

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 2016

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-Apr-16	58.2	3	11	19	17	5	9	1,740	2.69	2.9	31.7	13.7	6.83	4
2-Apr-16	58.1	10	11	21	17	5	9	1,831	2.81	2.9	31.3	13.3	6.77	<3
3-Apr-16	58.3	5	11	17	17	6	9	1,794	2.51	2.8	30.6	13.4	6.76	4
4-Apr-16	55.6	6	11	22	17	6	9	1,763	2.89	2.8	30.3	13.7	6.73	4
5-Apr-16	58.0	4	10	18	17	5	9	1,885	3.03	2.8	29.9	13.8	6.79	<3
6-Apr-16	69.4	5	10	27	17	5	8	1,964	2.35	2.8	29.7	13.3	6.72	21
7-Apr-16	64.8	4	10	28	17	5	7	1,755	2.40	2.8	29.8	13.2	6.81	30
8-Apr-16	60.9	13	10	nr	16	nr	7	1,772	2.72	2.8	29.8	14.1	6.73	9
9-Apr-16	61.1	6	10	31	17	6	7	1,827	3.08	2.8	29.8	13.1	6.77	4
10-Apr-16	61.2	5	9	31	18	5	7	1,805	2.96	2.8	29.9	12.9	6.91	23
11-Apr-16	57.4	<3	8	33	18	5	7	1,768	2.98	2.8	30.2	13.6	6.75	43
12-Apr-16	55.7	6	8	19	18	5	6	1,711	2.99	2.8	30.5	11.1	6.91	43
13-Apr-16	55.7	5	7	29	18	4	6	1,759	3.13	2.9	30.9	13.5	6.77	7
14-Apr-16	59.0	6	6	>36	17	6	5	nr	3.41	2.9	31.4	14.1	6.88	23
15-Apr-16	80.8	24	7	>36	17	20	6	1,834	2.73	3.0	31.7	14.4	6.67	21
16-Apr-16	133.7	47	8	>38	17	nr	6	1,645	1.31	3.0	31.7	12.3	6.97	(23)
17-Apr-16	172.1	22	8	29	17	>19	5	1,893	1.23	2.9	31.6	10.7	7.46	(430)
18-Apr-16	117.8	15	8	18	17	13	5	1,613	1.43	2.9	31.5	11.7	7.35	(430)
19-Apr-16	98.4	8	8	14	17	nr	5	1,653	1.55	2.9	31.5	12.4	7.14	(23)
20-Apr-16	89.1	6	8	12	17	5	5	1,622	1.64	2.9	31.5	12.9	7.02	43
21-Apr-16	83.9	6	8	15	17	6	5	1,686	1.88	2.9	31.3	13.5	6.98	240
22-Apr-16	77.4	4	8	nr	16	nr	5	1,741	2.18	2.9	31.2	13.7	6.97	93
23-Apr-16	71.9	9	8	21	17	5	5	1,675	2.40	2.9	31.1	nr	6.93	9
24-Apr-16	74.4	6	9	28	18	5	5	1,800	2.48	2.9	30.9	nr	7.18	9
25-Apr-16	69.1	4	8	35	18	4	5	1,638	2.37	2.9	30.9	13.4	6.83	4
26-Apr-16	67.0	6	8	18	18	6	5	1,863	2.84	2.9	31.0	13.6	6.86	(43)
27-Apr-16	67.5	4	8	19	18	nr	5	1,909	2.63	2.9	31.0	13.4	6.96	15
28-Apr-16	66.7	4	8	14	19	5	5	1,833	2.76	2.9	30.8	13.6	7.08	(4)
29-Apr-16	64.4	5	8	15	18	6	5	1,777	2.75	2.9	30.9	13.6	6.85	7
30-Apr-16	61.4	7	9	15	18	5	5	1,682	2.74	2.8	29.8	13.1	6.90	<3
Max:	172.1													
Min:	55.6													
Average:	74.3	9		24		7		1,767	2.50			13	6.91	
Total Flow:	2228.8													
Geo.Mean:														11

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
- (8) Total Nitrogen results are calculated from TKN and nitrate values