

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
June 2013**

Licence 2669 E RR	Raw Sewage	Final Effluent 24 Hour Composite						Final Effluent Grab Sample			
		TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Jun-13	55.8	19	4	11.7	0.24	0.3	2	13	8.27	93	93
2-Jun-13	36.7	14	4	0.4	0.22	0.2	2	14	8.50	93	93
3-Jun-13	31.3	11	5	0.3	0.22	0.3	2	14	8.76	23	23
4-Jun-13	27.7	12	5	0.3	0.23	0.3	1	14	8.87	93	93
5-Jun-13	26.1	11	5	0.3	0.26	0.3	1	16	8.73	15	15
6-Jun-13	24.8	8	4	0.2	0.27	0.3	1	16	8.82	9	9
7-Jun-13	26.1	12	4	0.3	0.32	0.3	1	18	8.85	<3	<3
8-Jun-13	25.5	13	3	4.6	0.39	0.3	1	18	8.76	23	23
9-Jun-13	24.7	10	4	10.9	0.45	0.3	1	18	8.84	9	9
10-Jun-13	23.6	9	4	0.2	0.44	0.3	1	18	8.76	9	9
11-Jun-13	22.8	8	3	0.2	0.47	0.3	1	18	8.83	9	9
12-Jun-13	22.8	6	3	0.2	0.52	0.4	1	19	9.02	4	4
13-Jun-13	22.9	7	3	4.6	0.57	0.4	1	19	9.23	<3	<3
14-Jun-13	23.1	8	<3	2.8	0.62	0.4	1	20	9.10	<3	<3
15-Jun-13	23.8	14	3	1.7	0.64	0.4	1	20	8.99	9	9
16-Jun-13	23.7	13	3	0.7	0.64	0.5	1	20	9.08	9	9
17-Jun-13	24.0	12	4	1.0	0.65	0.5	1	20	9.26	4	4
18-Jun-13	25.7	8	nr	0.3	0.66	0.5	1	20	9.39	<3	<3
19-Jun-13	27.2	9	<3	0.8	0.68	0.5	1	20	9.43	7	7
20-Jun-13	30.0	9	3	0.3	0.67	0.5	1	21	9.32	4	4
21-Jun-13	60.1	11	3	0.6	0.68	0.5	1	21	9.45	43	43
22-Jun-13	36.5	14	3	0.4	0.69	0.6	1	22	9.48	9	9
23-Jun-13	44.4	16	3	0.4	0.70	0.6	1	22	9.58	9	4
24-Jun-13	62.8	16	3	0.6	0.68	0.6	1	20	9.59	23	23
25-Jun-13	40.9	21	nr	0.4	0.62	0.6	1	22	9.55	43	43
26-Jun-13	72.9	12	nr	0.7	0.60	0.7	1	24	9.67	93	93
27-Jun-13	46.4	18	3	0.5	0.51	0.7	1	23	9.70	9	9
28-Jun-13	41.1	18	3	0.4	0.45	0.7	1	22	9.75	9	9
29-Jun-13	36.6	11	nr	0.4	0.36	0.7	1	22	9.91	4	4
30-Jun-13	32.0	15	nr	0.3	0.43	0.7	1	23	10.00	<3	<3
Max:	72.9										
Min:	22.8										
Average:	34.07	12	3	1.55	0.50			19	9.18		
Total Flow:	1022.1										
Geo.Mean:										10	10

Notes:

(1) Effluent ammonia load based upon Raw Sewage flows and Final Cell 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) Total Nitrogen results are calculated from TKN and nitrate values