

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

February 2015

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-15	44.9	10	9	19	18	11	11	1,608	3.83	4.4	45	14	6.59	110,000
2-Feb-15	44.2	18	9	20	18	14	11	1,529	3.56	4.4	45	14	6.51	43
3-Feb-15	42.8	12	9	18	18	9	11	1,408	3.49	4.4	45	14	6.52	21
4-Feb-15	43.0	9	9	24	18	10	10	1,573	3.94	4.4	45	14	6.57	4
5-Feb-15	42.8	7	9	19	18	10	10	1,535	4.09	4.4	45	14	6.68	43
6-Feb-15	42.8	8	9	13	18	8	10	1,621	4.34	4.4	45	14	6.70	7
7-Feb-15	43.5	10	9	nr	18	nr	10	1,638	4.63	4.4	45	14	6.57	7
8-Feb-15	44.6	20	9	nr	18	nr	10	1,703	4.11	4.4	45	13	6.57	15
9-Feb-15	43.5	5	9	16	18	10	10	1,526	3.75	4.4	45	14	6.75	93
10-Feb-15	41.6	7	9	17	18	8	10	1,489	4.07	4.4	45	14	6.62	7
12-Feb-15	42.2	4	9	15	18	6	10	1,553	4.11	4.4	45	13	6.70	4
13-Feb-15	42.0	7	9	16	18	7	10	1,669	4.24	4.4	45	14	6.73	15
14-Feb-15	42.4	7	9	14	18	6	9	1,686	4.16	4.4	45	13	6.58	9
15-Feb-15	43.1	10	9	14	17	7	9	1,671	4.28	4.4	45	13	6.68	4
17-Feb-15	42.1	7	9	27	18	16	10	1,535	4.14	4.4	45	13	6.63	15
18-Feb-15	43.4	<3	9	17	18	8	10	1,563	4.06	4.4	45	13	6.59	7
19-Feb-15	41.7	6	9	14	18	7	9	1,523	3.95	4.4	45	13	6.61	38
11-Feb-15	41.6	4	9	16	18	6	9	1,582	4.23	4.4	45	14	6.68	9
16-Feb-15	42.0	4	9	19	18	7	9	1,525	3.96	4.4	45	13	6.63	<3
20-Feb-15	41.6	5	9	15	17	8	9	1,653	4.20	4.4	45	14	6.62	43
21-Feb-15	42.8	4	8	12	17	6	9	1,686	4.25	4.4	45	13	6.58	4
22-Feb-15	44.2	11	9	13	17	8	9	1,709	4.17	4.4	44	13	6.65	9
23-Feb-15	43.4	<3	8	17	17	10	9	1,614	3.93	4.4	44	13	6.55	43
24-Feb-15	42.1	3	8	16	17	9	9	1,618	4.00	4.3	45	13	6.52	23
25-Feb-15	42.5	ns	8	ns	17	ns	9	ns	ns	4.3	43	13	6.54	150
26-Feb-15	42.9	<3	7	13	17	8	9	1,623	4.13	4.4	43	13	6.60	9
27-Feb-15	43.2	6	7	17	17	12	9	1,670	4.25	4.4	43	12	6.60	93
28-Feb-15	44.3	7	7	11	16	7	9	1,727	4.26	4.4	43	13	6.64	<3
Max:	44.9													
Min:	41.6													
Average:	42.9	7		16		9		1,601	4.08			13	6.61	
Total Flow:	1201.1													
Geo.Mean:														18

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