

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
July 2012**

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-12	26.5	9	6	12.7	0.34	0.7	2	20	10.10	9	9
2-Jul-12	28.1	10	6	7.9	0.32	0.7	2	21	10.10	<3	<3
3-Jul-12	28.3	10	10	1.1	0.33	0.7	2	23	9.95	<3	<3
4-Jul-12	29.4	9	6	7.1	0.39	0.7	2	24	10.40	<3	<3
5-Jul-12	28.1	9	10	6.5	0.51	0.7	3	22	9.84	43	43
6-Jul-12	27.4	7	3	8.8	0.55	0.7	3	22	9.60	9	9
7-Jul-12	26.7	5	4	9.3	0.60	0.7	3	22	9.71	23	21
8-Jul-12	27.0	7	5	8.9	0.64	0.7	3	23	9.63	280	280
9-Jul-12	27.7	7	6	9.7	0.71	0.7	3	22	9.66	4	4
10-Jul-12	27.5	22	nr	4.7	0.66	0.7	3	23	9.71	43	9
11-Jul-12	28.0	14	11	7.0	0.73	0.7	3	23	9.73	23	23
12-Jul-12	28.3	13	10	4.0	0.74	0.7	3	23	9.53	23	23
13-Jul-12	27.9	15	11	3.9	0.79	0.7	3	22	9.49	15	7
14-Jul-12	27.4	14	11	2.2	0.76	0.7	3	23	9.51	<3	<3
15-Jul-12	29.7	12	18	9.2	0.87	0.7	3	23	9.54	43	43
16-Jul-12	30.0	8	7	18.3	1.12	0.7	3	20	9.30	21	21
17-Jul-12	28.2	8	8	13.2	1.33	0.8	3	20	9.12	23	23
18-Jul-12	28.2	8	8	14.7	1.42	0.8	3	21	9.12	23	23
19-Jul-12	28.4	10	8	9.7	1.39	0.8	3	21	9.13	23	23
20-Jul-12	28.0	12	9	3.4	1.35	0.8	3	23	9.17	230	43
21-Jul-12	26.4	10	8	2.9	1.25	0.8	3	22	9.18	2,100	1,200
22-Jul-12	27.0	10	7	0.5	1.24	0.9	3	23	9.23	21,000	1,500
23-Jul-12	27.0	11	6	0.5	1.15	0.9	3	23	9.32	23	23
24-Jul-12	26.3	12	7	1.1	1.14	0.9	3	23	9.28	9	9
25-Jul-12	26.4	11	6	2.4	1.19	1.0	3	23	9.15	9	9
26-Jul-12	25.5	6	5	5.6	1.31	1.0	3	22	9.11	75	75
27-Jul-12	25.3	6	5	4.6	1.43	1.0	3	21	9.04	750	750
28-Jul-12	24.5	5	4	6.6	1.48	1.1	3	22	8.99	7	7
29-Jul-12	25.5	5	nr	6.1	1.44	1.1	3	23	9.04	43	23
30-Jul-12	28.3	6	5	7.6	1.53	1.2	3	23	8.91	93	93
31-Jul-12	25.3	7	6	4.3	1.61	1.2	3	24	8.84	380	36
Max:	30.0										
Min:	24.5										
Average:	27.4	10	7	6.6	0.98			22	9.43		
Total Flow:	848.2										
Geo.Mean:										31	22

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