

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
June 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-Jun-08	56.5	13	22	8	26	1,441	3.54	3.9	4.8	27	33	15	6.71	92	92
2-Jun-08	58.1	11	31	8	25	1,423	3.68	4.2	4.8	28	33	14	6.54	92	92
3-Jun-08	56.0	20	28	12	27	1,516	4.35	5.0	4.8	31	33	ns	ns	ns	ns
4-Jun-08	55.6	11	21	8	27	1,500	4.63	5.2	4.8	28	33	18	6.76	36	23
5-Jun-08	53.2	9	22	6	28	1,490	5.09	5.8	4.8	31	33	ns	ns	ns	ns
6-Jun-08	149.3	53	44	26	13	1,926	2.01	2.9	4.7	18	32	14	6.94	(1,100,000)	(1,100,000)
7-Jun-08	108.6	11	21	6	12	1,336	1.74	2.1	4.6	16	31	13	7.22	(960)	(150)
8-Jun-08	78.7	8	<10	4	17	1,306	2.35	2.7	4.5	19	30	14	7.17	<3.0	<3.0
9-Jun-08	149.8	31	35	18	10	1,558	1.83	2.4	4.4	16	30	14	7.21	(9,200)	(920)
10-Jun-08	127.7	14	14	6	12	1,481	1.91	2.3	4.4	15	29	14	7.37	(920)	(920)
11-Jun-08	89.4	12	16	9	16	1,412	2.73	3.2	4.3	21	29	13	7.16	150	92
12-Jun-08	150.5	12	15	9	11	1,625	2.02	2.3	4.3	14	29	13	7.30	(2,300)	(960)
13-Jun-08	99.8	6	10	5	15	1,447	2.39	2.6	4.2	17	28	13	7.25	(150)	(150)
14-Jun-08	82.6	7	nr	nr	17	1,413	2.55	2.7	4.2	19	28	14	6.98	36	36
15-Jun-08	75.6	11	15	7	20	1,503	3.19	3.2	4.1	22	27	14	6.99	36	36
16-Jun-08	71.5	6	17	6	21	1,472	3.14	3.3	4.1	23	27	nr	6.88	110	110
17-Jun-08	67.7	7	12	4	22	1,456	3.62	4.1	4.1	25	27	15	6.91	360	360
18-Jun-08	65.7	7	15	5	23	1,518	4.24	4.5	4.1	25	27	14	6.84	36	36
19-Jun-08	64.7	8	23	4	23	1,469	4.25	4.6	4.1	27	26	nr	6.79	230	230
20-Jun-08	62.4	6	46	4	22	1,386	3.98	4.3	4.0	28	26	15	6.88	23	23
21-Jun-08	65.9	13	23	11	22	1,477	3.72	4.1	4.0	31	26	16	6.75	23	23
22-Jun-08	61.4	11	15	7	21	1,265	3.44	3.7	4.0	24	25	16	6.69	360	360
23-Jun-08	61.5	8	17	6	24	1,487	4.19	4.6	3.9	28	25	16	6.73	21	21
24-Jun-08	62.0	10	12	4	24	1,482	4.16	4.4	4.0	26	25	16	6.78	36	36
25-Jun-08	58.8	7	13	4	26	1,505	4.49	4.7	4.0	24	25	16	7.35	36	36
26-Jun-08	57.9	7	<10	4	26	1,523	4.66	5.1	4.0	26	24	17	6.83	9	9
27-Jun-08	71.5	17	22	11	23	1,638	4.10	4.3	4.0	22	24	17	6.83	4	4
28-Jun-08	125.7	13	15	9	11	1,383	1.54	1.8	3.8	13	23	16	7.07	(23,000)	(9,200)
29-Jun-08	76.5	5	<10	3	15	1,170	2.40	2.5	3.7	19	23	16	6.85	23	23
30-Jun-08	66.1	4	<10	4	19	1,222	3.28	3.2	3.7	21	23	15	7.00	4	4
Max:	150.5														
Min:	53.2														
Average:	81.7	12	19	8	20	1,461	3.31	3.7		23		15	6.96		
Geo.Mean:														36	34

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.