

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
February 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-Feb-08	48.1	8	14	6	30	1,443	4.86	nr	4.6	nr	28	10	6.70	360	360
2-Feb-08	49.0	8	14	7	29	1,420	4.31	3.7	4.5	27	28	13	6.82	360	360
3-Feb-08	50.0	8	19	9	29	1,449	4.24	5.1	4.5	37	28	14	6.66	2,300	2,300
4-Feb-08	45.7	8	18	8	29	1,324	4.14	4.9	4.5	37	28	13	6.68	920	920
5-Feb-08	47.7	11	16	7	32	1,527	4.43	5.2	4.6	38	29	13	6.92	360	360
6-Feb-08	47.6	12	13	8	32	1,524	5.00	5.8	4.6	39	29	13	6.72	92	92
7-Feb-08	46.4	11	16	6	32	1,484	4.84	5.5	4.7	38	30	14	6.79	36	23
8-Feb-08	46.0	5	11	7	32	1,473	5.13	5.5	4.7	38	30	13	6.75	1,100	1,100
9-Feb-08	46.5	6	10	8	32	1,488	4.59	5.1	4.7	38	30	13	6.83	36	23
10-Feb-08	48.9	8	18	6	30	1,468	4.17	4.7	4.7	36	31	13	6.94	230	230
11-Feb-08	45.9	8	12	6	31	1,424	4.36	4.6	4.7	35	31	14	6.65	360	360
12-Feb-08	46.5	6	12	6	32	1,487	5.15	5.2	4.8	38	31	13	6.73	23	23
13-Feb-08	47.3	5	10	5	30	1,418	5.79	6.4	4.9	39	32	13	6.75	38	38
14-Feb-08	46.9	7	16	5	32	1,501	5.85	6.6	4.9	39	32	13	6.75	23	23
15-Feb-08	46.8	7	13	5	33	1,543	4.38	6.3	5.0	37	33	13	6.78	360	360
16-Feb-08	47.1	8	<10	6	29	1,364	4.86	5.4	5.0	36	33	13	6.75	38	38
17-Feb-08	47.1	7	14	7	29	1,365	4.24	4.6	4.9	34	33	13	6.75	360	360
18-Feb-08	47.5	8	14	6	29	1,378	4.60	4.9	4.9	38	33	13	6.75	36	36
19-Feb-08	45.1	7	10	5	30	1,352	4.87	5.5	5.0	33	34	12	6.62	36	36
20-Feb-08	47.6	6	11	5	33	1,571	5.65	5.9	5.0	39	34	13	6.74	360	360
21-Feb-08	47.2	10	13	7	34	1,605	5.60	6.6	5.1	37	34	13	6.78	36	36
22-Feb-08	46.1	11	nr	nr	33	1,523	5.76	6.9	5.2	40	35	13	7.05	2,300	2,300
23-Feb-08	47.6	12	14	9	32	1,524	5.27	5.9	5.3	37	35	13	6.80	920	920
24-Feb-08	48.3	13	17	9	31	1,498	4.38	5.1	5.3	32	35	13	6.89	360	360
25-Feb-08	46.5	14	20	9	29	1,349	4.84	5.6	5.3	37	35	12	7.73	230	230
26-Feb-08	46.1	13	21	9	30	1,384	5.10	5.6	5.4	35	36	13	6.82	920	920
27-Feb-08	46.5	15	18	9	31	1,440	6.00	6.3	5.4	35	36	13	6.96	230	230
28-Feb-08	45.3	9	17	8	31	1,406	6.16	6.7	5.5	37	36	13	6.82	36	36
29-Feb-08	46.6	14	17	8	31	1,444	5.62	6.3	5.6	40	37	13	6.73	36	36
Max:	50.0														
Min:	45.1														
Average:	47.0	9	15	7	31	1,454	4.97	5.6		37		13	6.82		
Geo.Mean:														173	168

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.