

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
December 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-Dec-08	24.9	11	5	0.31	8	0.64	0.9	0.9	2	3	0.6	9.13	2	2
2-Dec-08	24.5	11	6	0.29	7	0.65	0.9	0.9	2	3	1.6	8.93	<2	<2
3-Dec-08	24.3	10	<4	0.39	9	0.63	1.1	0.9	4	3	0.5	8.82	2	2
4-Dec-08	23.9	10	5	0.49	12	0.63	1.5	0.9	2	3	0.4	8.91	2	2
5-Dec-08	27.7	10	5	0.42	12	0.69	1.0	0.9	2	3	0.5	8.63	<2	<2
6-Dec-08	24.9	11	4	0.47	12	0.67	1.0	0.9	2	3	-0.1	8.60	2	2
7-Dec-08	25.1	7	5	0.61	15	0.66	1.0	0.9	2	3	0.6	8.53	2	2
8-Dec-08	24.8	8	6	0.64	16	0.69	1.0	0.9	2	3	-0.1	8.63	2	<2
9-Dec-08	23.5	13	5	0.71	17	0.69	1.1	0.9	3	3	-0.1	8.38	7	7
10-Dec-08	23.6	13	5	0.78	18	0.68	1.0	0.9	2	3	0.0	8.25	<2	<2
11-Dec-08	23.5	14	4	0.96	23	0.77	1.2	0.9	5	3	-0.5	8.28	<2	<2
12-Dec-08	23.6	22	7	1.25	29	0.88	1.0	0.9	5	3	0.1	8.17	<2	<2
13-Dec-08	24.7	ns	ns	ns	ns	ns	ns	0.9	ns	3	0.3	8.00	<2	<2
14-Dec-08	25.1	ns	ns	ns	ns	ns	ns	0.9	ns	3	0.1	8.04	2	2
15-Dec-08	23.8	23	6	1.31	31	0.77	1.1	0.9	5	3	-0.4	7.79	2	2
16-Dec-08	23.6	<4	4	1.57	37	0.79	0.7	0.9	6	3	-0.5	7.86	<2	<2
17-Dec-08	23.5	7	3	1.47	34	0.71	1.0	0.9	4	3	-0.6	7.75	8	8
18-Dec-08	23.2	<4	4	1.47	34	0.72	1.0	1.0	4	3	-0.5	7.68	<2	<2
19-Dec-08	23.5	<4	4	1.57	37	0.74	1.0	1.0	4	3	-0.6	7.79	4	4
20-Dec-08	24.7	<4	3	1.71	42	0.74	1.0	1.0	5	3	-0.5	7.63	23	8
21-Dec-08	24.6	<4	3	1.76	43	0.75	1.1	1.0	7	3	-0.3	7.74	8	8
22-Dec-08	23.4	<4	3	1.85	43	0.74	1.1	1.0	5	3	-0.9	7.60	7	4
23-Dec-08	23.3	<4	3	2.01	47	0.74	1.0	1.0	6	4	-0.5	7.51	22	14
24-Dec-08	24.5	<4	<2	2.64	65	0.90	1.1	1.0	6	4	-1.0	7.86	33	13
25-Dec-08	22.4	17	3	2.18	49	0.71	0.9	1.0	5	4	-0.6	7.66	33	17
26-Dec-08	22.8	<4	3	2.48	57	0.74	0.9	1.0	4	4	1.1	nr	33	17
27-Dec-08	23.2	4	2	2.27	53	0.69	0.9	1.0	5	4	0.3	7.47	46	21
28-Dec-08	23.4	<4	3	2.33	54	0.67	0.9	1.0	5	4	-0.1	7.58	110	110
29-Dec-08	23.0	<4	3	2.40	55	0.65	0.7	1.0	5	4	0.0	7.52	27	27
30-Dec-08	22.7	<4	3	2.40	54	0.64	0.9	1.0	5	4	-0.2	7.47	33	33
31-Dec-08	23.5	4	3	2.54	60	0.64	0.9	1.0	5	4	0.1	7.42	49	<2
Max:	27.7													
Min:	22.4													
Average:	24.0	8	4	1.4	34	0.71	1.0		4.2		0.0	8.05	5	4
Geo.Mean:														

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