

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
July 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-Jul-15	51.8	5	6	15	14	4	6	1,643	3.30	3.3	33	17	6.65	<3
2-Jul-15	52.2	8	6	18	14	5	6	1,670	3.26	3.3	33	17	6.63	<3
3-Jul-15	51.9	8	7	12	14	6	6	1,709	3.39	3.3	33	17	6.69	4
4-Jul-15	57.7	25	7	36	15	18	6	1,430	2.89	3.3	33	17	6.67	4
5-Jul-15	86.6	11	7	11	15	12	6	1,714	2.04	3.2	33	17	6.89	43
6-Jul-15	60.3	8	7	12	15	8	6	1,489	3.35	3.2	32	16	6.76	230
7-Jul-15	56.8	6	7	10	15	5	6	1,482	2.57	3.3	33	17	6.72	430
8-Jul-15	54.7	5	7	10	15	4	6	1,553	2.82	3.3	33	17	6.67	<3
9-Jul-15	53.8	4	7	10	15	<3	6	1,549	2.91	3.3	33	17	6.72	4
10-Jul-15	53.1	6	7	12	15	6	6	1,535	2.99	3.3	33	18	6.67	15
11-Jul-15	52.4	8	7	11	15	11	6	1,472	3.00	3.3	33	18	6.70	<3
12-Jul-15	60.5	9	7	12	15	6	6	1,513	2.62	3.3	33	18	6.67	4
13-Jul-15	54.2	4	7	8	15	5	6	1,376	2.63	3.3	33	18	6.64	9
14-Jul-15	51.8	6	7	11	14	6	6	1,502	3.08	3.3	33	18	6.58	4
15-Jul-15	51.4	5	7	11	15	5	6	1,517	3.13	3.3	33	18	6.64	9
16-Jul-15	52.8	6	7	12	14	5	6	1,622	2.82	3.3	33	18	6.67	<3
17-Jul-15	53.6	4	6	8	14	4	6	1,554	2.86	3.3	33	18	6.65	9
18-Jul-15	52.1	6	6	9	13	5	6	1,542	3.00	3.3	33	18	6.62	<3
19-Jul-15	48.9	5	6	10	13	5	6	1,447	3.02	3.3	33	18	6.63	23
20-Jul-15	50.1	5	7	10	13	5	6	1,543	3.26	3.3	33	18	6.67	7
21-Jul-15	50.8	4	6	10	13	5	6	1,560	3.53	3.3	33	18	6.67	9
22-Jul-15	50.1	5	6	12	13	5	6	1,598	3.99	3.4	33	18	6.64	74
23-Jul-15	51.5	16	7	21	13	12	6	1,520	3.86	3.4	33	18	6.69	4
24-Jul-15	87.7	5	7	10	13	4	6	1,754	1.94	3.4	33	18	6.81	92
25-Jul-15	54.2	7	7	6	13	3	6	1,388	2.54	3.4	33	18	6.69	23
26-Jul-15	52.5	5	7	8	12	4	6	1,444	2.97	3.4	32	18	6.77	<3
27-Jul-15	68.5	5	7	10	12	4	6	1,863	3.21	3.4	33	19	6.66	15
28-Jul-15	88.3	19	7	23	12	12	6	1,757	2.33	3.4	32	18	6.86	(110,000)
29-Jul-15	67.7	<3	7	7	12	<3	6	1,496	1.92	3.3	32	18	6.79	21
30-Jul-15	61.8	3	7	10	12	4	6	1,645	2.71	3.3	32	18	6.77	23
31-Jul-15	48.9	9	7	12	12	6	6	1,290	3.63	3.3	32	18	6.76	4
Max:	88.3													
Min:	48.9													
Average:	57.7	7		12		6		1,554	2.95			18	6.70	
Total Flow:	1788.8													
Geo.Mean:														9

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