

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
July 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-Jul-13	31.6	9	nr	0.3	0.26	0.7	1	24	10.20	930	930
2-Jul-13	31.0	6	nr	0.3	0.35	0.7	1	24	10.20	9	9
3-Jul-13	30.2	7	nr	1.5	0.29	0.7	1	25	10.10	<3	<3
4-Jul-13	29.6	10	nr	1.2	0.30	0.7	1	25	10.20	4	4
5-Jul-13	28.7	8	nr	3.2	0.33	0.7	1	25	10.10	<3	<3
6-Jul-13	27.6	9	nr	0.8	0.36	0.8	1	25	10.10	43	43
7-Jul-13	27.7	8	nr	0.3	0.40	0.8	1	24	9.96	52	11
8-Jul-13	27.9	6	<3	0.8	0.42	0.8	1	24	9.99	<3	<3
9-Jul-13	27.3	23	15	0.3	0.46	0.8	1	23	9.81	4	4
10-Jul-13	31.3	20	7	1.6	0.56	0.8	1	22	9.85	<3	<3
11-Jul-13	27.8	23	nr	0.3	0.43	0.8	1	22	9.86	3	<3
12-Jul-13	27.5	17	nr	0.3	0.44	0.8	1	23	9.86	4	4
13-Jul-13	26.6	14	nr	2.4	0.44	0.8	1	22	9.95	<3	<3
14-Jul-13	26.8	15	6	0.3	0.44	0.8	1	22	9.87	930	930
15-Jul-13	27.0	12	nr	0.3	0.39	0.7	1	23	9.90	16	11
16-Jul-13	26.8	12	4	0.3	0.43	0.7	1	23	9.90	4	4
17-Jul-13	26.2	10	nr	2.1	0.44	0.7	1	23	9.88	9	4
18-Jul-13	27.5	10	4	0.3	0.43	0.7	1	23	9.93	4	4
19-Jul-13	30.3	11	nr	0.3	0.48	0.7	1	22	9.85	23	23
20-Jul-13	26.1	14	<3	1.3	0.51	0.7	1	21	9.84	4	4
21-Jul-13	28.2	12	3	3.1	0.48	0.7	1	20	9.68	38	7
22-Jul-13	42.7	13	<3	0.4	0.49	0.7	1	20	9.85	<3	<3
23-Jul-13	29.4	10	<3	1.5	0.42	0.7	1	19	9.81	4	<3
24-Jul-13	28.0	7	<3	0.3	0.42	0.7	1	20	9.78	2,300	2,300
25-Jul-13	32.1	8	<3	0.3	0.41	0.7	1	20	9.92	4	4
26-Jul-13	28.4	10	<3	0.3	0.43	0.6	1	19	9.87	<3	<3
27-Jul-13	27.0	14	6	0.3	0.39	0.6	1	19	9.84	4	4
28-Jul-13	26.7	7	<3	0.3	0.37	0.6	1	19	9.91	4	4
29-Jul-13	26.5	7	<3	4.0	0.36	0.6	1	19	10.00	4	4
30-Jul-13	30.9	<4	<3	0.3	0.36	0.6	1	19	9.85	15	15
31-Jul-13	26.7	8	<3	0.3	0.37	0.6	1	20	9.89	4	4
Max:	42.7										
Min:	26.1										
Average:	28.78	11	3	0.93	0.41			22	9.93		
Total Flow:	892.3										
Geo.Mean:										9	7

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