

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
March 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-Mar-09	23.8	16	10	3.03	72	0.46	1.0	1.0	8	9	0	7.63	110	49
2-Mar-09	22.2	17	11	3.19	71	0.48	1.1	1.0	8	9	-1	7.57	79	49
3-Mar-09	21.6	16	11	3.18	69	0.48	1.0	1.0	8	9	0	7.61	170	27
4-Mar-09	22.1	18	11	3.08	68	0.49	0.9	1.0	8	9	0	7.77	130	79
5-Mar-09	22.4	21	11	3.07	69	0.48	1.1	1.0	9	9	1	7.86	130	130
6-Mar-09	22.6	24	16	2.97	67	0.46	1.1	1.0	9	9	3	7.78	79	49
7-Mar-09	23.7	10	14	3.18	75	0.47	1.1	1.0	9	9	1	7.84	330	330
8-Mar-09	24.4	24	14	3.18	78	0.46	1.1	1.0	9	9	-1	7.84	49	17
9-Mar-09	23.0	25	14	3.01	69	0.43	0.9	1.0	8	9	0	8.16	79	11
10-Mar-09	21.4	27	15	3.23	69	0.45	1.2	1.0	9	9	-1	8.08	49	11
11-Mar-09	22.9	26	14	3.42	78	0.46	0.8	1.0	9	9	-1	7.99	70	46
12-Mar-09	22.4	25	14	3.49	78	0.46	1.1	1.0	10	9	-1	8.04	130	9
13-Mar-09	22.7	27	13	3.43	78	0.44	0.9	1.0	11	9	3	8.14	13	4
14-Mar-09	25.3	23	17	3.22	81	0.43	1.2	1.0	12	9	2	8.14	33	11
15-Mar-09	30.5	30	14	3.09	94	0.42	1.3	1.0	12	9	0	8.13	17	7
16-Mar-09	35.0	33	nr	2.97	104	0.40	1.1	1.0	11	9	0	8.33	33	13
17-Mar-09	37.7	42	19	2.76	104	0.37	1.2	1.0	11	9	1	8.37	49	49
18-Mar-09	25.6	31	19	2.51	64	0.34	1.2	1.0	11	9	1	8.41	79	27
19-Mar-09	23.8	40	19	2.31	55	0.32	1.3	1.0	10	9	1	8.46	4	<2
20-Mar-09	27.3	ns	ns	ns	ns	ns	ns	1.0	ns	9	4	8.54	8	2
21-Mar-09	33.1	ns	ns	ns	ns	ns	ns	1.0	ns	9	5	8.34	4	4
22-Mar-09	46.9	ns	ns	ns	ns	ns	ns	1.0	ns	9	2	8.38	<2	<2
23-Mar-09	69.6	52	25	1.51	105	0.21	1.2	1.1	12	9	2	8.47	<2	<2
24-Mar-09	74.3	43	19	1.36	101	0.19	1.0	1.1	11	10	1	8.38	<2	<2
25-Mar-09	37.9	24	18	1.88	71	0.44	1.0	1.1	11	10	0	8.25	2	2
26-Mar-09	31.7	19	17	1.13	36	0.15	0.9	1.1	9	10	0	8.36	11	8
27-Mar-09	29.5	36	18	1.16	34	0.17	0.8	1.1	9	10	1	8.41	70	14
28-Mar-09	29.4	22	13	1.08	32	0.14	0.7	1.0	9	10	2	8.35	280	170
29-Mar-09	30.3	20	12	1.05	32	0.14	0.6	1.0	9	10	1	8.31	79	79
30-Mar-09	27.9	27	13	1.17	33	0.16	0.5	1.0	10	10	1	8.54	23	23
31-Mar-09	27.5	22	11	1.06	29	0.16	0.5	1.0	9	10	1	8.44	13	13
Max:	74.3													
Min:	21.4													
Average:	30.3	26	15	2	68	0.36	1.0		10		1	8.16	29	15
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