

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**November, 2005**

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-Nov-05	26.7	10	6	10	267	2.69	2.9	2.0	14	10	9.0	8.17	4	4
2-Nov-05	26.7	12	5	10	267	2.76	3.1	2.1	17	10	9.0	8.19	9	9
3-Nov-05	26.5	8	3	10	265	2.79	3.2	2.2	17	11	9.0	8.52	4	<3
4-Nov-05	26.5	10	4	10	265	2.73	2.8	2.2	15	11	9.0	8.29	4	4
5-Nov-05	27.9	9	4	11	307	2.74	3.0	2.3	19	12	6.5	8.26	23	9
6-Nov-05	28.8	8	4	11	317	2.69	2.9	2.3	20	12	6.0	8.29	43	9
7-Nov-05	26.9	10	5	11	296	2.77	3.1	2.4	16	13	9.0	8.34	23	23
8-Nov-05	28.3	12	4	12	340	2.83	3.1	2.4	16	13	4.0	8.27	4	4
9-Nov-05	32.7	5	4	12	392	2.96	3.1	2.5	16	13	8.0	8.31	9	4
10-Nov-05	28.0	10	3	12	336	2.85	2.8	2.5	17	14	8.0	8.21	43	15
11-Nov-05	28.8	12	5	12	346	2.75	2.7	2.6	16	14	5.0	8.29	23	9
12-Nov-05	27.6	10	3	12	331	2.70	2.6	2.6	15	14	8.0	8.31	4	4
13-Nov-05	28.6	nr	4	13	372	2.72	2.8	2.6	19	14	3.5	8.33	15	9
14-Nov-05	27.5	10	4	14	385	2.71	2.7	2.6	19	15	6.0	8.28	43	43
15-Nov-05	27.0	10	4	14	378	2.67	2.8	2.6	19	15	3.0	8.31	93	93
16-Nov-05	26.4	12	5	14	370	2.67	2.6	2.7	18	15	2.0	8.33	23	23
17-Nov-05	26.2	12	4	15	393	2.76	2.8	2.7	20	16	6.0	8.37	23	23
18-Nov-05	26.6	6	4	15	399	2.74	2.6	2.7	18	16	2.0	8.29	93	43
19-Nov-05	28.3	9	5	15	425	2.75	2.6	2.7	19	16	3.0	8.32	23	4
20-Nov-05	32.6	5	5	16	522	2.68	2.6	2.7	19	16	3.0	8.33	7	7
21-Nov-05	31.9	4	4	17	542	2.72	2.6	2.7	21	17	6.0	8.34	7	7
22-Nov-05	29.9	<4	3	17	508	2.65	2.6	2.7	21	17	5.0	8.35	9	9
23-Nov-05	30.3	<4	3	18	545	2.69	2.5	2.7	21	17	5.0	8.29	43	43
24-Nov-05	29.1	<4	3	18	524	2.70	2.6	2.7	21	17	5.0	8.29	23	23
25-Nov-05	28.6	<4	4	19	543	2.79	2.6	2.7	22	18	4.0	8.26	23	23
26-Nov-05	29.2	4	3	19	555	2.77	3.0	2.7	24	18	4.0	8.27	93	93
27-Nov-05	29.7	4	4	19	564	2.66	2.9	2.7	25	19	4.0	8.31	93	4
28-Nov-05	27.8	4	4	20	556	2.73	3.0	2.8	25	19	4.0	8.28	23	23
29-Nov-05	26.8	4	4	20	536	2.65	3.0	2.8	24	19	3.0	8.27	75	75
30-Nov-05	26.6	5	3	21	559	2.65	2.6	2.8	23	19	3.0	8.31	9	9
<b>Total:</b>	849													
<b>Max:</b>	32.7													
<b>Min:</b>	26.2													
<b>Average:</b>	<b>28.3</b>	<b>7</b>	<b>4</b>	<b>14.6</b>	<b>413</b>	<b>2.73</b>	<b>2.8</b>		<b>19</b>		<b>5.4</b>	<b>8.30</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