

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
December, 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-Dec-05	26.7	8	4	21	561	2.61	2.7	2.7	25	20	4.0	8.24	4	<3
2-Dec-05	26.4	5	4	21	554	2.67	2.9	2.7	27	20	3.0	8.27	4	<3
3-Dec-05	27.3	5	4	22	601	2.68	2.8	2.7	28	20	2.0	8.33	8	8
4-Dec-05	28.4	7	5	23	653	2.65	3.1	2.7	30	21	3.0	8.38	9	4
5-Dec-05	26.8	6	5	23	616	2.66	3.1	2.7	30	21	3.0	8.32	9	4
6-Dec-05	25.7	5	nr	24	617	2.68	3.0	2.7	29	21	3.0	8.28	9	9
7-Dec-05	26.1	8	6	24	626	2.81	2.9	2.7	27	22	4.0	8.29	9	4
8-Dec-05	26.3	8	5	25	658	2.78	2.7	2.7	27	22	4.0	8.33	9	9
9-Dec-05	26.2	7	5	25	655	2.88	3.0	2.7	30	23	5.0	8.31	9	9
10-Dec-05	27.3	6	6	25	683	2.87	2.8	2.7	27	23	4.0	8.35	4	4
11-Dec-05	27.7	7	6	24	665	2.82	3.4	2.8	34	23	3.5	8.29	9	9
12-Dec-05	25.9	6	6	24	622	2.87	3.1	2.8	30	24	5.0	8.27	15	15
13-Dec-05	25.7	ns	ns	ns	nr	ns	ns	ns	ns	ns	5.0	8.26	7	7
14-Dec-05	25.4	8	7	25	635	3.14	3.1	2.8	29	24	5.0	8.35	43	23
15-Dec-05	25.3	6	7	24	607	2.99	3.1	2.8	29	25	3.0	8.32	43	15
16-Dec-05	25.1	<4	7	25	628	3.25	3.3	2.9	31	25	3.0	8.26	23	23
17-Dec-05	26.8	ns	ns	ns	nr	ns	ns	ns	ns	ns	3.0	8.17	93	15
18-Dec-05	27.1	ns	ns	ns	nr	ns	ns	ns	ns	ns	3.0	7.36	23	9
19-Dec-05	26.2	6	6	25	655	3.23	3.3	2.9	31	25	3.0	8.32	43	23
21-Dec-05	25.3	15	5	26	658	3.28	3.1	2.9	29	26	3.0	8.34	93	43
21-Dec-05	25.7	6	5	26	668	3.33	3.4	2.9	34	26	3.0	8.29	93	93
22-Dec-05	25.8	4	5	26	671	3.51	3.5	2.9	31	27	3.0	8.34	23	23
23-Dec-05	27.2	4	5	27	734	3.58	3.3	3.0	30	27	3.0	7.77	150	38
24-Dec-05	28.3	4	4	27	764	3.57	3.8	3.0	29	27	nr	nr	43	23
25-Dec-05	25.1	4	5	27	678	3.61	3.5	3.0	30	28	3.0	7.73	93	93
26-Dec-05	25.8	4	4	26	671	3.60	3.6	3.1	27	28	4.0	7.65	93	23
27-Dec-05	26.1	<4	4	26	679	3.64	3.5	3.1	26	28	3.0	7.56	43	23
28-Dec-05	25.4	4	4	26	660	3.76	nr	nr	30	28	3.0	7.79	430	75
29-Dec-05	25.4	4	4	26	660	3.78	nr	nr	29	28	4.0	7.72	120	93
30-Dec-05	25.6	4	4	26	666	3.76	3.7	3.2	30	29	4.0	7.65	430	230
31-Dec-05	26.6	4	4	26	692	3.85	3.8	3.2	31	29	3.0	7.73	430	430
Total:	815													
Max:	28.4													
Min:	25.1													
Average:	26.3	6	5	25	651	3.17	3.2		29		3.5	8.11		
Geo.Mean:													30	18

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