

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

August 2015

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-Aug-15	51.4	11	7	14	12	8	6	1,332	3.20	3.3	32	18	6.79	23
2-Aug-15	47.7	12	8	14	12	9	6	1,188	3.07	3.3	32	18	6.87	9
3-Aug-15	49.1	13	7	19	11	12	6	1,427	3.40	3.3	32	18	6.90	23
4-Aug-15	50.7	11	7	17	12	NR	6	1,465	2.65	3.4	32	18	6.81	930
5-Aug-15	59.2	8	7	17	12	8	6	1,545	2.44	3.3	32	18	6.69	92
6-Aug-15	96.6	6	7	NR	11	6	6	1,584	1.29	3.3	32	18	6.82	150
7-Aug-15	75.1	5	7	8	11	4	6	1,480	1.75	3.2	31	18	6.81	23
8-Aug-15	68.3	6	7	8	11	<3	6	1,365	1.85	3.2	31	18	6.78	9
9-Aug-15	59.6	4	7	9	11	3	6	1,424	2.78	3.2	31	18	6.54	9
10-Aug-15	58.5	6	7	12	11	4	5	1,549	3.75	3.2	31	19	6.72	9
11-Aug-15	55.7	5	7	12	11	6	5	1,622	3.38	3.3	31	19	6.71	4
12-Aug-15	67.0	8	7	16	12	6	5	1,702	3.12	3.3	31	19	6.73	23
13-Aug-15	60.6	4	7	12	12	4	5	1,442	2.52	3.2	31	19	6.73	9
14-Aug-15	57.1	8	7	9	12	4	5	1,519	3.11	3.2	30	19	6.75	<3
15-Aug-15	54.8	6	7	11	11	5	5	1,501	3.16	3.2	30	19	6.72	<3
16-Aug-15	52.1	6	7	11	12	5	5	1,489	3.34	3.2	30	19	6.78	9
17-Aug-15	52.3	<3	7	12	12	4	5	1,538	3.55	3.3	30	19	6.66	4
18-Aug-15	51.2	4	7	13	12	5	5	1,566	3.69	3.3	30	19	6.62	4
19-Aug-15	50.2	6	7	13	12	6	5	1,646	3.74	3.3	30	19	6.62	4
20-Aug-15	50.1	5	7	15	12	6	5	1,687	3.88	3.4	30	19	6.65	<3
21-Aug-15	50.4	6	7	15	12	8	6	1,562	3.68	3.3	30	19	6.65	4
22-Aug-15	117.0	39	8	NR	11	NR	5	1,063	1.00	3.3	30	19	6.66	(23)
23-Aug-15	178.6	14	8	NR	11	NR	5	1,584	0.78	3.2	30	18	7.44	(4,300)
24-Aug-15	99.4	8	8	NR	11	NR	5	1,392	1.39	3.2	30	18	7.32	(230)
25-Aug-15	76.1	5	8	NR	11	NR	5	1,445	1.92	3.1	29	19	7.05	150
26-Aug-15	67.0	5	8	12	11	4	5	1,587	2.47	3.1	29	19	6.89	38
27-Aug-15	63.7	4	8	13	10	4	4	1,553	2.80	3.1	29	19	6.85	43
28-Aug-15	61.5	3	8	18	11	3	5	1,619	2.99	3.2	29	19	6.70	9
29-Aug-15	57.3	8	8	16	11	5	5	1,496	3.14	3.2	29	19	6.74	7
30-Aug-15	57.3	5	8	19	11	5	5	1,523	3.19	3.2	29	19	6.76	<3
31-Aug-15	63.1	4	8	25	12	5	4	1,584	3.20	3.2	29	19	6.71	23
Max:	178.6													
Min:	47.7													
Average:	66.4	8		14		5		1,499	2.78			19	6.79	
Total Flow:	2058.4													
Geo.Mean:														12

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