

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 2008

Date	Raw Sewage	Final Effluent 24 Hour Composite										Final Effluent Grab Sample			
	Daily Flow	TSS	BOD5	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML**	(mg/L)	(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-08	47.2	13	18	10	30	1,417	4.51	5.1	5.6	38	37	13	6.04	740	740
2-Mar-08	48.0	17	20	9	29	1,391	4.21	5.0	5.5	36	37	13	6.66	1,500	1,500
3-Mar-08	47.4	14	18	9	28	1,327	4.50	5.2	5.6	35	37	13	6.72	920	920
4-Mar-08	49.9	12	14	7	29	1,446	4.95	5.4	5.6	36	37	13	6.80	360	360
5-Mar-08	45.2	13	18	8	31	1,402	5.73	6.1	5.6	37	37	13	6.71	920	920
6-Mar-08	47.1	15	18	9	31	1,459	5.68	6.3	5.7	38	37	13	6.94	nr	nr
7-Mar-08	47.4	11	15	7	31	1,470	5.14	5.8	5.7	38	37	13	6.70	23	23
8-Mar-08	49.4	12	18	12	30	1,481	4.71	5.3	5.7	38	37	12	6.82	920	920
9-Mar-08	49.7	13	21	11	31	1,540	4.49	11.0	5.8	37	37	12	6.86	2,300	920
10-Mar-08	49.7	15	21	10	28	1,393	4.34	nr	5.9	27	36	13	6.66	2,300	920
11-Mar-08	49.4	13	16	10	29	1,432	4.88	5.5	5.9	29	36	13	6.70	92	92
12-Mar-08	50.5	20	17	10	28	1,415	4.64	5.3	5.9	37	36	13	6.69	360	360
13-Mar-08	52.9	17	18	9	28	1,481	5.10	6.0	6.0	31	36	13	6.80	36	36
14-Mar-08	48.6	18	17	12	27	1,311	4.60	5.6	5.9	29	36	13	6.73	920	920
15-Mar-08	48.0	17	19	12	30	1,441	4.64	5.7	5.9	32	35	13	6.76	na	230
16-Mar-08	48.7	14	18	11	30	1,461	4.42	5.3	5.9	28	35	13	6.82	360	360
17-Mar-08	46.5	15	20	12	31	1,441	4.44	5.4	5.9	29	35	13	6.72	920	920
18-Mar-08	56.3	14	16	9	32	1,802	4.73	5.6	5.9	31	35	14	6.74	920	920
19-Mar-08	50.5	11	14	8	29	1,465	4.80	5.6	5.9	32	35	12	6.79	230	230
20-Mar-08	50.5	13	16	10	30	1,515	5.01	6.6	6.0	38	35	14	6.83	2,300	2,300
21-Mar-08	51.8	19	19	13	30	1,553	4.37	6.6	6.0	30	34	14	6.87	2,300	2,300
22-Mar-08	47.4	13	21	13	29	1,374	3.88	4.8	5.9	31	34	13	6.78	920	920
23-Mar-08	47.9	13	22	15	29	1,389	4.12	5.2	5.9	31	34	13	6.91	2,300	2,300
24-Mar-08	47.7	22	21	13	31	1,478	4.61	5.4	5.8	30	34	13	6.90	3,600	3,600
25-Mar-08	48.8	18	22	12	32	1,561	5.10	5.8	5.9	31	34	13	6.80	920	920
26-Mar-08	45.6	22	21	13	32	1,458	5.46	6.4	5.9	40	34	13	6.86	2,300	2,300
27-Mar-08	45.2	23	24	13	32	1,448	6.45	7.1	5.9	41	34	13	6.75	2,300	2,300
28-Mar-08	48.0	31	23	15	32	1,536	6.42	5.8	5.9	37	34	13	6.91	740	740
29-Mar-08	53.1	24	25	21	29	1,541	4.51	5.5	5.9	40	34	13	6.94	1,500	1,500
30-Mar-08	86.8	25	25	15	19	1,649	2.59	3.2	5.8	27	34	13	6.97	3,600	3,600
31-Mar-08	55.2	25	27	16	22	1,214	3.10	4.0	5.7	30	33	10	6.87	920	920
Max:	86.8														
Min:	45.2														
Average:	48.8	17	19	11	29	1,461	4.71	5.7		34		13	6.78		
Geo.Mean:														808	729

Notes:

- (1) effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations.
- (4) * = 30 day rolling average
- (5)** Flow, highlighted in bold, in excess of 98.6 ML/D per clause 26 of Licence 2716.
- (6) Bracketed Coliform results not used in the Geometric Mean calculation.
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process.
- (8) Total Phosphorus and Total Nitrogen are corrected based on the recovery of a quality control standard.