

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
October 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
1-Oct-13	22.9	19	3	4.3	0.82	1.3	1	14	8.21	2,300	2,300
2-Oct-13	21.3	23	4	3.0	0.76	1.3	1	13	8.21	750	750
3-Oct-13	20.7	25	4	2.9	0.69	1.3	1	12	8.23	430	430
4-Oct-13	20.3	ns	ns	ns	ns	ns	ns	11	8.26	2,300	2,300
5-Oct-13	20.9	25	4	4.4	0.59	1.2	1	9	8.24	430	430
6-Oct-13	21.5	32	4	3.6	0.53	1.2	1	8	8.24	930	930
7-Oct-13	20.5	25	5	1.2	0.46	1.2	1	9	8.25	930	930
8-Oct-13	20.1	23	5	2.2	0.43	1.2	1	9	8.31	1,500	1,500
9-Oct-13	19.9	29	5	4.2	0.41	1.1	1	9	8.38	2,300	2,300
10-Oct-13	20.0	28	6	1.4	0.39	1.1	1	11	8.38	380	380
11-Oct-13	19.8	29	nr	3.8	0.40	1.1	1	12	8.36	430	430
12-Oct-13	25.4	31	5	5.9	0.39	1.0	1	12	8.31	24,000	24,000
13-Oct-13	20.8	23	7	3.3	0.37	1.0	1	10	8.31	110,000	110,000
14-Oct-13	21.5	22	nr	2.8	0.35	1.0	1	9	8.51	4,300	4,300
15-Oct-13	20.4	27	7	14.3	0.34	0.9	2	9	8.35	1,500	1,500
16-Oct-13	19.8	23	nr	3.4	0.28	0.9	2	8	8.36	930	210
17-Oct-13	20.1	24	8	0.2	0.25	0.9	2	8	8.32	750	750
18-Oct-13	20.2	18	nr	1.2	0.24	0.8	2	8	8.44	93	93
19-Oct-13	20.7	23	8	1.7	0.18	0.8	2	7	8.41	230	230
20-Oct-13	20.9	32	9	2.5	0.19	0.8	2	7	8.42	230	230
21-Oct-13	20.1	23	10	1.0	0.18	0.7	2	5	8.36	150	150
22-Oct-13	19.5	25	10	1.2	0.16	0.7	2	5	7.98	93	93
23-Oct-13	19.7	11	10	0.4	0.13	0.7	2	5	8.62	150	43
24-Oct-13	19.5	32	11	0.2	0.11	0.7	2	4	8.59	93	93
25-Oct-13	19.8	25	11	2.6	0.13	0.6	2	5	8.62	<3	<3
26-Oct-13	20.3	19	11	4.3	0.11	0.6	2	3	8.66	93	93
27-Oct-13	21.1	27	12	3.2	0.09	0.6	2	3	8.61	430	430
28-Oct-13	20.0	30	nr	2.4	0.09	0.6	2	2	8.53	93	93
29-Oct-13	19.2	29	12	8.3	0.09	0.5	3	2	8.56	230	93
30-Oct-13	19.5	26	12	7.2	0.21	0.5	3	1	8.62	23	23
31-Oct-13	19.3	30	14	9.8	0.04	0.5	3	2	7.96	93	93
<b>Max:</b>	25.4										
<b>Min:</b>	19.2										
<b>Average:</b>	<b>20.50</b>	<b>25</b>	<b>8</b>	<b>3.6</b>	<b>0.31</b>			<b>7</b>	<b>8.37</b>		
<b>Total Flow:</b>	<b>635.6</b>										
<b>Geo.Mean:</b>										<b>443</b>	<b>394</b>

**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