

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
December, 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-Dec-06	23.2	8	6	22	510	4.23	5.0	4.8	28	23	1	8.48	43	43
2-Dec-06	24.2	9	7	23	557	4.29	5.6	4.8	29	24	1	8.48	150	93
3-Dec-06	25.0	9	7	23	575	4.20	5.6	4.8	30	24	0	8.49	93	93
4-Dec-06	23.5	8	7	24	564	4.42	4.8	4.9	33	25	1	8.36	210	210
5-Dec-06	23.0	9	6	25	575	4.46	5.5	4.9	29	25	1	8.29	430	430
6-Dec-06	23.1	13	6	25	578	4.57	4.8	4.9	32	25	1	8.32	>1600	110
7-Dec-06	23.0	8	6	26	598	4.56	5.0	4.9	33	26	0	8.35	49	12
8-Dec-06	23.1	8	7	26	601	4.72	5.2	5.0	33	27	1	8.23	130	21
9-Dec-06	24.4	8	6	26	634	4.74	5.3	5.0	33	27	1	8.23	79	79
10-Dec-06	24.9	7	5	26	647	4.85	4.7	5.0	31	27	1	8.14	130	79
11-Dec-06	23.5	7	6	26	611	4.90	4.8	5.0	30	28	2	8.11	170	12
12-Dec-06	23.1	10	5	27	624	4.97	5.6	5.1	38	28	4	8.05	46	46
13-Dec-06	23.2	7	5	28	650	5.03	5.3	5.1	35	29	4	8.04	>1600	>1600
14-Dec-06	23.1	7	5	28	647	5.00	5.4	5.1	35	29	2	7.90	33	33
15-Dec-06	23.3	6	5	28	652	4.95	5.6	5.2	36	30	2	8.00	33	33
16-Dec-06	24.3	5	3	29	705	5.12	5.7	5.2	36	30	2	7.92	22	22
17-Dec-06	25.3	5	4	28	708	4.95	5.6	5.2	36	31	2	7.90	22	22
18-Dec-06	23.8	4	4	29	690	5.21	6.9	5.3	45	31	1	8.07	22	11
19-Dec-06	23.1	5	4	30	693	5.33	6.1	5.3	39	32	2	7.91	33	17
20-Dec-06	23.3	4	4	29	676	5.45	5.4	5.3	32	32	2	7.90	11	4
21-Dec-06	23.4	<4	4	29	679	5.47	6.0	5.4	38	32	1	7.87	33	33
22-Dec-06	24.0	<4	3	29	696	5.48	5.7	5.4	41	33	1	ns	240	130
23-Dec-06	25.1	<4	3	30	753	5.49	5.8	5.4	39	33	1	7.71	49	49
24-Dec-06	25.2	4	2	29	731	5.44	5.9	5.4	39	34	2	7.76	79	17
25-Dec-06	22.7	4	3	30	681	5.77	6.1	5.4	41	34	2	7.76	23	23
26-Dec-06	23.6	<4	3	32	755	5.97	5.9	5.5	39	33	2	7.61	23	23
27-Dec-06	23.4	<4	3	32	749	5.77	6.0	5.5	37	34	2	7.66	33	17
28-Dec-06	23.2	4	4	32	742	5.81	6.0	5.5	36	34	2	7.66	46	46
29-Dec-06	23.3	4	3	32	746	5.98	6.0	5.5	37	35	3	7.69	49	49
30-Dec-06	23.1	ns	ns	ns	ns	ns	ns	5.5	ns	34	1	7.61	11	11
31-Dec-06	23.7	4	3	32	758	5.94	6.0	5.6	35	34	ns	ns	ns	ns
<b>Max:</b>	25.3													
<b>Min:</b>	22.7													
<b>Average:</b>	<b>23.7</b>	<b>6</b>	<b>5</b>	<b>28</b>	<b>659</b>	<b>5.10</b>	<b>5.6</b>		<b>35</b>		<b>2</b>	<b>8.02</b>		
<b>Geo.Mean:</b>													<b>66</b>	<b>40</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