

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

April 2012

Date	Raw Sewage	Final Effluent 24 Hour Composite									Final Effluent Grab Sample			
	Daily Flow	TSS	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML	(mg/L)	(mg/L)	(mg/L-N)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)	(mg/L-P)*	(mg/L-N)	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Apr-12	26.3	64	14	0.02	1	0.07	0.6	0.5	3	5	6	9.73	9	9
2-Apr-12	24.1	58	13	<0.02	<1	0.06	0.6	0.5	2	5	8	nr	7	7
3-Apr-12	23.0	58	12	<0.02	<1	0.07	0.6	0.5	3	4	4	9.71	3	3
4-Apr-12	22.7	42	13	<0.02	<1	0.09	0.6	0.5	2	4	8	9.69	<3	<3
5-Apr-12	22.3	50	11	<0.02	<1	0.11	0.6	0.5	3	4	8	9.56	<3	<3
6-Apr-12	22.9	ns	ns	ns	ns	ns	ns	0.5	ns	4	9	9.65	<3	<3
7-Apr-12	21.8	ns	ns	ns	ns	ns	ns	0.5	ns	4	9	9.19	230	230
8-Apr-12	22.5	ns	ns	ns	ns	ns	ns	0.5	ns	4	7	8.84	43	43
9-Apr-12	22.4	ns	ns	ns	ns	ns	ns	0.4	ns	3	6	8.82	23	9
10-Apr-12	21.4	ns	ns	ns	ns	ns	ns	0.4	ns	3	4	9.38	9	9
11-Apr-12	21.4	34	9	<0.02	<1	0.18	0.6	0.4	3	3	4	9.21	15	15
12-Apr-12	21.4	34	8	<0.02	<1	0.19	0.5	0.4	3	3	5	9.13	<3	<3
13-Apr-12	26.6	36	8	0.03	1	0.20	0.6	0.4	4	3	5	9.36	<3	<3
14-Apr-12	26.7	34	8	<0.02	<1	0.20	0.5	0.4	3	3	7	9.00	<3	<3
15-Apr-12	24.6	26	10	<0.02	<1	0.22	0.7	0.4	4	3	8	9.04	15	15
16-Apr-12	22.9	30	10	<0.02	<1	0.21	0.7	0.4	4	3	5	9.18	15	15
17-Apr-12	23.6	24	9	0.13	3	0.21	0.7	0.5	4	3	6	8.95	23	4
18-Apr-12	40.5	14	10	<0.02	<1	0.22	0.6	0.5	4	3	6	8.88	43	23
19-Apr-12	27.8	18	7	0.11	3	0.25	0.6	0.5	3	3	6	8.80	9	9
20-Apr-12	25.6	26	8	0.43	11	0.27	0.6	0.5	4	3	7	8.72	9	9
21-Apr-12	24.9	23	7	0.15	4	0.27	0.6	0.5	4	3	7	8.53	23	23
22-Apr-12	24.8	22	8	0.18	4	0.29	0.7	0.5	4	3	8	8.37	43	43
23-Apr-12	23.6	19	8	0.17	4	0.29	0.6	0.5	4	3	9	8.19	9	9
24-Apr-12	23.0	12	6	0.25	6	0.32	0.7	0.5	4	3	11	8.10	29	29
25-Apr-12	22.9	22	6	0.18	4	0.29	0.7	0.5	4	3	11	8.19	43	43
26-Apr-12	22.4	18	7	0.05	1	0.26	0.6	0.5	4	3	10	8.30	43	7
27-Apr-12	22.1	23	7	<0.02	<1	0.23	0.6	0.5	4	3	9	8.43	4	4
28-Apr-12	22.6	28	8	0.03	1	0.22	0.7	0.5	4	3	8	8.57	43	15
29-Apr-12	23.2	31	8	0.26	6	0.24	0.6	0.5	4	3	10	8.47	23	9
30-Apr-12	24.5	30	8	<0.02	<1	0.20	0.6	0.5	4	3	10	8.42	430	93
Max:	40.5													
Min:	21.4													
Average:	24.2	31	9	0.08	2	0.21	0.6		4		7	8.91		
Geo.Mean:													13	9

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) Final Effluent flow data unavailable
- (6) Licence No. 2669 E RR
- (7) Total Nitrogen results are calculated from TKN and nitrate values.