

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
May 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-May-16	61.4	5	9	15	18	6	5	1,781	3.04	2.8	30.1	14.0	6.66	4
2-May-16	59.8	3	8	20	18	6	5	1,711	2.96	2.7	30.4	14.3	6.77	15
3-May-16	59.4	<3	8	16	18	5	5	1,781	3.28	2.7	31.1	14.3	6.89	9
4-May-16	59.4	10	8	20	18	5	5	1,741	2.98	2.7	31.5	14.4	6.78	<3
5-May-16	58.8	7	9	31	18	5	5	1,747	3.10	2.7	31.8	14.5	6.73	(430)
6-May-16	57.9	5	9	27	18	9	5	1,771	3.14	2.7	32.2	14.6	6.80	4
7-May-16	57.6	ns	8	ns	18	ns	5	ns	ns	2.6	31.2	14.3	6.65	nr
8-May-16	57.5	ns	8	ns	18	ns	5	ns	ns	2.5	30.0	14.6	6.72	nr
9-May-16	57.2	16	8	23	17	6	5	1,698	3.01	2.6	30.4	14.8	6.77	93
10-May-16	63.0	8	8	25	17	7	5	1,954	3.26	2.6	30.8	15.0	6.82	23
11-May-16	61.5	<3	8	21	17	4	5	1,667	2.76	2.6	31.0	14.9	6.75	43
12-May-16	57.6	<3	8	18	17	4	5	1,750	3.11	2.6	31.3	14.6	6.79	15
13-May-16	57.3	6	8	17	16	4	5	1,812	3.37	2.6	31.5	14.2	6.89	4,300
14-May-16	57.2	6	8	20	17	5	5	1,808	3.44	2.6	31.8	13.3	6.77	4
15-May-16	57.8	4	8	22	18	5	4	1,786	3.35	2.6	30.8	13.9	7.23	7
16-May-16	56.2	3	6	26	18	5	5	1,686	3.26	2.7	31.5	14.5	6.78	15
17-May-16	54.8	11	6	26	18	6	5	1,781	3.62	2.7	32.3	14.9	6.77	9
18-May-16	54.3	4	5	29	19	5	4	1,568	3.25	2.8	33.0	15.2	6.79	15
19-May-16	53.7	<3	5	24	19	4	5	1,784	3.65	2.9	33.6	15.3	6.79	9
20-May-16	52.8	4	5	27	20	5	5	1,752	3.49	2.9	34.2	15.6	6.79	14
21-May-16	49.4	7	5	24	20	7	5	1,535	3.42	3.0	34.6	17.2	6.64	30
22-May-16	48.2	8	5	22	21	7	5	1,416	3.21	3.0	34.9	15.6	nr	3
23-May-16	81.9	4	5	26	21	6	5	1,679	2.10	3.0	34.7	15.5	6.91	23
24-May-16	59.7	5	5	18	20	5	5	1,576	2.53	3.0	35.0	15.6	6.91	9
25-May-16	67.0	32	6	30	20	20	5	1,695	2.67	3.0	35.1	15.9	6.75	9
26-May-16	120.8	9	6	15	20	7	5	1,872	1.59	3.0	34.7	14.6	7.12	(740)
27-May-16	79.0	9	6	11	20	4	6	1,690	1.90	3.0	34.6	15.3	6.99	43
28-May-16	69.1	5	6	14	20	4	6	1,623	2.28	3.0	34.6	15.7	6.84	15
29-May-16	65.9	7	6	15	20	5	6	1,695	2.54	3.0	34.7	16.4	7.06	23
30-May-16	63.3	9	6	17	20	5	6	1,766	2.79	3.1	36.0	15.8	6.77	43
31-May-16	93.6	20	7	29	20	15	6	1,984	2.41	3.1	35.7	15.3	6.98	(4,300)
Max:	120.8													
Min:	48.2													
Average:	63.0	7		22		6		1,728	2.95			15	6.83	
Total Flow:	1953.0													
Geo.Mean:														16

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