

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

January 2021

Licence # 2716RR	File # 1069.10	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(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-21	43.9	16	13	19	26	8	10	1,786	4.45	4.6	55.1	15.0	6.66	30
2-Jan-21	45.1	14	13	19	26	7	10	1,840	4.68	4.6	55.2	15.0	6.67	10
3-Jan-21	46.7	13	13	19	25	7	10	1,988	4.58	4.6	55.2	15.2	6.66	<10
4-Jan-21	46.4	11	13	13	25	5	10	1,774	4.34	4.6	55.0	15.5	6.58	<10
5-Jan-21	49.6	13	13	16	24	6	10	2,050	4.37	4.6	55.1	15.4	6.51	10
6-Jan-21	45.9	10	13	nr	24	nr	10	1,824	4.61	4.7	54.9	15.3	6.60	<10
7-Jan-21	45.8	10	13	21	24	7	10	1,924	4.48	4.8	54.7	15.5	6.71	10
8-Jan-21	45.5	12	13	19	24	5	10	1,949	5.06	4.8	54.7	14.9	6.68	<10
9-Jan-21	45.9	8	13	20	24	5	10	2,034	5.12	4.9	54.9	14.3	6.75	<10
10-Jan-21	48.2	10	14	22	23	5	10	2,023	4.66	4.9	54.8	14.7	6.66	<10
11-Jan-21	49.5	12	14	20	23	7	10	2,053	4.25	4.9	54.7	15.5	6.69	<10
12-Jan-21	45.7	12	14	20	23	6	10	1,796	4.20	4.9	54.6	15.4	6.73	10
13-Jan-21	46.0	10	13	20	23	5	9	1,896	4.57	4.9	54.6	15.4	6.58	20
14-Jan-21	45.4	9	13	21	23	6	9	1,922	4.41	4.9	54.6	15.6	6.54	<10
15-Jan-21	45.7	11	13	22	23	5	9	2,057	4.53	5.0	54.5	15.4	6.65	20
16-Jan-21	46.3	11	13	21	23	6	9	1,978	6.72	5.0	54.5	15.3	6.62	20
17-Jan-21	47.7	12	13	26	22	6	9	1873	4.48	5.1	54.6	15.3	6.64	<10
18-Jan-21	47.1	10	13	20	22	5	8	1,534	3.74	5.0	54.6	15.1	6.61	10
19-Jan-21	46.0	11	13	20	21	4	8	1,655	4.06	5.1	54.5	15.0	6.80	20
20-Jan-21	46.5	8	13	18	21	4	8	1,833	4.08	5.1	54.4	15.0	6.81	10
21-Jan-21	45.8	13	13	30	21	7	8	1,920	4.21	5.1	54.5	15.1	6.59	80
22-Jan-21	46.6	10	13	24	21	6	7	1,933	3.80	5.1	54.7	14.7	6.89	230
23-Jan-21	46.5	9	12	20	21	6	7	1,877	4.22	5.1	54.7	14.9	6.66	40
24-Jan-21	48.1	12	12	26	21	10	7	1,871	4.55	5.1	54.7	14.9	6.62	10
25-Jan-21	48.2	11	12	22	21	8	7	1,763	3.87	5.0	54.6	14.6	6.58	60
26-Jan-21	42.2	14	12	36	22	9	7	1,722	4.16	5.0	54.5	14.7	6.64	180
27-Jan-21	50.2	11	11	26	22	9	7	1,993	3.70	5.0	54.3	14.6	6.66	210
28-Jan-21	46.8	14	11	23	22	11	7	1,759	3.76	4.9	54.0	14.5	6.58	220
29-Jan-21	46.9	13	11	20	22	9	7	1,829	3.96	4.9	53.8	14.1	6.62	60
30-Jan-21	46.5	8	11	22	22	10	7	1,986	4.17	4.9	53.4	14.8	6.70	20
31-Jan-21	48.3	11	11	23	22	9	7	1,975	3.99	4.9	53.1	14.8	6.67	50
Max:	50.2													
Min:	42.2													
Average:	46.6	11		22		7		1,884	4.38			15.0	6.66	
Total Flow:	1,445.0													
Geo.Mean:														19

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)** Flow, highlighted in bold, in excess of 98.6 ML/D per clause 27 of Licence 2716RR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process