

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
February 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
		(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Feb-13	19.0	<4	<3	74.0	0.27	0.3	6	0	7.20	150	150
2-Feb-13	20.0	<4	<3	76.8	0.28	0.3	7	1	7.11	230	230
3-Feb-13	20.1	<4	<3	73.9	0.28	0.3	7	0	7.25	200	110
4-Feb-13	19.8	<4	<3	72.9	0.30	0.3	7	0	7.12	230	93
5-Feb-13	19.0	<4	<3	73.8	0.32	0.3	7	0	7.14	230	230
6-Feb-13	19.0	4	<3	71.9	0.32	0.3	7	0	7.14	430	150
7-Feb-13	18.9	4	<3	70.2	0.32	0.4	7	1	7.15	93	93
8-Feb-13	19.0	4	<3	76.2	0.32	0.4	7	0	7.11	230	230
9-Feb-13	18.1	5	<3	64.5	0.33	0.4	7	1	7.22	150	150
10-Feb-13	21.9	<4	<3	68.0	0.32	0.4	7	1	7.14	93	43
11-Feb-13	19.2	<4	nr	67.6	0.33	0.4	7	0	7.07	nr	93
12-Feb-13	19.3	<4	<3	68.3	0.33	0.4	7	0	7.19	150	93
13-Feb-13	19.4	<4	<3	63.9	0.33	0.4	7	0	7.06	230	43
14-Feb-13	19.5	<4	3	66.4	0.33	0.4	8	0	7.15	150	43
15-Feb-13	19.7	4	<3	66.8	0.34	0.4	8	0	7.10	230	230
16-Feb-13	20.2	<4	<3	67.3	0.34	0.4	8	0	7.13	43	43
17-Feb-13	19.5	<4	<3	67.6	0.35	0.5	8	0	7.06	230	230
18-Feb-13	20.3	4	<3	68.6	0.35	0.5	8	1	7.10	430	93
19-Feb-13	18.9	4	3	57.7	0.35	0.5	8	0	7.14	100	75
20-Feb-13	19.1	4	3	64.2	0.35	0.5	8	0	7.08	210	120
21-Feb-13	19.2	4	3	63.3	0.36	0.5	8	0	7.03	230	230
22-Feb-13	19.4	5	<3	70.9	0.36	0.5	8	0	7.09	230	230
23-Feb-13	20.0	<4	nr	65.0	0.37	0.5	8	1	7.08	430	150
24-Feb-13	20.7	4	4	64.5	0.37	0.5	8	0	7.08	750	750
25-Feb-13	19.5	4	4	62.4	0.40	0.5	8	0	7.23	430	230
26-Feb-13	19.1	4	3	64.3	0.42	0.5	8	1	7.09	930	430
27-Feb-13	19.4	<4	<3	63.6	0.43	0.5	8	1	7.08	430	230
28-Feb-13	17.8	<4	3	61.5	0.45	0.5	8	1	7.28	430	150
Max:	21.9										
Min:	17.8										
Average:	19.46	<4	<3	68	0.34			0	7.13		
Total Flow:	544.9										
Geo.Mean:										231	139

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