

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

December 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-Dec-21	50.6	9	10	17	16	8	7	1,949	4.10	3.9	47.6	16.0	6.92	>24,200
2-Dec-21	51.7	8	10	21	17	6	7	1,861	3.69	3.9	47.5	16.3	6.83	20
3-Dec-21	46.4	10	10	18	17	4	7	1,748	3.96	3.9	47.5	16.4	6.81	50
4-Dec-21	46.1	10	10	nr	17	nr	7	1,747	4.27	3.9	47.5	15.3	6.78	10
5-Dec-21	45.6	10	10	20	17	7	7	1,668	3.74	3.9	47.2	15.1	6.67	30
6-Dec-21	43.9	10	10	18	17	6	7	1,683	3.73	3.9	47.1	15.2	6.79	<10
7-Dec-21	43.1	6	10	16	17	5	7	1,672	3.67	3.9	47.2	15.1	6.77	10
8-Dec-21	43.2	8	10	21	17	6	7	1,679	3.87	3.9	47.5	15.3	6.77	20
9-Dec-21	47.4	8	10	25	17	5	7	1,845	5.40	4.0	47.6	15.3	6.71	10
10-Dec-21	43.0	3	10	21	18	5	6	1,706	5.91	4.1	47.4	15.2	6.78	<10
11-Dec-21	43.5	7	10	24	18	5	6	1786	4.47	4.1	47.3	14.7	6.73	<10
12-Dec-21	43.1	6	9	25	18	6	6	1,695	4.05	4.1	47.7	15.1	6.78	<10
13-Dec-21	40.6	16	9	33	19	15	6	1,753	5.83	4.2	48.3	15.4	6.71	10
14-Dec-21	40.6	13	10	30	19	11	7	1,738	4.67	4.3	48.7	15.8	6.61	60
15-Dec-21	40.8	8	10	20	20	5	7	1,663	3.82	4.3	48.9	15.7	6.66	440
16-Dec-21	41.5	8	10	29	20	6	7	1,735	3.86	4.4	48.9	14.9	6.65	10
17-Dec-21	41.8	8	10	24	21	<4	7	1,752	3.99	4.4	49.3	15.0	6.69	20
18-Dec-21	42.4	9	10	22	21	4	6	1,808	4.71	4.4	49.4	14.4	6.74	<10
19-Dec-21	42.9	12	10	29	21	7	7	1,770	4.37	4.5	49.6	13.5	6.84	<10
20-Dec-21	42.1	9	10	24	22	7	7	1,647	4.00	4.5	49.6	14.3	6.70	20
21-Dec-21	41.6	8	10	22	22	5	7	1,657	4.03	4.5	49.7	14.5	6.60	10
22-Dec-21	41.5	9	9	26	22	5	7	1,684	4.16	4.5	49.7	14.7	6.71	<10
23-Dec-21	41.3	10	9	23	22	5	6	1,683	4.22	4.5	49.7	14.7	6.64	30
24-Dec-21	43.2	11	9	23	22	6	6	1,789	4.40	4.6	49.6	14.3	6.65	10
25-Dec-21	41.4	11	9	20	22	6	6	1,675	4.22	4.6	49.6	13.6	6.73	<10
26-Dec-21	42.0	10	9	22	23	8	6	1,877	4.57	4.6	49.7	14.1	6.75	<10
27-Dec-21	43.1	12	9	20	23	9	6	1,889	4.41	4.6	49.8	14.1	6.71	<10
28-Dec-21	43.6	11	9	22	23	9	6	1,884	4.27	4.6	50.0	13.8	6.79	<10
29-Dec-21	46.3	12	9	27	23	11	7	1,829	4.43	4.7	50.2	14.2	6.71	<10
30-Dec-21	47.2	9	9	22	23	10	7	1,902	4.49	4.7	50.0	14.1	6.69	20
31-Dec-21	46.2	11	9	25	23	11	7	1,798	4.55	4.8	50.3	13.5	6.69	<10
Max:	51.7													
Min:	40.6													
Average:	43.8	9		23		7		1,760	4.32			14.8	6.73	
Total Flow:	1,357.7													
Geo.Mean:														15

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