City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
October 2007

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-Oct-07	168.4	8	28	5	30	5,052	4.24	4.5	3.4	36	31	19.2	6.95	490	490
2-Oct-07	167.2	10	42	7	30	5,016	4.32	nr	3.4	nr	31	19.4	6.75	330	330
3-Oct-07	169.3	11	23	6	32	5,418	4.42	4.1	3.4	36	31	19.3	6.73	330	330
4-Oct-07	270.0	11	25	6	31	8,370	4.42	4.8	3.4	38	32	18.7	6.94	na	na
5-Oct-07	165.3	12	19	4	33	5,455	4.10	3.9	3.4	36	32	19.1	6.90	na	na
6-Oct-07	163.8	11	14	5	31	5,078	2.02	2.4	3.4	30	32	19.1	6.95	na	na
7-Oct-07	155.4	8	39	6	29	4,507	3.07	3.3	3.4	34	32	19.0	7.23	33,000	33,000
8-Oct-07	**420.4**	44	nr	nr	14	5,886	2.05	2.4	3.4	21	32	18.8	6.77	(790,000)	(790,000)
9-Oct-07	346.9	8	20	5	14	4,857	1.49	2.0	3.3	22	32	12.5	7.23	(110)	(40)
10-Oct-07	201.8	7	12	4	24	4,843	2.72	2.8	3.3	26	31	16.0	7.12	490	140
11-Oct-07	183.9	7	22	5	29	5,333	3.72	4.5	3.3	39	31	18.0	6.99	1,100	1,100
12-Oct-07	175.9	7	21	4	29	5,101	3.67	4.3	3.4	41	32	18.2	6.96	700	490
13-Oct-07	175.9	6	25	4	29	5,101	3.73	3.5	3.4	32	32	18.0	7.19	210	46
14-Oct-07	159.9	11	25	4	29	4,637	3.92	4.2	3.4	36	32	18.0	7.23	230	230
15-Oct-07	163.3	7	24	4	29	4,736	4.16	4.0	3.4	32	32	18.7	7.15	49	11
16-Oct-07	163.5	8	22	4	28	4,578	3.93	3.5	3.4	28	31	18.7	6.99	79	33
17-Oct-07	171.7	8	24	5	31	5,323	4.38	4.2	3.4	36	31	18.7	6.90	200	93
18-Oct-07	268.5	41	> 74	17	23	6,176	2.82	3.4	3.4	28	31	18.9	6.94	930	150
19-Oct-07	**476.9**	18	42	8	9	4,292	0.98	1.3	3.3	14	30	13.8	6.93	1,200	200
20-Oct-07	227.5	6	13	3	18	4,095	2.36	1.5	3.3	16	30	16.1	7.10	(43,000)	(43,000)
21-Oct-07	200.6	5	14	3	22	4,413	2.83	3.1	3.3	28	30	17.7	7.21	43	15
22-Oct-07	193.3	11	19	6	26	nr	3.76	3.9	3.3	31	30	18.0	6.94	230	7
23-Oct-07	184.2	6	16	3	28	5,158	3.58	3.3	3.3	30	30	18.3	6.97	150	4
24-Oct-07	169.2	6	20	4	29	4,907	3.55	3.9	3.4	37	30	18.6	7.03	430	30
25-Oct-07	172.3	7	32	4	31	5,341	3.74	4.4	3.5	39	31	18.4	6.84	230	7
26-Oct-07	170.3	5	26	4	30	5,109	3.47	4.3	3.6	36	32	18.2	6.88	4,300	740
27-Oct-07	161.1	9	26	4	30	4,833	3.54	3.5	3.6	33	32	17.5	7.03	230	23
28-Oct-07	156.8	9	29	7	28	4,390	3.52	3.5	3.6	32	32	18.0	7.15	36	23
29-Oct-07	166.8	8	62	5	26	4,337	3.41	3.3	3.5	24	31	18.0	6.97	150	21
30-Oct-07	172.2	11	42	5	26	4,477	3.34	4.6	3.6	34	31	18.1	6.97	92	9
31-Oct-07	188.7	10	37	5	26	4,906	3.04	3.2	3.5	32	31	18.1	6.97	150	74
Max:	477														
Min:	155														
Average:	**204**	**11**	**28**	**5**	**27**	**5,057**	**3.36**	**3.5**		**31**		**18.0**	**7.00**		
Geo.Mean:														**316**	**82**

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.