

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
October 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-Oct-18	55.5	6	11	22	22	3	6	1,814	3.27	3.6	40.5	16.7	6.65	<10
2-Oct-18	53.7	5	11	23	22	4	6	1,800	3.39	3.6	40.5	17.3	6.72	10
3-Oct-18	61.9	6	11	21	22	5	6	2,112	3.79	3.6	40.9	16.8	6.73	<10
4-Oct-18	60.7	9	11	22	21	5	6	1,743	2.92	3.5	40.9	15.9	6.60	<10
5-Oct-18	70.2	9	10	nr	20	nr	6	2,128	3.28	3.5	40.5	16.4	6.67	<10
6-Oct-18	73.0	9	10	nr	19	nr	5	1,789	2.53	3.5	39.8	15.9	6.80	20
7-Oct-18	63.6	8	10	15	19	4	5	1,787	2.69	3.4	39.7	16.6	6.65	10
8-Oct-18	62.0	8	10	16	18	5	5	1,810	3.43	3.4	39.6	17.0	6.70	30
9-Oct-18	60.4	8	10	14	18	4	5	1,919	3.44	3.4	39.9	17.1	6.83	<10
10-Oct-18	55.9	4	9	16	18	5	5	1,777	2.66	3.4	40.0	16.9	6.81	10
11-Oct-18	54.6	6	9	16	18	4	5	1,910	3.08	3.4	40.4	16.2	6.68	<10
12-Oct-18	54.5	5	8	nr	16	nr	4	1,890	3.78	3.4	40.7	16.9	6.75	10
13-Oct-18	64.6	7	8	nr	15	nr	4	2,203	4.47	3.5	41.5	17.1	6.79	20
14-Oct-18	58.9	5	8	14	16	5	4	1,955	3.48	3.6	42.0	16.4	6.66	10
15-Oct-18	55.5	5	8	10	15	4	4	1,888	2.65	3.6	42.3	16.3	6.74	10
16-Oct-18	53.8	5	8	12	15	4	4	1,909	2.73	3.5	42.4	17.0	6.85	10
17-Oct-18	55.5	46	9	nr	15	nr	4	1,961	3.42	3.6	42.4	16.7	6.82	<10
18-Oct-18	53.0	5	9	nr	14	nr	4	1,830	3.28	3.6	42.5	17.0	6.69	<10
19-Oct-18	54.1	4	9	nr	14	nr	4	2,008	3.58	3.6	42.5	17.1	6.73	20
20-Oct-18	54.6	8	9	nr	13	nr	3	1,982	4.06	3.5	42.4	16.8	6.95	<10
21-Oct-18	55.2	6	9	nr	13	nr	3	1,533	4.35	3.6	42.5	16.7	6.59	20
22-Oct-18	52.8	5	8	17	13	17	3	1,844	3.24	3.6	42.4	17.1	6.67	20
23-Oct-18	51.9	8	8	18	13	6	3	1,957	3.47	3.6	42.8	16.6	6.76	120
24-Oct-18	51.5	8	8	25	13	7	3	1,986	3.39	3.7	43.2	16.7	6.77	100
25-Oct-18	51.1	9	8	16	13	7	4	1,899	3.78	3.7	43.3	16.9	6.67	90
26-Oct-18	51.2	12	8	16	13	7	4	1,813	4.32	3.8	43.5	17.0	6.69	70
27-Oct-18	51.4	30	9	21	13	13	4	1,943	3.73	3.8	43.8	16.9	6.67	30
28-Oct-18	51.7	51	10	30	13	18	4	1,880	3.71	3.9	44.2	16.8	6.70	40
29-Oct-18	50.6	110	14	>37	12	32	5	1,858	3.39	4.0	44.4	16.7	6.69	10
30-Oct-18	67.6	9	14	16	12	8	5	1,791	1.78	3.9	44.1	15.4	6.78	30
31-Oct-18	51.0	8	14	11	12	5	6	1,658	1.92	3.9	44.3	16.0	6.76	40
Max:	73.0													
Min:	50.6													
Average:	56.8	14		19		8		1,883	3.32			16.7	6.73	
Total Flow:	1762.0													
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