

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 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
Date	Raw Sewage Daily Flow ML**													
1-Apr-15	46.8	8	10	16	16	9	11	1,541	3.24	3.9	39	13	6.67	15
2-Apr-15	47.0	5	10	nr	16	nr	11	1,634	4.00	3.8	39	13	6.71	23
3-Apr-15	46.0	8	10	nr	16	nr	11	1,587	4.02	3.8	39	13	6.72	93
4-Apr-15	44.3	9	10	20	16	10	11	1,558	4.18	3.8	38	13	6.65	23
5-Apr-15	45.3	8	10	21	16	10	11	1,572	4.08	3.8	38	13	6.80	43
6-Apr-15	46.1	8	10	19	16	10	11	1,699	3.51	3.8	38	13	6.71	230
7-Apr-15	45.7	8	10	nr	17	nr	11	1,724	3.78	3.8	38	13	6.64	43
8-Apr-15	46.2	8	10	19	16	7	10	1,716	3.94	3.8	38	14	6.63	43
9-Apr-15	47.6	5	9	18	16	8	10	1,713	3.67	3.8	38	14	6.66	23
10-Apr-15	46.9	11	9	19	16	7	10	1,746	3.89	3.8	38	14	6.64	4
11-Apr-15	48.2	6	9	19	16	8	10	1,779	3.80	3.8	38	14	6.63	<3
12-Apr-15	49.6	6	9	20	17	9	9	1,833	3.79	3.8	39	14	6.61	<3
13-Apr-15	48.0	6	9	18	17	8	9	1,631	3.46	3.9	39	14	6.71	23
14-Apr-15	47.1	8	9	17	17	7	9	1,639	3.60	3.9	39	14	6.67	9
15-Apr-15	47.7	6	8	20	17	7	9	1,737	3.92	3.9	40	14	6.59	15
16-Apr-15	47.3	5	8	21	17	6	9	1,725	4.19	4.0	40	14	6.69	9
17-Apr-15	47.7	7	8	nr	18	nr	9	1,838	4.08	4.0	40	14	6.66	<3
18-Apr-15	48.0	8	8	16	18	6	9	1,763	3.87	4.0	40	14	6.65	<3
19-Apr-15	69.2	10	8	21	18	11	9	2,014	3.08	4.0	39	14	6.60	7
20-Apr-15	63.4	7	8	13	18	6	9	1,566	2.28	3.9	39	13	6.71	4
21-Apr-15	51.3	6	8	12	18	6	9	1,657	3.24	3.9	39	13	6.72	4
22-Apr-15	50.4	6	8	16	18	6	8	1,626	3.30	3.9	38	13	6.70	23
23-Apr-15	50.1	6	8	17	18	5	8	1,674	3.55	3.9	38	13	6.73	4
24-Apr-15	49.4	3	7	17	18	5	8	1,724	3.86	3.9	39	13	6.71	<3
25-Apr-15	49.5	7	7	19	18	7	8	1,753	3.72	4.0	39	13	6.63	<3
26-Apr-15	49.9	13	8	24	18	6	8	1,732	3.72	4.0	39	14	6.59	<3
27-Apr-15	49.0	9	8	20	18	9	8	1,640	3.40	4.0	39	13	6.56	4
28-Apr-15	48.0	9	8	12	18	9	8	1,623	3.67	4.0	39	14	6.64	4
29-Apr-15	48.4	14	8	23	18	8	8	1,664	3.72	4.0	39	14	6.65	23
30-Apr-15	48.3	19	8	21	18	7	8	1,615	3.75	4.1	39	14	6.64	38
Max:	69.2													
Min:	44.3													
Average:	49.1	8		18		8		1,691	3.68			13	6.66	
Total Flow:	1472.3													
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