

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

**May 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-May-11	64.0	15	3	0.60	38	0.24	0.5	0.6	2	4	7	8.29	75	75
2-May-11	59.2	14	2	0.71	42	0.35	0.5	0.5	2	4	5	8.23	23	23
3-May-11	50.5	12	2	0.80	40	0.32	0.5	0.5	2	4	8	8.11	4	4
4-May-11	47.5	12	3	0.91	43	0.35	0.4	0.5	2	3	9	8.13	93	93
5-May-11	45.3	10	2	0.88	40	0.36	0.5	0.5	2	3	10	8.05	9	9
6-May-11	43.2	8	3	0.79	34	0.35	0.5	0.5	2	3	12	8.07	23	23
7-May-11	42.2	7	3	0.78	33	0.38	0.5	0.5	2	3	12	8.05	75	75
8-May-11	40.9	8	2	0.74	30	0.37	0.5	0.5	2	3	12	8.13	23	23
9-May-11	55.0	7	2	0.81	45	0.37	0.5	0.5	2	3	13	8.02	9	9
10-May-11	45.6	7	2	0.43	20	0.37	0.5	0.5	2	3	13	8.18	93	93
11-May-11	41.7	10	3	0.41	17	0.37	0.5	0.5	2	3	14	8.29	43	43
12-May-11	39.5	7	4	0.71	28	0.64	0.8	0.5	2	3	12	8.32	4	4
13-May-11	39.1	10	4	0.82	32	0.43	0.5	0.5	2	3	10	8.29	4	4
14-May-11	39.2	6	5	0.26	10	0.40	0.5	0.5	2	3	9	8.57	15	15
15-May-11	38.8	6	3	0.19	7	0.41	0.5	0.5	2	2	11	8.69	4	4
16-May-11	39.0	7	3	0.31	12	0.43	0.6	0.5	2	2	12	8.67	<3	<3
17-May-11	37.2	9	3	0.32	12	0.38	0.7	0.5	3	2	15	8.65	<3	<3
18-May-11	37.3	8	4	0.30	11	0.53	0.7	0.5	2	2	15	8.79	<3	<3
19-May-11	37.1	6	2	0.35	13	0.57	0.7	0.5	2	2	15	8.73	4	4
20-May-11	36.7	12	4	0.46	17	0.69	0.8	0.5	2	2	18	8.74	<3	<3
21-May-11	43.2	10	4	0.51	22	0.83	1.0	0.6	2	2	19	8.67	4	4
22-May-11	61.0	11	4	0.50	30	0.94	1.1	0.6	1	2	17	8.63	9	9
23-May-11	49.1	11	4	0.57	28	1.05	1.3	0.6	1	2	17	8.67	<3	<3
24-May-11	43.8	9	4	0.71	31	1.16	1.4	0.6	3	2	15	8.56	9	9
25-May-11	40.6	9	6	0.65	26	1.25	1.4	0.7	1	2	15	8.58	<3	<3
26-May-11	39.6	9	6	0.66	26	1.16	1.4	0.7	1	2	15	8.51	<3	<3
27-May-11	39.5	12	5	0.87	34	1.26	1.5	0.7	1	2	14	8.59	<3	<3
28-May-11	37.5	9	5	0.86	32	1.28	1.5	0.8	1	2	14	8.55	<3	<3
29-May-11	37.7	10	5	1.36	51	1.31	1.6	0.8	2	2	13	8.50	4	4
30-May-11	44.0	12	5	2.32	102	1.38	1.5	0.8	2	2	13	8.59	4	4
31-May-11	61.9	24	4	1.06	66	1.37	1.6	0.9	2	2	14	8.37	43	43
<b>Max:</b>	64.0													
<b>Min:</b>	36.7													
<b>Average:</b>	<b>44.4</b>	<b>10</b>	<b>4</b>	<b>0.7</b>	<b>31</b>	<b>0.69</b>	<b>0.9</b>		<b>2</b>		<b>13</b>	<b>8.43</b>		
<b>Geo.Mean:</b>													<b>7</b>	<b>7</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.