

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

**January 2011**

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-Jan-11	23.6	7	5	6.33	149	1.34	1.7	1.3	11	10	0	7.55	430	430
2-Jan-11	23.7	6	4	6.10	145	1.31	1.8	1.4	11	10	0	7.36	93	93
3-Jan-11	24.7	8	4	6.06	150	1.30	1.7	1.4	10	10	0	7.51	230	230
4-Jan-11	23.6	8	4	5.97	141	1.30	1.7	1.4	10	10	0	7.42	380	150
5-Jan-11	24.0	6	3	5.87	141	1.26	1.7	1.5	10	10	0	7.41	150	20
6-Jan-11	23.4	8	5	5.50	128	1.23	1.7	1.5	10	10	0	7.41	23	23
7-Jan-11	23.2	8	4	5.38	125	1.18	1.6	1.5	10	10	1	7.38	23	23
8-Jan-11	23.9	8	3	5.21	125	1.13	1.6	1.6	9	10	0	7.41	15	15
9-Jan-11	24.6	10	5	4.97	122	1.13	1.5	1.6	9	10	0	7.49	23	23
10-Jan-11	23.3	7	5	4.76	111	1.06	1.4	1.6	9	10	1	7.55	23	23
11-Jan-11	23.1	9	5	4.15	96	1.00	1.3	1.6	8	10	1	7.42	9	9
12-Jan-11	23.0	9	5	5.19	119	0.98	1.3	1.6	9	10	0	7.46	43	43
13-Jan-11	22.7	11	6	4.46	101	1.03	1.4	1.6	8	10	0	7.49	23	23
14-Jan-11	22.6	8	4	4.28	97	0.92	1.3	1.6	8	10	0	7.45	43	43
15-Jan-11	23.7	12	5	4.16	99	0.90	1.3	1.6	8	10	0	7.51	23	23
16-Jan-11	24.5	9	5	4.02	98	0.86	1.2	1.6	9	10	0	7.44	93	93
17-Jan-11	22.9	6	5	3.94	90	0.81	1.1	1.6	9	10	1	7.43	23	4
18-Jan-11	22.4	8	5	3.81	85	0.81	1.1	1.6	9	10	1	7.37	43	43
19-Jan-11	22.5	6	4	3.94	88	0.79	1.1	1.5	8	10	0	7.38	21	11
20-Jan-11	22.5	6	4	3.55	80	0.77	1.1	1.5	9	10	0	7.37	43	43
21-Jan-11	22.6	5	3	3.97	90	0.83	1.2	1.5	10	9	0	7.37	43	43
22-Jan-11	23.7	7	<2	3.98	94	0.77	1.1	1.5	9	9	0	7.34	43	43
23-Jan-11	24.2	6	4	4.23	102	0.79	1.1	1.5	9	9	0	7.32	23	23
24-Jan-11	22.6	5	3	4.30	97	0.84	1.1	1.5	9	9	0	7.40	43	43
25-Jan-11	22.4	5	<2	4.20	94	0.77	1.1	1.4	9	9	1	7.30	38	38
26-Jan-11	22.5	5	3	4.39	99	0.78	1.0	1.4	9	9	0	7.28	150	43
27-Jan-11	22.6	<4	4	4.66	105	0.78	1.1	1.4	9	9	0	7.28	230	93
28-Jan-11	22.6	5	<2	4.57	103	0.79	1.1	1.4	9	9	0	7.39	230	230
29-Jan-11	23.6	5	3	4.81	114	0.79	1.1	1.3	10	9	0	7.31	43	43
30-Jan-11	23.9	6	3	5.29	126	0.80	1.1	1.3	10	9	0	7.26	9	4
31-Jan-11	23.0	4	4	4.88	112	0.78	1.1	1.3	9	9	0	7.31	93	93
<b>Max:</b>	24.7													
<b>Min:</b>	22.4													
<b>Average:</b>	<b>23.3</b>	<b>7</b>	<b>4</b>	<b>5</b>	<b>111</b>	<b>0.96</b>	<b>1.3</b>		<b>9</b>		<b>0</b>	<b>7.40</b>		
<b>Geo.Mean:</b>													<b>49</b>	<b>38</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.