City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data

January 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-Jan-08	140.4	12	35	6	32	4,493	4.26	4.7	4.6	33	38	15	7.02	230	230
2-Jan-08	150.8	10	42	7	34	5,127	4.48	5.2	4.6	38	38	15	6.96	230	230
3-Jan-08	163.8	13	43	7	32	5,242	4.14	5.4	4.6	30	38	15	6.90	92	92
4-Jan-08	165.0	11	46	6	35	5,775	3.95	4.5	4.6	34	38	15	6.97	230	230
5-Jan-08	159.4	11	22	6	35	5,579	3.83	3.8	4.6	33	37	15	7.06	740	740
6-Jan-08	163.1	15	29	5	37	6,035	4.08	3.8	4.6	33	37	15	6.97	43,000	23,000
7-Jan-08	161.7	11	24	5	34	5,498	4.05	3.9	4.5	32	37	15	6.94	92	92
8-Jan-08	152.9	20	33	6	37	5,657	4.50	4.7	4.5	35	36	15	6.81	360	360
9-Jan-08	163.0	16	25	7	36	5,868	4.26	5.4	4.5	41	36	15	6.93	74	74
10-Jan-08	164.6	13	27	7	35	5,761	4.02	4.2	4.5	32	36	15	6.85	230	23
11-Jan-08	162.0	11	21	6	33	5,346	4.01	4.7	4.5	34	36	15	6.82	150	150
12-Jan-08	157.4	13	31	8	35	5,509	4.19	4.9	4.5	37	36	15	6.94	920	920
13-Jan-08	155.7	23	33	9	35	5,450	4.12	4.2	4.5	25	35	15	7.14	43,000	43,000
14-Jan-08	164.5	21	38	10	33	5,429	4.08	4.5	4.5	34	35	14	7.04	3,600	3,600
15-Jan-08	166.3	21	37	9	35	5,821	3.86	4.0	4.5	32	35	14	6.82	240,000	240,000
16-Jan-08	174.5	17	nr	nr	32	5,584	3.48	3.3	4.5	31	35	14	7.48	2,300	2,300
17-Jan-08	165.8	46	50	18	34	5,637	4.04	5.5	4.5	40	35	13	7.10	920	920
18-Jan-08	164.6	17	24	9	33	5,432	3.17	4.1	4.5	36	35	14	6.87	9,200	9,200
19-Jan-08	161.2	15	27	9	34	5,481	3.85	4.8	4.5	37	35	13	6.92	2,400	2,400
20-Jan-08	159.2	17	32	9	36	5,731	4.06	4.1	4.5	36	35	14	7.04	75,000	75,000
21-Jan-08	163.1	20	46	9	36	5,872	4.17	5.8	4.6	41	35	14	7.00	920	920
22-Jan-08	163.2	21	40	8	36	5,875	3.75	4.6	4.5	35	34	14	7.08	2,300	2,300
23-Jan-08	162.8	23	38	9	35	5,698	3.68	3.3	4.5	29	34	14	6.94	3,600	3,600
24-Jan-08	167.3	28	37	11	34	5,688	4.30	4.7	4.5	32	34	14	6.87	3,600	3,600
25-Jan-08	163.8	21	38	9	32	5,242	4.17	4.2	4.6	30	34	13	6.77	360	360
26-Jan-08	161.3	22	46	8	34	5,484	4.21	4.7	4.6	35	34	14	6.88	920	360
27-Jan-08	161.3	28	50	10	35	5,646	4.04	3.9	4.5	33	33	15	6.84	3,600	3,600
28-Jan-08	164.0	23	66	11	33	5,412	3.78	4.8	4.5	42	34	14	6.75	150,000	150,000
29-Jan-08	161.2	26	35	9	36	5,803	3.91	5.0	4.5	41	34	14	7.11	2,300	2,300
30-Jan-08	159.8	21	36	9	35	5,593	3.92	5.1	4.5	39	35	14	6.96	2,300	920
31-Jan-08	159.5	18	35	9	35	5,583	4.05	5.0	4.5	39	35	15	6.85	1,500	1,500
Max:	175														
Min:	140														
Average:	**161**	**19**	**36**	**8**	**34**	**5,560**	**4.01**	**4.5**		**35**		**14**	**6.96**		
Geo.Mean:														**1,700**	**1,457**

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) The results for Total Nitrogen and Phosphorus are lower than normal due to technical difficulties with our analysis. Total Phosphorus and Total Nitrogen results are corrected based on the recovery of a quality control standard.