

City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
May 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-May-13	51.6	nr	12	7.7	<0.01	0.6	9	1	9.50	11	6		
2-May-13	38.3	25	12	5.8	<0.01	0.5	9	2	9.53	7	7		
3-May-13	34.1	20	11	3.8	<0.01	0.5	9	3	9.68	4	4		
4-May-13	32.3	23	11	1.3	<0.01	0.5	8	5	9.71	4	4		
5-May-13	31.7	22	11	1.6	<0.01	0.5	8	5	9.58	15	15		
6-May-13	29.4	18	11	0.3	<0.01	0.5	8	6	9.61	<3	<3		
7-May-13	27.8	16	10	0.3	<0.01	0.5	7	8	9.69	4	4		
8-May-13	26.7	30	10	0.3	<0.01	0.4	7	7	9.69	7	3		
9-May-13	25.8	25	10	2.6	0.02	0.4	7	8	9.54	9	9		
10-May-13	26.5	24	10	0.3	<0.01	0.4	6	7	9.59	9	9		
11-May-13	26.8	31	9	0.3	<0.01	0.4	6	7	9.44	4	4		
12-May-13	26.2	27	9	6.8	0.02	0.4	6	7	9.50	43	23		
13-May-13	25.3	54	4	0.3	0.02	0.4	6	8	9.31	43	43		
14-May-13	24.6	30	7	2.5	0.04	0.4	5	11	9.33	4	4		
15-May-13	24.1	25	8	0.2	0.03	0.3	5	13	9.09	43	43		
16-May-13	23.8	20	8	0.2	0.03	0.3	5	14	9.30	9	9		
17-May-13	24.0	20	7	1.9	0.06	0.3	5	15	9.32	9	9		
18-May-13	24.7	16	8	0.5	0.11	0.3	4	14	9.09	23	23		
19-May-13	29.1	18	7	1.7	0.12	0.3	4	14	9.00	43	43		
20-May-13	37.0	21	6	4.4	0.14	0.3	4	13	8.53	93	93		
21-May-13	42.5	20	nr	2.1	0.13	0.3	4	12	8.13	93	93		
22-May-13	29.8	16	5	2.7	0.11	0.3	3	14	8.31	23	23		
23-May-13	27.4	15	6	0.3	0.11	0.3	3	14	8.26	43	43		
24-May-13	27.1	14	5	nr	0.13	0.3	3	14	8.48	43	43		
25-May-13	27.5	16	4	4.1	0.15	0.3	3	15	8.27	43	43		
26-May-13	28.0	14	4	3.1	0.16	0.2	2	15	8.17	43	43		
27-May-13	27.4	12	<3	0.3	0.19	0.2	2	15	8.14	7	7		
28-May-13	27.7	13	<3	2.2	0.21	0.2	2	16	8.02	15	15		
29-May-13	27.7	10	<3	2.2	0.23	0.2	2	16	8.06	43	43		
30-May-13	36.9	19	3	nr	0.29	0.2	2	16	8.09	43	43		
31-May-13	62.3	20	3	0.6	0.23	0.2	2	16	8.10	230	230		
Max:	62.3												
Min:	23.8												
Average:	30.78	21	7	2.1	0.08			11	8.97				
Total Flow:	954.3												
Geo.Mean:										17	16		

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