

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

March 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-Mar-21	49.0	15	15	15	19	10	12	2,072	3.86	4.7	56.4	14.0	6.62	<10
2-Mar-21	49.9	10	15	15	19	9	12	2,115	3.85	4.7	56.3	14.2	6.61	20
3-Mar-21	48.4	10	15	14	18	8	12	2,019	3.40	4.7	56.5	14.2	6.60	<10
4-Mar-21	50.9	10	15	16	18	8	12	2,147	4.21	4.7	56.9	14.3	6.66	<10
5-Mar-21	52.8	10	15	16	18	8	12	2,031	3.63	4.7	57.0	14.2	6.61	50
6-Mar-21	55.6	12	15	18	18	11	12	2,175	3.85	4.6	56.7	13.8	6.62	<10
7-Mar-21	60.2	15	15	24	19	13	12	2,264	3.99	4.6	56.2	13.5	6.60	30
8-Mar-21	61.0	13	15	18	19	9	12	2,067	3.57	4.6	55.5	13.4	6.62	150
9-Mar-21	63.7	11	15	20	18	11	12	1,930	3.11	4.5	54.8	13.5	6.57	130
10-Mar-21	51.9	11	14	19	17	9	12	1,758	2.63	4.4	54.3	13.3	6.63	20
11-Mar-21	48.9	13	14	15	17	8	12	1,897	3.29	4.4	54.2	14.1	6.67	90
12-Mar-21	48.8	11	13	19	17	8	11	1,981	3.80	4.4	54.0	13.9	6.62	20
13-Mar-21	51.1	11	13	20	17	10	11	2,064	4.52	4.4	53.9	14.2	6.62	20
14-Mar-21	49.4	15	13	24	18	11	11	1,901	4.06	4.4	53.7	14.0	6.66	30
15-Mar-21	50.4	10	13	20	18	9	11	1,860	3.83	4.4	53.4	14.0	6.59	17,300
16-Mar-21	48.3	12	13	25	18	11	11	1,966	3.54	4.3	53.0	14.0	6.85	24,200
17-Mar-21	48.3	12	12	nr	18	nr	10	2,003	3.72	4.3	52.6	14.3	6.65	10
18-Mar-21	47.5	13	12	25	18	8	10	2,052	4.18	4.3	52.6	14.4	6.88	320
19-Mar-21	48.1	12	12	24	18	8	10	2,050	4.06	4.3	52.5	14.4	6.86	110
20-Mar-21	49.0	12	12	26	18	8	10	2,125	4.44	4.3	52.5	14.6	6.67	10
21-Mar-21	51.8	12	12	25	18	11	10	2,143	4.40	4.3	52.1	14.7	6.63	<10
22-Mar-21	49.3	11	11	nr	19	nr	10	1,955	3.65	4.3	51.6	14.6	6.52	10
23-Mar-21	47.9	17	12	nr	19	nr	10	1,857	3.14	4.2	51.4	14.6	6.62	<10
24-Mar-21	47.4	15	12	nr	19	nr	10	2,010	3.51	4.2	51.1	14.3	6.56	<10
25-Mar-21	47.5	12	12	nr	19	nr	9	1,807	3.61	4.2	51.0	14.2	6.64	60
26-Mar-21	51.4	9	12	nr	19	nr	9	2,077	4.04	4.2	51.0	14.1	6.72	<10
27-Mar-21	49.4	10	12	nr	20	nr	9	1,856	3.99	4.2	50.6	14.0	6.65	<10
28-Mar-21	49.5	8	11	20	20	6	9	1,988	4.21	4.1	50.1	14.3	6.64	<10
29-Mar-21	47.8	5	11	22	20	6	9	1,917	4.19	4.2	49.6	14.4	6.62	<10
30-Mar-21	47.1	7	11	17	20	6	9	2,062	3.93	4.1	49.3	14.2	6.59	<10
31-Mar-21	46.9	8	11	24	20	6	9	2,111	4.21	4.1	49.3	14.0	6.59	<10
Max:	63.7													
Min:	46.9													
Average:	50.6	11		20		9		2,008	3.82			14.1	6.64	
Total Flow:	1,568.8													
Geo.Mean:														25

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