

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

November 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-Nov-20	51.0	44	13	49	27	19	8	2,125	4.68	5.0	53.2	17.0	6.70	20
2-Nov-20	48.4	4	12	23	26	<4	8	1,860	3.76	4.9	52.9	17.3	6.61	<10
3-Nov-20	49.2	6	10	23	25	5	7	2,075	3.56	4.9	53.0	17.2	6.68	30
4-Nov-20	47.1	7	10	30	25	5	7	1,860	3.10	4.8	53.2	16.8	6.58	20
5-Nov-20	47.0	6	9	28	24	<4	6	2,036	3.60	4.8	53.2	15.9	6.82	10
6-Nov-20	47.0	6	9	25	24	<4	6	1,875	3.85	4.8	53.5	15.7	6.70	30
7-Nov-20	47.8	6	9	24	24	<4	6	2,048	4.58	4.8	53.8	15.8	6.69	<10
8-Nov-20	48.8	6	8	24	24	<4	6	1,816	4.40	4.8	54.1	16.2	6.66	<10
9-Nov-20	47.6	5	8	20	24	<4	6	1,800	3.79	4.8	54.2	15.9	6.65	40
10-Nov-20	46.1	7	8	18	24	<4	6	1,847	3.76	4.8	54.4	16.4	6.64	<10
11-Nov-20	47.0	6	8	21	23	<4	5	2,052	4.68	4.8	54.4	16.6	6.67	10
12-Nov-20	46.6	7	8	22	23	4	5	1,853	4.04	4.8	54.5	16.7	6.60	10
13-Nov-20	47.6	7	7	21	23	<4	5	2,038	4.23	4.8	54.6	16.3	6.69	<10
14-Nov-20	47.4	7	7	23	23	4	5	1,905	4.52	4.8	54.5	16.5	6.69	10
15-Nov-20	48.0	53	9	45	24	18	5	1,945	4.19	4.9	54.7	16.5	6.69	10
16-Nov-20	48.0	7	9	21	24	<4	6	1,895	3.97	4.8	54.5	16.5	6.75	<10
17-Nov-20	45.7	15	9	37	24	7	6	1,937	4.86	4.9	54.5	16.2	6.74	<10
18-Nov-20	46.7	10	9	19	24	6	6	1,970	2.96	4.8	54.5	16.2	6.65	30
19-Nov-20	46.0	11	9	25	24	9	6	2,045	3.10	4.8	54.6	16.6	6.92	20
20-Nov-20	45.7	11	10	25	24	na	6	1,993	3.66	4.8	54.6	16.4	6.71	20
21-Nov-20	46.8	14	10	25	24	9	6	2,083	4.02	4.8	54.9	16.2	6.73	20
22-Nov-20	47.5	13	10	39	25	9	7	1,975	4.01	4.8	55.0	16.2	6.65	20
23-Nov-20	47.2	15	10	26	25	7	7	1,969	3.70	4.7	55.1	16.1	6.63	110
24-Nov-20	46.0	11	11	25	25	7	7	1,793	3.12	4.7	55.3	16.3	6.64	30
25-Nov-20	48.6	26	11	40	26	24	8	2,094	4.02	4.7	55.7	16.3	6.66	80
26-Nov-20	47.9	14	11	25	27	7	8	1,953	4.09	4.7	55.7	16.0	6.58	>24,200
27-Nov-20	45.4	13	12	34	27	8	8	2,042	4.53	4.7	55.6	16.2	6.60	150
28-Nov-20	46.6	9	12	23	27	7	8	1,945	3.70	4.6	55.9	16.1	6.72	20
29-Nov-20	47.2	13	12	27	27	8	9	1,968	3.76	4.6	55.8	16.2	6.72	40
30-Nov-20	47.5	12	12	35	27	7	9	1,833	3.50	4.6	55.8	15.3	6.79	30
Max:	51.0													
Min:	45.4													
Average:	47.3	12		27		7		1,954	3.92			16.3	6.69	
Total Flow:	1,419.1													
Geo.Mean:														22

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