

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

August 2019

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
Date	Raw Sewage Daily Flow													
	ML**													
1-Aug-19	50.1	5	10	12	19	3	9	1,858	3.46	2.9	37.6	18.4	6.57	10
2-Aug-19	50.1	6	10	17	18	<4	9	1,804	3.39	2.9	37.4	18.4	6.57	<10
3-Aug-19	47.6	4	10	16	18	<4	9	1,695	3.32	2.9	37.1	18.5	6.61	<10
4-Aug-19	45.9	5	10	13	18	3	9	1,635	3.34	2.9	36.8	18.1	6.61	<10
5-Aug-19	47.1	6	10	14	18	4	8	1,629	3.45	2.9	36.7	17.9	6.58	<10
6-Aug-19	48.3	7	10	14	18	4	8	1,733	3.19	2.9	36.6	18.1	6.51	50
7-Aug-19	48.2	8	10	17	18	5	8	1,770	2.96	2.9	36.7	18.3	6.55	120
8-Aug-19	47.3	8	8	19	18	5	6	1,734	2.85	2.9	36.9	18.3	6.58	100
9-Aug-19	48.1	8	7	nr	18	nr	5	1,759	3.10	2.9	37.6	18.4	6.58	80
10-Aug-19	59.2	11	7	34	19	11	6	1,901	3.49	3.0	38.2	18.4	6.58	30
11-Aug-19	50.9	8	7	14	19	5	6	1,388	2.20	3.0	38.5	18.4	6.51	80
12-Aug-19	49.5	6	7	13	18	<4	5	1,629	2.49	3.0	38.8	18.3	6.58	30
13-Aug-19	51.3	6	6	15	18	<4	4	1,704	3.07	3.1	39.6	18.3	6.62	30
14-Aug-19	48.4	7	6	19	18	<4	4	1,708	3.67	3.1	40.4	18.3	6.57	20
15-Aug-19	48.7	4	6	30	19	<4	4	1,842	3.78	3.2	41.0	18.4	6.58	30
16-Aug-19	48.8	6	6	nr	19	nr	4	1,777	3.87	3.3	41.5	18.8	6.55	<10
17-Aug-19	46.4	4	6	19	19	<4	4	1,680	3.54	3.3	41.9	18.8	6.72	<10
18-Aug-19	46.8	6	6	21	19	<4	3	1,787	4.02	3.4	42.3	18.2	6.69	10
19-Aug-19	48.1	6	6	nr	20	nr	3	1,842	3.18	3.4	42.6	18.3	6.59	10
20-Aug-19	60.2	6	6	<6	19	<2	3	1,901	3.18	3.5	42.6	18.2	6.61	20
21-Aug-19	48.7	5	6	18	19	2	3	1,760	3.27	3.5	42.9	18.3	6.60	<10
22-Aug-19	48.6	5	6	15	19	2	3	1,899	3.24	3.5	43.3	18.4	6.59	10
23-Aug-19	47.9	4	6	26	19	2	3	1,845	3.89	3.5	43.9	18.5	6.64	50
24-Aug-19	46.7	5	6	20	19	2	3	1,878	3.99	3.6	44.4	18.7	6.60	<10
25-Aug-19	67.4	ns	ns	ns	18	ns	3	ns	ns	3.6	44.7	18.6	6.58	<10
26-Aug-19	118.5	ns	ns	ns	18	ns	3	ns	ns	3.6	44.7	17.4	6.94	(580)
27-Aug-19	72.5	6	6	12	18	2	3	1,675	1.53	3.5	44.5	17.8	6.72	80
28-Aug-19	63.5	6	6	17	18	3	3	1,681	2.19	3.5	44.4	17.8	6.70	50
29-Aug-19	57.2	5	6	10	17	3	3	1,700	2.43	3.5	44.4	18.1	6.74	70
30-Aug-19	55.2	7	6	13	17	3	3	1,821	2.96	3.5	44.5	18.0	6.67	20
31-Aug-19	68.4	12	6	10	17	3	3	2,012	3.24	3.5	44.4	17.5	6.72	80
Max:	118.5													
Min:	45.9													
Average:	54.4	6		17		3		1,760	3.18			18.3	6.62	
Total Flow:	1685.5													
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