

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**September, 2006**

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-Sep-06	27.3	38	6	1	27	1.79	2.2	3.3	8	10	19	8.95	43	43
2-Sep-06	25.8	34	6	1	26	1.80	2.5	3.2	8	10	18	9.02	93	23
3-Sep-06	25.6	26	5	<1	<26	1.76	2.1	3.1	8	10	19	9.13	43	43
4-Sep-06	28.5	23	nr	<1	<29	1.54	2.2	3.0	8	10	19	9.11	230	230
5-Sep-06	28.6	24	5	<1	<29	1.36	2.0	2.8	8	10	19	9.11	43	43
6-Sep-06	26.8	26	5	<1	<27	1.29	2.2	2.7	8	9	20	9.07	430	430
7-Sep-06	26.6	33	9	<1	<27	1.14	1.9	2.6	(<6)	9	20	9.25	230	93
8-Sep-06	25.5	43	9	<1	<26	1.09	2.0	2.6	7	9	17	9.17	230	93
9-Sep-06	25.7	37	8	<1	<26	0.92	1.9	2.5	7	9	15	9.35	43	43
10-Sep-06	27.6	23	7	<1	<28	0.78	1.6	2.4	8	9	15	9.51	93	93
11-Sep-06	27.1	33	9	<1	<27	0.72	1.7	2.4	9	9	15	9.46	43	43
12-Sep-06	26.3	46	8	<1	<26	0.55	1.7	2.3	(<5)	9	15	9.55	150	150
13-Sep-06	25.5	52	7	<1	<26	0.45	1.6	2.2	6	9	16	9.56	150	150
14-Sep-06	25.8	55	9	<1	<26	0.40	1.7	2.2	9	9	17	9.57	230	230
15-Sep-06	25.2	56	7	<1	<25	0.38	1.4	2.1	7	9	18	9.79	150	150
16-Sep-06	27.6	58	8	<1	<28	0.36	1.3	2.1	7	9	19	9.82	430	430
17-Sep-06	38.5	57	7	<1	<39	0.39	1.3	2.1	7	9	18	9.88	4,300	4,300
18-Sep-06	35.1	59	10	<1	<35	0.41	1.4	2.0	7	9	15	9.67	430	430
19-Sep-06	29.2	52	7	<1	<29	0.46	1.4	2.0	6	9	17	9.63	930	930
20-Sep-06	27.1	42	7	1	27	0.47	1.5	2.0	7	9	11	9.64	150	150
21-Sep-06	25.8	41	6	<1	<26	0.68	1.1	1.9	5	8	11	9.57	43	43
22-Sep-06	24.6	34	6	<1	<25	0.72	1.2	1.9	5	8	11	9.56	43	43
23-Sep-06	24.9	35	6	<1	<25	0.69	1.3	1.8	6	8	12	9.72	43	43
24-Sep-06	25.8	36	6	<1	<26	0.71	1.4	1.8	7	8	11	9.84	230	230
25-Sep-06	25.3	37	5	<1	<25	0.71	1.3	1.8	6	8	11	9.76	430	430
26-Sep-06	24.7	32	6	1	25	0.77	1.6	1.8	8	8	11	9.77	23	23
27-Sep-06	24.4	38	5	<1	<24	0.76	1.5	1.8	6	8	10	9.65	430	430
28-Sep-06	24.7	37	5	<1	<25	0.77	1.6	1.7	9	8	10	9.27	43	43
29-Sep-06	25.5	30	6	1	26	0.83	1.6	1.7	6	8	10	9.23	23	23
30-Sep-06	25.1	25	4	1	25	0.85	1.3	1.6	5	7	10	9.65	93	43
<b>Total:</b>	806													
<b>Max:</b>	38.5													
<b>Min:</b>	24.4													
<b>Average:</b>	<b>26.9</b>	<b>39</b>	<b>7</b>	<b>&lt;1</b>	<b>&lt;27</b>	<b>0.85</b>	<b>1.6</b>		<b>7</b>		<b>15</b>	<b>9.48</b>		
<b>Geo.Mean:</b>													<b>132</b>	<b>116</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 R