

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

Licence 2669 E RR	Raw Sewage	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Daily Flow	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jan-13	19.9	5	<3	38.2	0.13	0.2	5	1	7.35	93	43		
2-Jan-13	19.7	<4	<3	37.2	0.13	0.2	5	1	7.32	9	9		
3-Jan-13	19.8	4	<3	46.4	0.13	0.2	5	1	7.29	93	23		
4-Jan-13	20.2	5	nr	40.1	0.13	0.2	5	1	7.26	43	43		
5-Jan-13	19.7	5	3	38.6	0.13	0.2	5	1	7.36	15	7		
6-Jan-13	22.1	<4	3	45.2	0.14	0.2	5	1	7.30	43	43		
7-Jan-13	20.2	4	4	43.8	0.14	0.2	5	1	7.28	75	38		
8-Jan-13	19.7	<4	<3	41.6	0.13	0.2	5	1	7.22	23	9		
9-Jan-13	19.6	<4	<3	46.5	0.14	0.2	5	1	7.44	230	21		
10-Jan-13	19.7	<4	<3	44.6	0.14	0.2	5	1	7.24	43	43		
11-Jan-13	20.5	8	<3	49.0	0.15	0.2	5	1	7.14	23	7		
12-Jan-13	20.5	ns	ns	ns	ns	0.2	5	1	7.28	9	9		
13-Jan-13	21.2	ns	ns	ns	ns	0.2	5	0	7.19	43	9		
14-Jan-13	20.1	<4	4	56.0	0.17	0.2	5	1	7.22	23	23		
15-Jan-13	19.8	<4	<3	56.2	0.17	0.2	5	1	7.25	43	43		
16-Jan-13	19.5	<4	<3	53.1	0.17	0.2	5	1	7.20	23	23		
17-Jan-13	19.6	<4	<3	57.4	0.19	0.2	5	1	7.20	23	7		
18-Jan-13	19.4	<4	<3	64.7	0.21	0.2	5	1	7.16	23	9		
19-Jan-13	19.9	<4	<3	65.5	0.20	0.2	6	1	7.17	15	7		
20-Jan-13	20.6	<4	<3	66.8	0.21	0.2	6	1	7.20	15	9		
21-Jan-13	19.8	<4	<3	66.6	0.21	0.2	6	1	7.09	15	15		
22-Jan-13	19.3	<4	nr	65.3	0.20	0.2	6	1	7.36	93	93		
23-Jan-13	19.4	<4	<3	63.6	0.21	0.2	6	1	7.37	15	15		
24-Jan-13	19.2	<4	<3	67.1	0.25	0.2	6	1	7.26	23	23		
25-Jan-13	19.2	<4	<3	68.5	0.23	0.2	6	1	7.17	93	43		
26-Jan-13	20.3	<4	<3	71.3	0.24	0.2	6	0	7.24	9	9		
27-Jan-13	20.7	4	<3	71.1	0.24	0.3	6	0	7.21	23	15		
28-Jan-13	19.5	4	<3	67.1	0.25	0.3	6	0	7.15	nr	93		
29-Jan-13	19.3	<4	<3	69.2	0.26	0.3	6	0	7.23	43	43		
30-Jan-13	19.3	<4	<3	70.5	0.26	0.3	6	0	7.21	93	93		
31-Jan-13	19.0	<4	<3	77.1	0.30	0.3	6	0	7.51	93	93		
Max:	22.1												
Min:	19.0												
Average:	19.9	<4	<3	56.8	0.19			1	7.25				
Total Flow:	616.5												
Geo.Mean:										33	21		

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