

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 2017

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-Mar-17	50.6	7	10	11	15	6	8	1,792	3.40	4.4	46.6	13.9	6.83	11
2-Mar-17	50.7	8	10	15	15	8	8	1,806	3.57	4.4	46.0	13.6	6.88	23
3-Mar-17	53.0	8	9	11	14	6	8	1,785	3.45	4.4	45.2	13.3	6.82	23
4-Mar-17	56.3	7	9	12	14	6	8	1,778	3.04	4.4	45.0	11.8	6.58	4
5-Mar-17	62.2	10	9	14	14	8	7	1,908	2.97	4.4	44.5	13.3	6.75	23
6-Mar-17	74.3	15	9	23	14	17	8	1,866	2.47	4.3	43.5	12.9	6.87	43
7-Mar-17	75.8	8	9	12	14	7	8	1,515	1.72	4.3	43.0	11.2	6.89	74
8-Mar-17	55.1	6	9	11	13	6	7	1,543	2.34	4.2	42.2	12.2	6.81	240
9-Mar-17	53.7	6	9	12	13	6	7	1,632	2.85	4.2	41.7	12.8	6.65	4
10-Mar-17	53.1	8	9	12	13	6	7	1,651	3.04	4.2	41.5	13.0	6.82	43
11-Mar-17	53.6	6	9	13	13	8	7	1,748	3.27	4.2	41.6	12.9	6.74	93
12-Mar-17	52.0	7	8	15	13	6	7	1,674	3.21	4.1	41.3	12.9	6.83	43
13-Mar-17	52.6	6	8	14	13	6	7	1,658	3.15	4.1	41.2	13.3	6.84	380
14-Mar-17	51.6	7	8	15	13	7	7	1,676	3.25	4.1	41.3	13.5	6.81	93
15-Mar-17	51.4	7	8	13	13	5	7	1,687	3.26	4.1	41.4	13.6	6.66	15
16-Mar-17	57.4	12	8	22	13	14	7	1,740	3.34	4.0	41.5	13.6	6.75	15
17-Mar-17	88.7	6	8	13	13	7	7	1,721	2.12	4.0	41.0	11.0	6.88	430
18-Mar-17	54.9	4	8	12	13	6	7	1,472	2.93	3.9	40.8	12.8	6.86	43
19-Mar-17	72.6	23	8	21	13	17	8	1,953	3.25	3.9	40.6	13.4	6.83	23
20-Mar-17	85.5	12	8	16	13	11	8	1,855	2.16	3.8	40.2	11.7	6.92	30
21-Mar-17	65.0	6	8	11	13	5	8	1,546	2.11	3.8	40.1	11.5	6.92	15
22-Mar-17	52.8	5	8	13	13	5	8	1,667	2.90	3.8	40.3	13.1	6.79	23
23-Mar-17	55.2	5	8	13	14	5	7	1,837	3.17	3.8	40.6	14.0	6.92	15
24-Mar-17	54.3	4	8	13	14	6	7	1,590	3.00	3.8	40.4	13.4	6.92	43
25-Mar-17	61.8	10	8	12	14	7	7	1,792	3.23	3.8	40.1	13.5	6.74	>3
26-Mar-17	87.3	27	9	32	14	26	8	1,807	2.38	3.8	39.4	12.3	6.82	43
27-Mar-17	81.0	9	9	10	14	6	8	1,636	2.05	3.8	38.9	11.8	7.06	23
28-Mar-17	75.6	ns	9	ns	14	ns	8	ns	ns	3.8	38.6	12.4	7.01	20
29-Mar-17	88.8	25	9	30	15	25	9	1,624	2.08	3.7	38.0	12.0	6.99	15
30-Mar-17	125.3	26	10	23	15	16	9	1,680	1.46	3.6	37.2	11.1	7.18	930
31-Mar-17	106.0	9	10	12	15	9	9	1,665	1.63	3.6	36.7	11.4	7.27	15
Max:	125.3													
Min:	50.6													
Average:	66.4	10		15		9		1,710	2.76			13	6.86	
Total Flow:	2058.0													
Geo.Mean:														32

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