	1.41	4.9	47.1	18.6	6.77	640	910		
15-Oct-21	178.0	8	23	4	3,738	2.35	4.8	46.4	17.6	6.79	220	230		
16-Oct-21	154.8	12	nr	nr	4,024	3.70	4.8	46.5	18.8	6.77	50	110		
17-Oct-21	148.2	14	30	8	4,163	3.82	4.8	47.0	18.3	6.78	20	40		
18-Oct-21	149.6	17	34	9	4,489	3.97	4.8	47.0	19.8	6.72	70	120		
19-Oct-21	158.3	18	37	9	4,890	4.42	4.8	47.0	18.7	6.87	90	70		
20-Oct-21	152.7	16	36	8	4,931	4.39	4.8	47.0	18.6	6.81	30	40		
21-Oct-21	148.7	14	37	10	4,817	4.52	4.8	47.0	18.6	6.79	10	20		
22-Oct-21	146.4	17	26	11	4,333	4.77	4.8	47.0	18.7	6.75	40	30		
23-Oct-21	139.2	15	31	11	4,801	4.97	4.8	46.8	18.8	6.79	10	10		
24-Oct-21	138.1	16	28	11	4,861	4.86	4.8	46.7	18.8	6.75	20	10		
25-Oct-21	145.5	13	23	11	4,773	5.07	4.8	46.8	18.9	6.86	50	100		
26-Oct-21	133.9	19	22	10	4,778	5.45	4.7	47.0	18.8	6.80	30	30		
27-Oct-21	270.6	68	58	29	7,848	4.17	4.7	47.0	16.9	6.63	30	30		
28-Oct-21	156.4	9	15	6	3,221	2.64	4.7	46.4	16.0	6.59	280	440		
29-Oct-21	143.5	9	13	6	4,564	3.95	4.6	46.5	17.8	6.72	100	150		
30-Oct-21	140.2	12	19	8	4,977	5.07	4.6	46.7	18.4	6.82	50	70		
31-Oct-21	138.9	14	22	9	4,848	4.83	4.7	46.8	18.6	6.79	60	90		
Max:	380.3													
Min:	127.3													
Average:	164.6	18	33	10	4,728	3.89			18.8	6.75				
Total Flow:	5,103.6													
Geo.Mean:											73	87		

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