

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

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-Aug-09	51.1	25	8	1.29	66	2.17	2.5	2.0	3	4	20	8.45	33	33
2-Aug-09	36.2	24	8	1.14	41	2.40	2.4	2.0	3	4	18	8.58	2	2
3-Aug-09	35.3	23	8	0.95	34	2.17	2.6	2.0	3	4	19	8.76	7	7
4-Aug-09	32.7	25	9	0.96	31	2.24	2.8	2.1	4	4	20	8.69	17	17
5-Aug-09	30.9	31	8	0.82	25	2.29	2.7	2.0	3	4	17	8.74	2	2
6-Aug-09	29.9	29	8	0.72	22	2.33	2.7	2.1	7	4	20	8.65	8	2
7-Aug-09	29.8	24	6	0.92	27	2.40	2.7	2.1	6	4	20	8.79	4	4
8-Aug-09	28.9	24	7	1.12	32	2.57	2.9	2.1	3	4	20	8.38	2	2
9-Aug-09	29.2	22	6	1.06	31	2.65	3.1	2.2	3	4	20	8.47	8	8
10-Aug-09	26.2	27	6	0.92	24	2.71	3.2	2.2	4	4	20	8.57	8	4
11-Aug-09	28.5	25	6	0.77	22	2.68	3.4	2.3	4	4	21	8.67	17	11
12-Aug-09	28.5	55	6	0.59	17	2.48	3.4	2.3	5	4	22	8.73	13	13
13-Aug-09	29.6	49	7	0.54	16	2.06	3.2	2.4	3	4	23	8.83	11	11
14-Aug-09	33.2	46	8	0.49	16	1.99	3.2	2.4	4	4	24	8.86	17	17
15-Aug-09	50.3	59	9	0.88	44	2.39	3.4	2.5	3	4	22	8.69	33	17
16-Aug-09	45.9	69	8	1.06	49	2.55	3.5	2.5	3	4	21	8.52	13	13
17-Aug-09	41.2	65	7	1.33	55	2.87	4.2	2.6	6	4	20	8.55	33	33
18-Aug-09	39.4	56	7	1.52	60	2.88	3.6	2.7	5	4	18	8.31	33	11
19-Aug-09	39.8	47	7	1.53	61	2.81	3.6	2.7	5	4	19	8.54	13	13
20-Aug-09	49.2	54	7	1.47	72	2.98	3.6	2.8	3	4	19	8.68	33	33
21-Aug-09	57.6	48	6	1.69	97	2.87	3.7	2.8	4	4	19	8.49	140	79
22-Aug-09	42.7	54	9	1.37	59	2.81	3.5	2.9	5	4	18	8.52	130	<2
23-Aug-09	37.4	44	7	1.32	49	2.59	3.4	2.9	3	4	18	8.56	46	23
24-Aug-09	41.0	41	6	1.58	65	2.69	3.4	3.0	5	4	20	9.00	130	79
25-Aug-09	36.3	41	6	1.59	58	2.55	3.1	3.0	5	4	19	8.62	79	79
26-Aug-09	33.1	29	7	1.27	42	2.38	3.0	3.1	5	4	19	8.80	17	17
27-Aug-09	31.4	38	8	1.32	41	2.41	3.2	3.1	4	4	20	8.80	21	21
28-Aug-09	30.3	38	9	0.91	28	2.84	3.0	3.1	4	4	19	8.80	33	33
29-Aug-09	32.1	36	8	0.90	29	2.05	2.8	3.1	4	4	19	8.90	330	170
30-Aug-09	30.8	35	7	0.59	18	1.97	2.5	3.1	5	4	19	9.07	13	13
31-Aug-09	30.2	41	6	0.54	16	1.62	2.3	3.1	5	4	19	9.06	33	33
<b>Max:</b>	57.6													
<b>Min:</b>	26.2													
<b>Average:</b>	<b>36.1</b>	<b>39</b>	<b>7</b>	<b>1.1</b>	<b>40</b>	<b>2.46</b>	<b>3.1</b>		<b>4</b>		<b>20</b>	<b>8.68</b>		
<b>Geo.Mean:</b>													<b>19</b>	<b>13</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