

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 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-Apr-14	47.4	7	12	13	20	7	13	1,632	3.62	4.5	44	13	6.58	4
2-Apr-14	48.9	7	12	14	20	8	13	1,784	3.82	4.4	44	12	6.52	4
3-Apr-14	48.8	9	12	12	19	6	12	1,592	3.59	4.4	44	13	6.62	110,000
4-Apr-14	52.2	10	12	13	19	8	12	1,665	3.50	4.4	44	13	6.57	23
5-Apr-14	60.6	16	12	17	19	11	12	1,708	3.11	4.4	44	12	6.66	11
6-Apr-14	65.3	12	12	16	19	12	12	1,822	2.81	4.3	43	12	6.55	9
7-Apr-14	63.1	6	12	11	18	7	12	1,711	2.64	4.3	43	11	6.56	21
8-Apr-14	70.0	11	12	8	17	11	12	1,791	2.60	4.2	42	12	6.62	<3
9-Apr-14	93.4	20	12	18	17	16	12	1,839	2.08	4.1	42	11	6.74	75
10-Apr-14	102.1	12	11	15	16	14	12	1,746	1.83	4.1	41	10	6.74	(9)
11-Apr-14	79.6	6	11	8	16	5	11	1,616	2.09	4.0	40	11	6.83	36
12-Apr-14	69.6	11	11	nr	15	nr	11	1,664	2.46	3.9	40	11	6.78	23
13-Apr-14	69.4	6	11	nr	14	nr	10	1,750	2.51	3.8	39	11	6.72	4
14-Apr-14	63.2	5	10	10	14	5	10	1,592	2.65	3.8	39	12	6.64	9
15-Apr-14	59.4	7	10	12	14	5	10	1,585	2.91	3.7	38	11	6.64	93
16-Apr-14	58.9	5	10	11	13	5	9	1,607	3.03	3.7	38	11	6.62	9
17-Apr-14	62.0	8	10	13	13	7	9	1,692	3.23	3.7	38	11	6.70	6
18-Apr-14	67.8	10	10	13	13	9	9	1,674	2.87	3.6	37	11	6.65	23
19-Apr-14	110.5	24	10	29	14	22	9	1,635	1.73	3.6	37	10	6.67	(93)
20-Apr-14	106.8	17	11	17	14	13	9	1,656	1.76	3.5	36	10	6.77	(21)
21-Apr-14	100.6	16	11	16	14	14	10	1,761	2.00	3.4	36	10	6.81	(43)
22-Apr-14	95.0	11	11	13	13	11	9	1,653	1.89	3.3	35	11	7.01	43
23-Apr-14	84.3	9	11	11	13	8	9	1,552	2.03	3.3	34	11	6.96	23
24-Apr-14	121.0	26	11	19	13	18	9	1,718	1.67	3.2	34	11	6.95	(4300)
25-Apr-14	137.4	22	11	18	13	16	10	1,828	1.49	3.1	33	12	7.16	(230)
26-Apr-14	96.7	11	11	12	13	9	10	1,731	1.92	3.0	32	10	6.80	15
27-Apr-14	81.3	7	11	11	13	6	9	1,544	2.21	3.0	32	11	6.82	140
28-Apr-14	97.4	16	12	17	13	14	10	1,762	1.90	2.9	31	11	6.80	43
29-Apr-14	87.5	4	11	8	13	5	9	1,452	1.80	2.8	31	11	6.83	23
30-Apr-14	75.5	4	11	6	13	5	9	1,601	2.34	2.8	30	11	6.83	150
Max:	137.4													
Min:	47.4													
Average:	79.2	11		14		10		1,679	2.47			11	6.74	
Total Flow:	2375.6													
Geo.Mean:														26

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