

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
January 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-Jan-14	40.8	ns	16	ns	12	ns	7	ns	ns	4.4	41	14	6.60	4
2-Jan-14	42.2	ns	16	ns	12	ns	7	ns	ns	4.2	40	14	6.54	23
3-Jan-14	43.3	15	16	18	13	15	8	1,669	4.01	4.2	40	14	6.57	7
4-Jan-14	44.5	4	16	11	13	11	8	1,709	4.05	4.2	40	14	6.62	7
5-Jan-14	44.6	12	16	nr	13	nr	8	1,811	4.55	4.4	42	14	6.54	3
6-Jan-14	44.9	ns	15	ns	12	ns	8	ns	ns	4.2	40	14	6.56	9
7-Jan-14	48.3	10	10	37	13	14	8	1,816	4.30	4.2	41	14	6.59	430
8-Jan-14	43.4	8	9	18	12	17	8	1,680	4.29	4.3	43	14	6.58	23
9-Jan-14	45.3	7	7	9	12	8	8	1,717	4.20	4.5	44	14	6.63	15
10-Jan-14	45.9	6	7	10	12	8	8	1,782	4.09	4.5	45	14	6.68	29
11-Jan-14	46.4	10	7	21	12	8	8	1,764	4.09	4.5	45	14	6.54	9
12-Jan-14	47.8	8	7	11	12	7	8	1,774	3.93	4.4	43	15	6.66	<3
13-Jan-14	48.1	5	7	10	12	8	8	1,649	3.72	4.5	43	15	6.42	23
14-Jan-14	45.8	6	7	10	12	7	8	1,658	3.95	4.5	43	14	6.54	4
15-Jan-14	46.0	6	7	9	12	7	8	1,696	4.03	4.5	43	14	6.62	64
16-Jan-14	45.4	6	7	10	12	7	8	1,622	3.93	4.5	43	14	6.49	15
17-Jan-14	46.0	6	7	11	12	7	8	1,660	4.06	4.5	43	14	6.54	93
18-Jan-14	46.3	8	7	12	12	8	8	1,656	4.17	4.5	43	14	6.68	4
19-Jan-14	47.4	6	7	11	12	6	8	1,654	3.96	4.5	43	14	6.57	4
20-Jan-14	46.9	5	7	15	12	11	8	1,628	3.86	4.5	43	14	6.58	4
21-Jan-14	44.7	5	7	10	13	6	8	1,574	4.04	4.5	43	14	6.68	230
22-Jan-14	44.7	4	7	11	13	6	8	1,600	4.21	4.5	43	14	6.48	43
23-Jan-14	45.9	7	7	11	13	6	8	1,638	4.18	4.5	43	14	6.56	75
24-Jan-14	44.9	3	7	12	13	7	8	1,702	4.22	4.6	43	14	6.55	93
25-Jan-14	46.7	8	7	12	13	8	8	1,724	4.09	4.6	43	14	6.46	15
26-Jan-14	47.1	15	7	20	13	13	9	1,772	4.10	4.6	43	14	6.46	150
27-Jan-14	45.9	10	7	14	13	11	9	1,635	3.94	4.6	43	14	6.57	930
28-Jan-14	45.4	15	8	17	14	12	9	1,613	4.00	4.6	43	14	6.67	430
29-Jan-14	45.8	16	8	19	14	17	9	1,759	4.37	4.6	43	14	6.69	4,300
30-Jan-14	45.6	15	8	19	14	15	10	1,697	4.00	4.8	44	14	6.67	4,300
31-Jan-14	46.2	7	8	12	14	11	10	1,588	3.66	4.9	46	14	6.60	4,300
Max:	48.3													
Min:	40.8													
Average:	45.6	8		14		10		1,687	4.07			14	6.58	
Total Flow:	1412.4													
Geo.Mean:														39

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