City of Winnipeg
Water and Waste Department
North 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)*	(^{o}C)	(units)	MPN/100 mL	
1-Mar-08	157.8	19	52	9	38	5,996	4.50	5.4	5.1	49	45	14	6.71	2,300	2,300
2-Mar-08	159.6	27	38	9	35	5,586	4.13	4.8	5.1	44	44	14	6.82	920	920
3-Mar-08	161.5	23	54	10	33	5,330	4.05	4.8	5.1	41	44	14	6.93	2,300	2,300
4-Mar-08	117.5	22	50	11	33	3,878	4.13	4.9	5.1	46	45	14	6.97	2,300	2,300
5-Mar-08	153.5	25	55	9	35	5,373	4.25	5.3	5.1	49	45	14	6.99	2,300	2,300
6-Mar-08	115.5	29	61	11	33	3,812	4.00	5.0	5.0	43	44	14	6.93	920	920
7-Mar-08	156.3	22	38	9	33	5,158	3.93	5.2	5.0	37	44	13	6.9	2,300	2,300
8-Mar-08	152.5	19	36	11	33	5,033	3.78	4.8	5.0	44	44	13	6.93	3,600	3,600
9-Mar-08	146.8	30	38	9	33	4,844	3.97	4.9	5.0	42	44	13	6.9	3,600	3,600
10-Mar-08	155.0	24	42	10	34	5,270	3.90	4.9	5.0	44	44	13	7.00	3,600	3,600
11-Mar-08	185.5	25	41	11	34	6,307	3.71	4.8	5.0	37	44	14	6.84	230	230
12-Mar-08	194.7	25	32	11	28	5,452	2.78	3.9	5.0	34	43	13	6.84	2,300	2,300
13-Mar-08	241.1	25	32	12	25	6,028	2.23	3.2	4.9	31	43	14	6.98	920	920
14-Mar-08	180.9	23	34	9	27	4,884	2.21	3.1	4.9	32	42	12	7.06	na	920
15-Mar-08	158.7	20	29	9	30	4,761	3.04	4.0	4.8	37	42	13	7.01	na	920
16-Mar-08	168.2	23	41	10	30	5,046	3.29	4.4	4.8	37	42	13	6.96	920	920
17-Mar-08	164.5	26	59	12	31	5,100	3.46	4.5	4.8	34	42	13	7.07	360	360
18-Mar-08	230.6	32	57	13	27	6,226	2.95	4.1	4.8	29	41	13	7.26	3,600	3,600
19-Mar-08	198.5	27	50	10	25	4,963	2.19	2.9	4.7	33	41	13	7.13	2,300	2,300
20-Mar-08	195.0	23	48	12	28	5,460	2.66	3.8	4.7	37	41	13	6.95	3,600	3,600
21-Mar-08	242.4	19	68	12	26	6,302	2.53	nr	4.6	nr	41	12	7.04	2,300	2,300
22-Mar-08	188.0	19	35	9	23	4,324	2.42	3.5	4.6	37	40	12	6.99	1,500	1,500
23-Mar-08	157.4	17	37	9	28	4,407	3.13	4.2	4.6	40	40	13	7.00	2,300	2,300
24-Mar-08	157.0	21	35	7	30	4,710	3.39	4.4	4.5	40	40	13	7.03	920	920
25-Mar-08	169.9	16	33	7	34	5,777	3.40	4.4	4.5	47	41	13	7.14	920	920
26-Mar-08	157.7	16	35	7	35	5,520	3.34	4.2	4.5	46	41	13	6.99	2,300	2,300
27-Mar-08	156.4	13	45	7	36	5,630	3.83	4.4	4.5	46	41	13	6.97	75,000	9,200
28-Mar-08	180.0	nr	40	17	35	6,300	2.05	2.9	4.4	42	41	14	6.99	360	360
29-Mar-08	236.5	62	59	35	30	7,095	2.28	3.9	4.4	43	40	13	7.19	43,000	43,000
30-Mar-08	**453.9**	74	48	19	12	5,447	1.29	1.4	4.2	15	39	13	7.15	(93000)	(93000)
31-Mar-08	234.4	17	45	10	19	4,454	1.84	2.4	4.1	27	38	13	7.14	3,600	3,600
Max:	454														
Min:	116														
Average:	**185**	**25**	**44**	**11**	**30**	**5,305**	**3.18**	**4.1**		**39**		**13**	**6.99**		
Geo.Mean:														**2,078**	**1,836**

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 380 ML/D per clause 26 of Licence 2684RR.

(6) Bracketed Coliform results not used in the Geometric Mean calculation.

(7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant.

(8) Total Phosphorus and Toatl Nitrogen results are corrected based on the recovery of a quality control standard.