

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

March 2020

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-20	49.5	8	9	15	19	7	7	2,005	4.69	4.3	49.7	14.2	6.70	10
2-Mar-20	47.1	7	9	13	18	5	7	1,865	3.41	4.3	49.8	14.3	6.51	60
3-Mar-20	46.5	5	9	14	18	5	7	1,879	3.74	4.2	49.8	14.3	6.58	30
4-Mar-20	46.8	8	9	18	18	6	7	2,064	4.95	4.3	49.8	14.3	6.72	40
5-Mar-20	47.5	8	9	18	18	5	7	2,019	4.69	4.3	49.8	14.2	6.76	20
6-Mar-20	48.5	11	9	15	18	5	7	2,110	4.17	4.3	49.9	14.0	6.61	20
7-Mar-20	54.6	8	9	9	17	<4	7	2,244	4.06	4.4	50.0	13.8	6.67	10
8-Mar-20	50.1	10	9	18	17	6	7	1,934	4.25	4.3	49.9	13.4	6.85	<10
9-Mar-20	49.0	7	9	19	17	6	7	1,896	2.81	4.3	49.9	13.6	6.55	40
10-Mar-20	47.8	6	9	19	17	<4	6	1,969	3.60	4.3	49.9	13.8	6.62	10
11-Mar-20	51.5	4	9	27	18	10	7	2,096	4.03	4.3	49.9	13.7	6.67	30
12-Mar-20	48.5	8	9	17	18	5	7	1,959	3.84	4.3	49.5	13.8	6.65	<10
13-Mar-20	48.5	6	9	14	17	4	6	1,959	4.00	4.4	49.1	13.7	6.62	10
14-Mar-20	49.7	9	9	8	17	3	6	2,192	4.19	4.4	49.0	13.4	6.76	<10
15-Mar-20	50.1	7	9	9	17	5	6	2,029	4.43	4.4	48.7	13.8	6.81	<10
16-Mar-20	50.1	5	9	14	17	5	6	2,024	3.95	4.4	48.5	13.8	6.57	40
17-Mar-20	49.2	8	9	19	16	6	6	1,870	3.30	4.4	48.2	14.1	6.63	10
18-Mar-20	48.7	<3	8	15	16	5	6	1,992	3.97	4.5	47.9	14.0	6.67	20
19-Mar-20	48.0	6	8	18	16	7	6	1,757	3.72	4.4	47.9	14.0	6.65	20
20-Mar-20	48.6	14	8	21	16	9	6	2,041	4.34	4.4	48.0	13.8	6.71	90
21-Mar-20	48.8	6	8	9	16	4	6	1,947	3.55	4.5	47.9	13.2	6.82	10
22-Mar-20	49.1	6	8	19	16	6	6	2,013	3.85	4.5	47.9	13.6	6.64	<10
23-Mar-20	55.8	8	8	18	16	8	6	2,143	3.97	4.5	47.9	14.0	6.61	40
24-Mar-20	58.3	10	8	18	16	8	6	2,035	3.24	4.4	47.9	13.3	6.78	60
25-Mar-20	61.4	8	8	17	16	9	6	1,830	3.32	4.4	48.0	12.8	6.73	1,290
26-Mar-20	58.6	10	8	15	16	7	6	1,916	2.80	4.4	47.8	12.7	6.67	320
27-Mar-20	78.3	37	9	>37	17	31	7	2,161	3.03	4.3	47.7	12.9	6.79	230
28-Mar-20	80.3	22	9	29	17	18	7	2,208	2.77	4.3	47.3	11.6	6.89	1,530
29-Mar-20	74.9	15	9	21	17	16	7	1,947	2.88	4.3	47.0	11.9	7.03	3,450
30-Mar-20	74.6	10	9	21	17	16	8	2,029	3.02	4.3	46.6	12.3	6.73	7,270
31-Mar-20	80.5	15	10	18	18	14	8	1,779	2.07	4.2	46.2	12.3	6.78	2,360
Max:	80.5													
Min:	46.5													
Average:	54.9	9		17		8		1,997	3.70			13.5	6.70	
Total Flow:	1,700.9													
Geo.Mean:														46

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