

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

July 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-Jul-21	48.0	4	11	18	28	4	7	1,693	3.99	4.6	48.5	17.9	6.61	780
2-Jul-21	48.7	5	10	19	27	4	7	1,646	3.47	4.6	48.2	17.9	6.60	20
3-Jul-21	47.9	9	10	20	27	6	7	1,637	3.87	4.6	47.9	18.3	6.62	1,160
4-Jul-21	49.8	6	10	21	26	6	7	1,670	3.50	4.6	47.6	18.2	6.59	<10
5-Jul-21	50.9	8	10	18	25	6	7	1,613	3.24	4.6	47.2	18.7	6.88	960
6-Jul-21	51.6	5	10	16	25	5	7	1,900	3.06	4.6	47.0	17.9	6.75	<10
7-Jul-21	51.1	7	9	16	24	4	6	1,554	3.72	4.7	47.0	18.1	6.70	1,790
8-Jul-21	48.2	4	9	28	24	10	6	1,662	4.06	4.7	46.8	18.6	6.76	10
9-Jul-21	48.9	5	8	18	23	4	6	1,678	3.69	4.7	47.2	18.8	6.67	400
10-Jul-21	47.4	4	8	18	23	4	6	1,807	3.75	4.7	47.8	18.4	6.63	<10
11-Jul-21	49.1	5	8	24	23	4	5	1,580	3.62	4.7	48.1	18.7	6.68	20
12-Jul-21	49.6	3	8	20	23	4	5	1,807	3.68	4.7	48.3	18.6	6.65	<10
13-Jul-21	49.1	<3	8	18	22	4	5	1,270	3.84	4.7	48.4	18.6	6.64	10
14-Jul-21	48.6	4	7	18	22	<4	5	1,876	3.69	4.7	48.5	18.7	6.69	<10
15-Jul-21	49.1	4	7	18	22	4	5	1,675	3.84	4.7	48.5	18.9	6.75	10
16-Jul-21	49.5	<3	7	18	21	<4	5	1,785	3.73	4.7	48.6	19.1	6.68	<10
17-Jul-21	47.4	7	7	19	21	4	5	1,712	3.74	4.7	48.5	19.0	6.62	10
18-Jul-21	48.4	5	7	21	21	<4	5	1,772	3.96	4.7	48.2	19.0	6.63	<10
19-Jul-21	49.6	4	6	14	21	<4	5	1,749	4.57	4.7	48.0	18.8	6.60	<10
20-Jul-21	52.9	4	6	20	20	9	5	1,794	4.05	4.7	47.7	19.3	6.62	10
21-Jul-21	51.9	5	6	13	20	4	5	1,649	2.16	4.6	47.5	19.0	6.62	<10
22-Jul-21	51.5	<3	5	17	20	<4	5	1,638	2.01	4.6	47.4	19.4	6.64	<10
23-Jul-21	51.2	3	5	16	19	<4	4	1,706	3.03	4.5	47.5	19.7	6.70	<10
24-Jul-21	47.4	<3	5	21	19	<4	4	1,644	3.65	4.5	47.5	19.5	6.69	<10
25-Jul-21	47.8	<3	5	22	19	4	4	1,653	3.77	4.5	47.7	19.0	6.59	<10
26-Jul-21	49.6	7	5	26	19	<4	4	1,700	3.91	4.5	47.9	18.8	6.63	<10
27-Jul-21	49.3	6	5	25	19	<4	4	1,835	3.60	4.4	48.1	19.2	6.65	<10
28-Jul-21	49.2	7	5	26	19	4	4	1,746	3.27	4.4	48.2	19.2	6.67	20
29-Jul-21	48.8	8	5	26	20	4	4	1,766	3.44	4.4	48.4	19.1	6.72	20
30-Jul-21	48.4	6	5	19	20	<4	4	1,811	3.22	4.4	48.5	19.1	6.76	nr
31-Jul-21	46.3	8	5	18	20	4	4	1,640	3.27	4.3	48.5	19.9	6.65	<10
Max:	52.9													
Min:	46.3													
Average:	49.3	5		20		<4		1,699	3.56			18.8	6.67	
Total Flow:	1,527.2													
Geo.Mean:														16

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