

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**July 2008**

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-Jul-08	29.7	10	5	9	268	3.80	3.9	3.0	13	9	23	8.10	4	4
2-Jul-08	28.4	13	5	8	236	3.72	4.1	3.1	11	9	22	8.18	<3	<3
3-Jul-08	27.9	9	7	8	220	3.54	3.9	3.1	10	9	21	8.26	4	<3
4-Jul-08	28.1	11	7	7	190	3.33	3.7	3.2	9	10	22	8.74	<3	<3
5-Jul-08	27.4	17	10	6	165	3.02	3.4	3.2	9	10	22	8.84	9	9
6-Jul-08	27.4	16	7	5	147	2.84	3.2	3.3	9	10	23	8.80	<3	<3
7-Jul-08	33.9	17	7	6	189	2.82	3.4	3.3	9	10	21	8.67	4	4
8-Jul-08	30.6	15	9	6	175	2.80	3.4	3.4	8	10	19	8.44	<3	<3
9-Jul-08	28.7	20	7	6	173	2.97	3.4	3.4	10	10	19	8.21	<3	<3
10-Jul-08	28.0	12	9	6	170	3.05	3.4	3.5	13	10	20	8.02	<2	<2
11-Jul-08	30.9	21	9	6	196	3.25	3.4	3.5	8	11	nr	7.98	4	2
12-Jul-08	31.2	24	6	7	209	3.32	3.3	3.5	10	11	19	7.95	13	13
13-Jul-08	37.2	26	4	7	252	3.34	3.8	3.5	12	11	17	7.95	70	30
14-Jul-08	30.4	25	5	7	223	3.33	3.7	3.6	12	11	19	7.89	50	11
15-Jul-08	30.8	21	5	7	215	3.30	3.7	3.6	10	11	19	7.88	4	4
16-Jul-08	29.6	16	4	7	212	3.38	3.6	3.6	9	11	20	7.85	4	2
17-Jul-08	29.0	18	3	7	205	3.42	3.9	3.6	8	11	20	7.84	11	11
18-Jul-08	24.5	16	5	7	175	3.55	3.9	3.7	9	11	20	7.89	13	13
19-Jul-08	27.2	12	5	7	187	3.55	3.9	3.7	8	11	21	7.90	23	23
20-Jul-08	27.6	11	4	7	204	3.75	4.2	3.7	12	11	22	7.97	2	2
21-Jul-08	27.9	11	4	7	201	3.86	4.2	3.7	12	11	23	7.98	50	21
22-Jul-08	26.8	9	3	8	210	4.05	4.2	3.8	10	11	24	8.16	8	4
23-Jul-08	28.0	21	3	8	225	4.13	4.4	3.8	16	11	23	8.07	17	17
24-Jul-08	27.4	24	3	8	220	4.13	4.4	3.8	10	11	22	7.98	30	2
25-Jul-08	27.2	26	4	8	215	4.21	4.5	3.8	17	11	22	8.02	8	8
26-Jul-08	25.9	21	4	8	206	4.18	4.5	3.8	9	11	22	8.05	80	4
27-Jul-08	25.9	15	3	8	206	4.22	4.4	3.9	7	11	22	8.09	7	2
28-Jul-08	26.4	19	3	8	206	4.21	4.5	3.9	7	11	23	8.17	17	17
29-Jul-08	29.1	34	4	7	217	4.05	4.7	3.9	15	11	23	8.14	50	50
30-Jul-08	26.5	27	4	7	195	4.08	4.4	3.9	12	10	22	8.18	nr	<2
31-Jul-08	26.6	18	4	7	181	3.98	4.4	3.9	12	10	23	8.41	30	2
<b>Max:</b>	37.2													
<b>Min:</b>	24.5													
<b>Average:</b>	<b>28.6</b>	<b>18</b>	<b>5</b>	<b>7.1</b>	<b>203</b>	<b>3.59</b>	<b>3.9</b>		<b>11</b>		<b>21</b>	<b>8.15</b>		
<b>Geo.Mean:</b>													<b>8</b>	<b>5</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