

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

**November 2010**

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-Nov-10	34.6	18	<2	2.79	96	0.60	0.8	1.5	6	7	2	8.19	230	230
2-Nov-10	32.9	9	<2	2.89	95	0.55	0.8	1.5	6	7	3	8.15	93	93
3-Nov-10	31.4	7	<2	2.85	90	0.54	0.7	1.4	7	7	4	8.31	93	93
4-Nov-10	30.5	8	<2	2.88	88	0.51	0.7	1.4	7	7	4	8.31	23	23
5-Nov-10	29.8	8	<2	2.90	86	0.48	0.7	1.3	7	7	3	8.46	43	43
6-Nov-10	30.1	10	<2	3.02	91	0.46	0.6	1.3	6	7	3	8.19	93	93
7-Nov-10	30.1	10	<2	2.98	90	0.45	0.6	1.3	8	7	4	8.07	23	23
8-Nov-10	28.4	6	<2	2.97	84	0.45	0.5	1.2	7	7	4	8.03	9	9
9-Nov-10	27.6	6	<2	2.81	77	0.43	0.6	1.2	6	7	5	8.04	9	9
10-Nov-10	27.0	8	<2	2.98	80	0.43	0.6	1.1	7	7	5	8.13	23	23
11-Nov-10	28.3	8	2	2.92	83	0.42	0.6	1.1	7	7	5	8.10	7	7
12-Nov-10	27.0	9	<2	3.18	86	0.44	0.6	1.1	6	7	4	8.32	15	15
13-Nov-10	27.4	nr	<2	3.12	85	0.42	0.6	1.0	6	7	3	8.10	23	23
14-Nov-10	28.4	8	2	2.95	84	0.42	0.6	1.0	6	7	3	8.17	9	4
15-Nov-10	27.2	5	2	3.07	83	0.41	0.4	0.9	6	7	2	8.11	23	4
16-Nov-10	26.5	<4	<2	3.10	82	0.42	0.5	0.9	6	7	1	8.10	4	4
17-Nov-10	25.8	4	<2	3.31	86	0.39	0.6	0.9	7	7	1	8.18	15	7
18-Nov-10	26.0	<4	<2	3.41	89	0.40	0.5	0.8	6	7	0	8.25	9	9
19-Nov-10	25.7	5	2	3.19	82	0.39	0.5	0.8	7	7	1	8.19	23	23
20-Nov-10	26.3	4	<2	3.29	87	0.39	0.5	0.8	7	7	1	8.12	23	9
21-Nov-10	29.6	<4	2	3.37	100	0.39	0.5	0.7	8	7	0	8.11	9	9
22-Nov-10	28.4	4	4	3.41	97	0.36	0.5	0.7	6	7	1	8.09	4	4
23-Nov-10	26.9	<4	2	3.37	91	0.36	0.5	0.7	7	7	1	7.97	9	4
24-Nov-10	26.6	4	3	3.58	95	0.36	0.5	0.7	7	7	1	8.09	7	<3
25-Nov-10	26.6	4	3	3.43	91	0.38	0.5	0.6	7	7	1	8.17	4	4
26-Nov-10	26.3	4	<2	3.73	98	0.37	0.5	0.6	7	7	1	8.02	23	23
27-Nov-10	27.1	<4	2	3.80	103	0.38	0.5	0.6	8	7	1	8.11	4	4
28-Nov-10	27.2	10	3	3.73	101	0.39	0.5	0.6	7	7	1	8.09	15	15
29-Nov-10	25.9	6	<2	4.02	104	0.40	0.6	0.6	8	7	1	7.98	4	4
30-Nov-10	25.9	4	<2	4.25	110	0.43	0.6	0.6	8	7	1	7.80	15	4
<b>Max:</b>	34.6													
<b>Min:</b>	25.7													
<b>Average:</b>	<b>28.0</b>	<b>6</b>	<b>&lt;2</b>	<b>3</b>	<b>90</b>	<b>0.43</b>	<b>0.6</b>		<b>7</b>		<b>2</b>	<b>8.13</b>		
<b>Geo.Mean:</b>													<b>16</b>	<b>12</b>

**Notes:**

- (1) \* = 30 day rolling average
- (2) Effluent ammonia load based upon Raw Sewage flows and Final Cell NH3-N concentrations
- (3) nr - not recorded or no result; na - not analyzed; ns - no sample
- (4) Final Effluent flow data unavailable
- (5) Where < values are reported 50% of the MDL is used for calculated results
- (6) Licence No. 2669 E RR
- (7) Total Nitrogen results are calculated from TKN and nitrate values.