

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
August 2014**

Licence 2716RR	Raw Sewage	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-14	51.0	6	5	11	11	5	6	1,157	2.72	3.3	32	19	6.71	43
2-Aug-14	47.6	12	6	11	11	6	6	1,405	3.39	3.3	32	18	6.64	4
3-Aug-14	44.6	7	6	12	11	4	6	1,312	3.35	3.4	33	18	6.65	230
4-Aug-14	47.4	9	6	12	11	6	6	1,374	3.34	3.4	33	18	6.72	<3
5-Aug-14	50.7	6	5	13	11	6	6	1,485	3.38	3.5	34	18	6.63	4
6-Aug-14	50.6	5	5	13	11	5	6	1,492	3.31	3.5	34	18	6.66	4
7-Aug-14	50.6	8	6	12	11	6	6	1,553	3.54	3.5	34	18	6.67	4
8-Aug-14	58.6	8	6	19	11	8	6	1,600	3.15	3.6	35	19	6.65	9
9-Aug-14	48.5	6	6	11	11	5	6	1,324	2.81	3.6	35	19	6.58	7
10-Aug-14	49.3	5	6	12	12	5	6	1,438	3.21	3.6	35	18	6.62	4
11-Aug-14	50.8	10	6	13	12	6	6	1,524	3.40	3.6	35	18	6.61	3
12-Aug-14	51.1	8	6	15	12	6	6	1,635	4.37	3.7	36	19	6.56	<3
13-Aug-14	49.9	7	6	16	12	6	6	1,586	3.82	3.8	36	19	6.64	<3
14-Aug-14	50.0	12	6	10	12	5	6	1,604	3.60	3.8	36	19	6.62	<3
15-Aug-14	49.3	9	6	25	12	6	6	1,577	3.77	3.8	36	19	6.68	<3
16-Aug-14	47.0	11	6	10	12	5	6	1,490	3.62	3.8	37	19	6.63	<3
17-Aug-14	46.8	17	7	16	12	10	6	1,418	3.47	3.9	37	19	6.67	<3
18-Aug-14	74.1	10	7	18	13	11	6	1,555	2.14	3.9	37	18	6.56	43
19-Aug-14	55.7	7	7	10	13	6	6	1,414	2.48	3.8	37	19	6.63	9
20-Aug-14	52.5	6	7	10	13	5	6	1,529	3.30	3.8	37	19	6.62	7
21-Aug-14	73.2	29	8	30	13	22	7	1,757	2.89	3.8	37	19	6.68	43
22-Aug-14	94.2	6	8	8	13	5	7	1,592	1.48	3.8	36	18	6.86	(430)
23-Aug-14	59.8	15	8	15	13	10	7	1,292	2.38	3.7	36	18	6.80	93
24-Aug-14	123.1	14	9	12	13	17	7	1,575	1.28	3.6	35	18	6.94	(430)
25-Aug-14	75.9	6	9	nr	13	nr	7	1,352	1.71	3.6	35	18	6.83	150
26-Aug-14	64.6	8	9	27	13	7	7	1,485	2.34	3.5	35	18	6.75	43
27-Aug-14	60.3	8	9	14	14	7	7	1,441	2.97	3.5	35	18	6.75	43
28-Aug-14	58.8	5	9	18	14	7	7	1,469	3.03	3.5	34	18	6.80	23
29-Aug-14	68.3	8	9	16	14	10	7	1,572	2.91	3.5	34	19	6.68	27
30-Aug-14	57.1	6	9	nr	14	nr	7	1,278	2.55	3.5	34	18	6.75	9
31-Aug-14	84.8	16	9	19	14	12	7	1,476	2.09	3.4	33	18	6.71	7
Max:	123.1													
Min:	44.6													
Average:	59.5	9		15		8		1,476	2.96			18	6.69	
Total Flow:	1846.0													
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