

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

September 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-Sep-20	53.8	6	7	21	38	<4	6	1,731	2.64	4.0	45.9	18.5	6.75	<10
2-Sep-20	56.0	8	7	11	37	5	6	1,662	3.19	4.0	45.6	18.5	6.61	20
3-Sep-20	70.7	<3	7	21	36	<4	6	1,555	2.38	3.9	45.1	18.0	6.86	20
4-Sep-20	55.5	7	7	36	36	<4	6	1,747	2.92	3.9	44.7	18.5	7.04	580
5-Sep-20	51.0	<3	7	34	35	<4	5	1,661	3.72	3.9	44.4	18.5	6.72	<10
6-Sep-20	49.6	7	7	33	35	5	5	1,759	4.01	3.9	44.4	18.6	6.68	<10
7-Sep-20	52.5	7	7	28	35	4	6	1,664	3.87	3.9	44.7	18.3	6.73	10
8-Sep-20	52.3	9	7	36	34	5	6	1,813	3.68	3.9	44.9	18.5	6.70	10
9-Sep-20	50.5	6	7	30	34	<4	5	1,801	3.64	3.9	45.0	18.4	6.73	20
10-Sep-20	50.7	7	7	26	33	<4	5	1,891	4.17	3.9	45.0	18.5	6.60	10
11-Sep-20	50.0	8	8	32	33	<4	5	1,886	4.20	3.9	45.0	18.6	6.79	<10
12-Sep-20	49.0	6	7	30	33	4	5	1,965	4.20	3.9	45.2	18.6	6.66	<10
13-Sep-20	50.2	5	6	25	32	<4	5	1,914	4.47	3.9	45.4	18.4	6.71	<10
14-Sep-20	50.6	6	6	30	32	5	5	1,826	3.42	4.0	45.9	18.5	6.64	<10
15-Sep-20	49.4	6	6	22	31	4	5	1,836	3.06	4.0	46.3	18.7	6.59	10
16-Sep-20	49.4	8	6	29	31	5	5	1,892	3.70	4.0	46.7	18.5	6.67	20
17-Sep-20	49.8	10	7	23	31	6	5	1,938	4.55	4.0	46.8	18.3	6.67	90
18-Sep-20	49.4	11	7	27	30	5	5	1,951	3.98	4.0	47.1	18.3	6.64	20
19-Sep-20	48.2	8	7	24	30	4	5	1,823	4.35	4.1	47.2	18.3	6.72	20
20-Sep-20	48.6	ns	7	ns	29	ns	5	ns	ns	4.1	47.2	18.6	6.64	40
21-Sep-20	50.6	6	7	31	29	6	5	1,792	4.02	4.1	47.2	18.7	6.60	310
22-Sep-20	48.2	5	7	28	29	5	5	1,774	3.44	4.0	47.3	18.8	6.63	60
23-Sep-20	48.7	10	7	25	29	9	5	1,706	3.44	4.0	47.5	18.8	6.68	100
24-Sep-20	48.9	14	7	30	28	7	5	1,972	3.98	4.1	47.4	19.2	6.82	1,790
25-Sep-20	48.7	5	7	26	28	4	5	1,908	4.00	4.1	47.8	18.7	6.71	60
26-Sep-20	47.6	19	8	14	27	9	5	1,904	4.29	4.1	48.3	18.6	6.71	<10
27-Sep-20	49.5	52	9	39	27	23	5	1,875	4.10	4.2	48.6	18.5	6.68	<10
28-Sep-20	48.7	8	9	24	27	6	6	1,904	2.91	4.2	48.8	18.6	6.54	100
29-Sep-20	48.1	22	9	33	27	9	5	1,795	3.29	4.2	49.2	18.5	6.60	90
30-Sep-20	49.4	7	9	21	27	<4	5	2,021	3.48	4.2	49.9	18.5	6.65	110
Max:	70.7													
Min:	47.6													
Average:	50.9	9		27		5		1,827	3.69			18.5	6.69	
Total Flow:	1,525.5													
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