

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

October 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
1-Oct-19	122.4	35	19	>37	25	>21	11	1,983	1.73	3.0	34.0	15.1	7.86	(17,300)
2-Oct-19	95.4	10	19	16	25	8	11	1,909	1.95	3.0	33.7	16.3	6.94	2,990
3-Oct-19	86.8	12	20	18	25	7	11	1,875	2.01	3.0	33.3	16.6	7.03	100
4-Oct-19	78.8	12	19	14	25	5	11	1,709	1.67	3.0	33.1	16.8	6.95	190
5-Oct-19	114.7	27	20	>35	25	18	12	2,018	1.95	2.9	32.4	16.7	6.87	(120)
6-Oct-19	111.4	26	20	32	26	18	12	1,816	1.67	2.9	31.7	15.6	7.23	(40)
7-Oct-19	96.4	14	21	29	27	10	12	1,850	1.75	2.8	31.2	16.0	7.10	180
8-Oct-19	88.9	10	20	29	27	7	12	1,618	1.36	2.7	31.0	15.4	7.01	190
9-Oct-19	84.4	9	20	22	27	7	12	1,780	1.87	2.6	30.6	16.2	6.91	60
10-Oct-19	100.8	16	20	36	28	14	13	1,845	1.64	2.6	30.6	16.1	6.99	(60)
11-Oct-19	109.0	18	21	23	28	15	13	1,875	1.67	2.6	30.3	14.9	7.05	(6,870)
12-Oct-19	142.7	35	22	32	29	26	14	1,797	1.28	2.5	29.7	14.5	7.29	(2,910)
13-Oct-19	180.6	39	22	31	29	26	14	1,878	1.00	2.5	29.5	13.9	7.44	(>24,200)
14-Oct-19	188.2	45	23	37	29	32	15	1,826	1.03	2.4	29.2	14.0	7.52	(1,450)
15-Oct-19	185.0	44	24	33	29	27	15	1,833	0.88	2.3	28.5	14.2	7.46	(840)
16-Oct-19	177.5	39	24	34	29	25	15	1,811	1.01	2.2	27.7	14.1	7.56	(910)
17-Oct-19	155.6	25	24	28	28	19	15	1,821	1.11	2.2	27.0	14.2	7.54	(1,380)
18-Oct-19	141.7	23	25	28	29	17	16	1,771	1.27	2.2	26.2	14.0	7.42	(810)
19-Oct-19	123.1	31	25	27	29	18	16	1,884	1.58	2.1	25.5	14.0	7.34	(790)
20-Oct-19	114.5	23	23	32	28	20	15	1,832	1.71	2.1	25.4	14.2	7.23	(130)
21-Oct-19	116.2	23	23	29	28	17	16	1,825	1.48	2.1	25.4	14.1	7.21	(130)
22-Oct-19	118.1	20	23	28	28	15	16	1,724	1.38	2.0	25.4	13.6	7.26	(390)
23-Oct-19	110.1	17	23	32	28	13	16	1,696	1.46	2.0	25.2	13.8	7.17	(100)
24-Oct-19	104.1	18	23	35	28	12	16	1,707	1.55	2.0	24.8	13.6	7.13	nr
25-Oct-19	102.4	16	24	26	29	11	16	1,864	1.66	2.0	24.5	13.8	7.14	(90)
26-Oct-19	100.0	15	23	27	28	14	16	1,800	1.76	2.0	24.4	13.7	7.01	(110)
27-Oct-19	97.5	21	23	26	29	15	16	1,920	1.84	2.0	24.7	13.0	6.98	640
28-Oct-19	93.0	11	24	23	29	10	16	1,720	1.81	2.0	24.5	13.5	6.91	40
29-Oct-19	91.3	11	23	17	28	8	16	1,863	1.78	1.9	24.5	13.5	6.94	160
30-Oct-19	88.9	11	22	25	28	9	15	1,697	1.75	1.9	24.8	13.3	6.95	50
31-Oct-19	81.6	12	21	14	27	7	15	1,731	1.84	1.9	24.9	13.2	6.91	120
Max:	188.2													
Min:	78.8													
Average:	116.2	22		28		16		1,815	1.56			14.6	7.17	
Total Flow:	3601.2													
Geo.Mean:														167

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