

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

February 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-Feb-14	45.9	11	8	14	14	10	10	1,645	3.75	5.1	48	14	6.57	93
2-Feb-14	46.1	10	8	13	14	10	10	1,659	3.83	5.1	48	13	6.60	9
3-Feb-14	45.7	8	8	14	14	10	9	1,683	2.48	5.1	47	14	6.55	230
4-Feb-14	46.6	6	8	12	14	7	9	1,752	4.09	5.0	47	14	6.50	230
5-Feb-14	45.5	4	8	13	14	7	9	1,632	3.82	5.2	49	14	6.53	430
6-Feb-14	45.0	5	8	12	13	6	9	1,603	3.92	5.0	47	14	6.61	93
7-Feb-14	44.7	5	8	17	13	7	9	1,688	4.27	4.8	45	14	6.57	23
8-Feb-14	45.8	6	8	17	13	6	9	1,687	4.18	4.6	44	14	6.47	15
9-Feb-14	47.0	5	8	16	14	6	9	1,721	4.02	4.6	44	13	6.48	93
10-Feb-14	45.4	3	7	15	13	6	9	1,574	3.66	4.6	44	14	6.46	230
11-Feb-14	45.2	4	7	15	13	5	8	1,600	3.83	4.6	44	14	6.65	75
12-Feb-14	44.8	7	7	15	14	5	8	1,631	4.04	4.4	44	14	6.60	150
13-Feb-14	44.3	4	7	nr	14	nr	8	1,642	4.15	4.4	44	14	6.46	43
14-Feb-14	25.7	6	7	13	14	5	8	946	4.25	4.4	44	14	6.57	23
15-Feb-14	45.8	6	7	14	14	6	8	1,659	4.16	4.4	44	14	6.63	9
16-Feb-14	45.2	8	7	15	14	6	8	1,597	3.94	4.4	44	13	6.62	9
17-Feb-14	45.3	6	7	nr	14	nr	8	1,576	3.86	4.4	44	13	6.53	23
18-Feb-14	47.5	8	7	13	14	9	8	1,573	3.51	4.4	44	14	6.64	750
19-Feb-14	48.9	11	8	16	14	13	8	1,740	4.03	4.4	44	14	6.61	2,300
20-Feb-14	46.3	14	8	19	15	15	9	1,556	3.75	4.4	44	14	6.65	46,000
21-Feb-14	46.3	9	8	13	15	11	9	1,550	3.62	4.4	44	13	6.60	9,300
22-Feb-14	47.2	11	8	16	15	12	9	1,518	3.64	4.4	44	13	6.52	9,300
23-Feb-14	48.9	12	9	14	15	10	9	1,681	3.87	4.4	44	13	6.50	4,300
24-Feb-14	50.9	7	8	18	15	12	9	1,650	3.65	4.4	44	13	6.52	15
25-Feb-14	47.0	8	8	14	15	9	9	1,611	3.88	4.4	44	13	6.53	43
26-Feb-14	46.9	7	8	14	15	8	9	1,600	3.95	4.4	44	13	6.65	<3
27-Feb-14	46.9	8	8	13	15	12	9	1,694	4.05	4.4	44	13	6.59	4
28-Feb-14	45.8	11	8	13	15	11	9	1,652	4.24	4.3	44	13	6.56	23
Max:	50.9													
Min:	25.7													
Average:	45.6	8		15		9		1,611	3.87			13	6.56	
Total Flow:	1276.5													
Geo.Mean:														107

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