

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
July 2018**

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-18	50.6	7	12	16	14	6	9	1,594	3.18	4.0	37.0	16.8	6.58	10
2-Jul-18	53.5	4	12	14	14	5	8	1,606	3.06	4.0	37.1	17.0	6.57	10
3-Jul-18	52.3	9	12	14	14	6	8	1,701	3.46	4.0	37.4	16.8	6.56	110
4-Jul-18	67.4	9	12	18	14	5	8	1,873	2.70	4.0	37.4	16.8	6.55	40
5-Jul-18	53.9	8	12	14	14	4	8	1,654	2.72	3.9	37.4	16.9	6.61	60
6-Jul-18	51.9	7	12	15	14	5	8	1,675	3.38	3.9	37.4	17.1	6.56	<10
7-Jul-18	51.4	6	11	16	15	5	8	1,742	3.52	3.9	37.5	17.1	6.73	10
8-Jul-18	50.4	7	11	19	15	5	8	1,683	3.60	3.9	37.6	17.0	6.61	<10
9-Jul-18	51.1	8	11	14	15	5	8	1,767	3.57	3.9	37.6	17.2	6.57	30
10-Jul-18	51.9	10	11	18	15	5	7	1,737	3.70	3.9	37.8	17.7	6.63	10
11-Jul-18	54.0	9	10	15	15	5	7	1,745	3.19	3.9	37.8	17.6	6.58	40
12-Jul-18	51.5	8	10	17	15	7	7	1,694	3.57	3.9	37.8	17.7	6.58	10
13-Jul-18	50.8	13	10	15	15	6	7	1,733	3.50	3.9	38.1	17.8	6.59	70
14-Jul-18	49.2	20	9	15	14	10	6	1,639	3.17	4.0	38.3	17.7	6.64	10
15-Jul-18	49.0	8	9	20	14	8	6	1,623	3.46	4.1	38.9	17.6	6.65	<10
16-Jul-18	49.3	11	9	18	14	8	6	1,667	3.92	4.1	39.3	17.5	6.58	10
17-Jul-18	48.7	11	9	18	15	9	6	1,764	3.46	4.2	39.7	17.6	6.54	70
18-Jul-18	48.8	8	9	16	15	5	6	1,745	3.33	4.2	40.0	18.0	6.64	<10
19-Jul-18	58.5	20	9	30	15	16	6	1,966	3.89	4.2	40.3	18.2	6.57	30
20-Jul-18	67.6	8	9	12	15	7	6	1,650	2.19	4.2	40.2	17.8	6.65	20
21-Jul-18	50.9	8	9	10	15	5	6	1,614	2.79	4.1	40.5	17.6	6.68	<10
22-Jul-18	55.4	10	9	15	15	6	6	1,694	3.24	4.1	40.7	17.7	6.67	10
23-Jul-18	53.6	7	9	11	15	4	6	1,671	2.68	4.1	40.7	17.8	6.59	10
24-Jul-18	50.7	7	9	12	15	4	6	1,729	3.24	4.0	40.9	17.8	6.65	30
25-Jul-18	52.7	8	9	14	15	4	6	1,912	3.59	4.0	41.3	17.8	6.59	<10
26-Jul-18	50.3	7	9	20	16	4	6	1,762	3.64	4.1	41.6	17.6	6.65	10
27-Jul-18	50.7	7	9	14	16	4	6	1,840	3.46	4.1	42.0	18.0	6.63	<10
28-Jul-18	47.9	7	9	15	16	4	6	1,728	3.77	4.1	42.1	18.1	6.64	<10
29-Jul-18	48.2	10	9	20	16	6	6	1,802	3.66	4.1	42.4	17.9	6.62	10
30-Jul-18	51.6	11	9	18	16	8	6	1,749	3.39	4.1	42.7	17.8	6.60	<10
31-Jul-18	49.5	11	9	24	16	12	6	1,673	3.97	4.2	42.9	18.2	6.55	<10
Max:	67.6													
Min:	47.9													
Average:	52.4	9		16		6		1,724	3.35			17.6	6.61	
Total Flow:	1623.2													
Geo.Mean:														20

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