

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**April 2009**

Date	Raw Sewage	Final Effluent									Final Effluent			
	Daily Flow	24 Hour Composite									Grab Sample			
	ML	TSS	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	(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-09	21.0	26	11	1.11	23	0.20	0.7	1.0	9	10	1	8.55	13	13
2-Apr-09	33.1	20	10	1.15	38	0.19	0.7	1.0	10	10	1	8.39	4	2
3-Apr-09	31.6	19	10	1.20	38	0.22	0.7	1.0	9	10	4	8.39	4	4
4-Apr-09	32.1	24	13	1.10	35	0.20	0.7	1.0	9	10	3	8.28	17	4
5-Apr-09	32.4	26	11	1.18	38	0.25	0.7	0.9	9	10	1	8.20	8	<2
6-Apr-09	31.6	24	nr	1.14	36	0.26	0.8	0.9	10	10	1	8.53	4	4
7-Apr-09	31.6	18	10	1.18	37	0.29	0.6	0.9	9	10	1	8.36	<2	<2
8-Apr-09	37.3	18	9	1.18	44	0.32	0.7	0.9	9	10	1	8.38	<2	<2
9-Apr-09	47.8	20	10	1.19	57	0.35	0.7	0.9	7	10	2	8.36	<2	<2
10-Apr-09	48.2	17	12	1.24	60	0.37	0.7	0.9	8	10	3	8.45	<2	<2
11-Apr-09	55.8	17	10	1.17	65	0.39	0.6	0.9	7	10	5	8.54	4	4
12-Apr-09	64.7	16	10	1.17	76	0.38	0.7	0.9	7	9	4	8.58	nr	nr
13-Apr-09	73.5	19	8	1.02	75	0.36	0.6	0.8	9	9	3	8.74	11	11
14-Apr-09	70.1	15	8	0.84	59	0.32	0.6	0.8	7	9	2	8.95	33	33
15-Apr-09	66.6	17	9	0.84	56	0.33	0.7	0.8	6	9	4	9.10	8	4
16-Apr-09	60.6	17	7	0.77	47	0.30	0.6	0.8	5	9	3	8.94	2	2
17-Apr-09	47.3	16	nr	0.76	36	0.31	0.8	0.8	7	9	5	9.00	8	8
18-Apr-09	41.4	16	7	0.75	31	0.31	0.7	0.7	5	8	4	8.87	8	8
19-Apr-09	39.1	21	5	0.71	28	0.30	0.7	0.7	7	8	2	8.76	11	7
20-Apr-09	36.4	19	5	0.72	26	0.30	0.7	0.7	7	8	3	8.86	2	<2
21-Apr-09	34.6	16	5	0.68	24	0.31	0.6	0.7	7	8	4	8.86	8	4
22-Apr-09	32.2	25	5	0.52	17	0.29	0.6	0.7	6	8	6	8.93	<2	<2
23-Apr-09	30.9	18	6	0.47	15	0.29	0.7	0.7	4	8	6	8.85	4	4
24-Apr-09	29.9	25	6	0.21	6	0.23	0.9	0.7	6	8	7	9.00	7	7
25-Apr-09	32.5	27	7	0.05	2	0.16	0.7	0.7	5	7	6	9.23	2	2
26-Apr-09	31.5	31	7	0.04	1	0.11	0.8	0.7	5	7	6	9.44	4	4
27-Apr-09	29.3	36	7	0.04	1	0.09	0.8	0.7	4	7	6	9.58	4	4
28-Apr-09	27.4	42	7	0.06	2	0.08	0.8	0.7	4	7	7	9.72	2	<2
29-Apr-09	27.0	49	9	0.05	1	0.10	0.8	0.7	2	7	7	9.95	<2	<2
30-Apr-09	38.6	55	10	0.04	2	0.12	0.8	0.7	2	7	8	10.10	8	4
<b>Max:</b>	73.5													
<b>Min:</b>	21.0													
<b>Average:</b>	<b>40.5</b>	<b>24</b>	<b>8</b>	<b>1</b>	<b>32</b>	<b>0.26</b>	<b>0.7</b>		<b>7</b>		<b>4</b>	<b>8.86</b>	<b>4</b>	<b>3</b>
<b>Geo.Mean:</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