

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
April, 2005**

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-Apr-05	76.1	12	13	24	1,800	4.81	4.7	5.3	31	31	2.0	7.53	93	93
2-Apr-05	82.1	12	13	23	1,900	4.56	4.6	5.3	27	31	3.0	7.56	430	430
3-Apr-05	85.8	14	14	20	1,700	4.47	4.8	5.3	28	31	3.0	7.73	230	230
4-Apr-05	84.7	15	15	20	1,700	4.31	nr	5.2	nr	30	5.0	7.59	230	230
5-Apr-05	81.9	21	16	nr	nr	nr	3.9	5.2	25	30	4.0	7.63	93	43
6-Apr-05	80.1	17	15	18	1,400	3.69	3.6	5.2	23	30	5.0	7.71	23	23
7-Apr-05	66.1	16	14	17	1,100	3.26	3.6	5.1	23	30	5.0	7.59	23	23
8-Apr-05	62.4	10	12	15	940	3.19	3.3	5.1	19	30	5.0	8.18	150	15
9-Apr-05	53.7	11	10	13	700	2.70	2.8	5.0	18	29	5.0	8.20	23	23
10-Apr-05	49.5	13	11	13	640	2.65	3.0	4.9	19	29	3.0	8.20	15	4
11-Apr-05	55.9	ns	ns	ns	ns	ns	ns	ns	ns	ns	5.0	7.56	9	4
12-Apr-05	78.2	11	11	12	940	2.57	2.7	4.8	16	28	10.0	8.47	43	9
13-Apr-05	77.6	13	10	15	1,200	3.23	nr	4.7	nr	28	7.0	8.34	43	9
14-Apr-05	70.0	17	10	11	770	2.43	2.3	4.6	16	27	8.0	8.45	230	230
15-Apr-05	54.2	12	9	11	600	2.34	2.2	4.5	14	27	11.0	8.42	21	21
16-Apr-05	49.2	11	8	11	540	2.46	2.5	4.4	16	26	10.0	8.28	43	23
17-Apr-05	47.6	6	5	11	520	2.34	2.2	4.3	14	26	12.0	7.55	230	230
18-Apr-05	46.1	11	4	11	510	2.39	2.5	4.2	14	25	10.0	7.63	150	75
19-Apr-05	42.8	13	4	10	430	2.35	2.7	4.1	15	25	11.0	8.41	43	43
20-Apr-05	41.9	7	7	8	340	1.94	2.3	4.0	13	24	12.0	7.45	230	230
21-Apr-05	nr	16	7	7	nr	2.02	2.0	3.9	12	23	12.0	7.53	230	230
22-Apr-05	nr	22	9	6	nr	1.90	2.2	3.8	12	23	11.0	8.23	930	230
23-Apr-05	41.0	29	9	5	200	1.85	2.0	3.7	11	22	9.0	9.10	430	150
24-Apr-05	41.6	20	8	5	210	1.77	2.2	3.6	11	21	12.0	9.25	230	230
25-Apr-05	nr	ns	ns	ns	ns	ns	ns	ns	ns	ns	10.0	8.63	93	93
26-Apr-05	nr	24	11	5	nr	1.77	2.2	3.4	11	21	10.0	8.79	43	43
27-Apr-05	36.5	36	10	4	150	1.74	2.2	3.3	11	20	10.0	8.92	430	230
28-Apr-05	35.6	35	10	4	140	1.71	2.1	3.2	11	19	6.0	9.48	23	23
29-Apr-05	35.0	30	12	4	140	1.70	1.7	3.0	10	19	8.0	9.56	21	21
30-Apr-05	36.5	29	11	4	150	1.67	1.6	3.0	9	18	6.0	9.54	93	93
<b>Total:</b>	1673													
<b>Max:</b>	85.8													
<b>Min:</b>	35.0													
<b>Average:</b>	<b>58.2</b>	<b>17</b>	<b>10</b>	<b>11</b>	<b>780</b>	<b>2.66</b>	<b>2.8</b>		<b>17</b>		<b>7.7</b>	<b>8.25</b>		
<b>Geo.Mean:</b>													<b>86</b>	<b>56</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; na - not analyzed; ns - no sample
  - (4) Final Effluent flow data unavailable
  - (5) April 20: effluent now discharged from Cell # 4
  - (6) Total flow includes an estimated 161 ML for April 21, 22, 25 & 26.