

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

August 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-Aug-20	48.3	5	8	42	44	<4	4	1,580	3.61	3.9	43.7	18.7	6.73	<10
2-Aug-20	46.5	4	8	32	44	<4	4	1,517	3.83	3.9	44.2	18.5	6.73	20
3-Aug-20	48.5	5	7	nr	44	nr	4	1,657	4.04	4.0	44.5	17.9	6.70	10
4-Aug-20	50.2	8	7	nr	44	nr	4	1,648	3.93	4.0	44.7	18.4	6.62	<10
5-Aug-20	49.8	5	7	44	45	4	4	1,723	3.68	4.0	45.3	18.5	6.61	30
6-Aug-20	50.0	6	7	49	45	4	4	1,576	4.00	4.0	45.7	18.7	6.77	10
7-Aug-20	49.8	4	7	44	45	4	5	1,595	4.01	4.1	46.2	18.9	6.59	20
8-Aug-20	47.7	5	7	38	45	<4	5	1,477	3.97	4.1	46.4	18.8	6.71	20
9-Aug-20	48.3	6	7	54	44	5	5	1,675	4.41	4.1	46.6	18.6	6.66	1,300
10-Aug-20	49.6	5	7	44	45	4	5	1,668	4.10	4.1	47.0	18.5	6.57	10
11-Aug-20	49.2	8	7	49	43	5	5	1,747	3.77	4.1	47.3	18.7	6.57	190
12-Aug-20	49.3	4	7	32	42	4	4	1,717	3.63	4.1	48.0	18.8	6.65	130
13-Aug-20	56.9	8	7	41	42	6	4	1,942	4.11	4.2	48.3	19.0	6.61	230
14-Aug-20	72.6	37	8	54	43	23	5	1,960	3.11	4.2	48.3	19.1	6.74	160
15-Aug-20	65.8	6	8	27	42	4	5	1,585	2.08	4.2	48.1	17.8	6.70	40
16-Aug-20	53.3	8	8	33	41	<4	5	1,460	2.98	4.2	48.0	18.4	6.74	20
17-Aug-20	53.5	5	7	29	41	<4	5	1,663	3.55	4.2	48.1	18.5	6.60	20
18-Aug-20	52.5	4	7	35	40	<4	5	1,648	3.37	4.2	48.2	18.8	6.64	<10
19-Aug-20	53.8	4	7	46	41	<4	5	1,770	3.89	4.2	48.2	19.1	6.60	20
20-Aug-20	54.4	5	7	45	41	<4	5	1,707	3.61	4.2	48.4	19.2	6.57	<10
21-Aug-20	54.0	7	7	42	41	4	5	1,631	3.79	4.2	48.6	19.3	6.63	220
22-Aug-20	52.6	6	7	44	41	4	5	1,532	2.86	4.2	48.8	19.2	6.68	<10
23-Aug-20	51.7	7	7	28	40	5	5	1,666	4.13	4.2	48.6	19.1	6.67	190
24-Aug-20	52.3	7	7	18	40	5	5	1,596	3.66	4.2	48.3	19.0	6.62	10
25-Aug-20	51.1	7	7	46	39	6	5	1,687	3.60	4.2	48.1	19.1	6.61	20
26-Aug-20	51.5	7	7	52	41	27	5	1,772	3.74	4.2	47.7	19.1	6.66	70
27-Aug-20	51.0	4	7	31	41	5	5	1,816	3.75	4.1	47.3	19.2	6.68	10
28-Aug-20	52.6	5	7	29	40	<4	5	1,762	4.01	4.1	47.1	19.5	6.90	880
29-Aug-20	48.6	7	7	24	39	<4	5	1,790	3.81	4.1	46.8	19.3	6.62	30
30-Aug-20	67.6	23	7	37	39	19	6	2,128	4.23	4.1	46.5	19.0	6.73	<10
31-Aug-20	63.5	4	7	19	38	4	6	1,708	2.39	4.0	46.1	18.4	6.75	30
Max:	72.6													
Min:	46.5													
Average:	53.1	7		38		6		1,690	3.67			18.8	6.67	
Total Flow:	1,646.6													
Geo.Mean:														30

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