

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
March, 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)*	(°C)	(units)	MPN/100 mL	
1-Mar-07	170.8	12	55	9	31	ns	3.48	3.8	4.9	39	39	14.5	6.83	1600	1600
2-Mar-07	162.4	14	48	9	30	4,872	3.61	4.0	4.8	38	39	15.1	6.80	540	240
3-Mar-07	159.2	12	59	9	29	4,617	3.62	4.1	4.8	38	40	12.2	6.91	1600	1600
4-Mar-07	155.1	15	55	8	28	4,343	3.53	4.2	4.7	37	40	13.1	6.93	1600	1600
5-Mar-07	162.7	12	78	8	27	4,393	3.50	4.0	4.7	35	40	13.0	7.27	920	540
6-Mar-07	159.1	19	62	10	27	4,296	3.78	5.0	4.7	40	40	14.4	6.87	170	170
7-Mar-07	155.2	19	59	9	30	4,656	3.77	4.3	4.6	38	39	14.7	6.77	920	920
8-Mar-07	155.8	16	56	10	32	4,986	3.80	4.7	4.6	44	39	13.9	7.21	3500	3500
9-Mar-07	177.3	14	56	9	33	5,851	3.97	4.6	4.6	42	39	14.4	6.92	350	350
10-Mar-07	209.9	16	58	9	29	6,087	3.58	4.5	4.6	39	39	14.2	6.90	3500	3500
11-Mar-07	198.8	14	65	8	24	4,771	2.73	3.0	4.5	33	39	15.4	6.98	36	36
12-Mar-07	261.7	33	51	12	21	5,496	2.41	3.4	4.5	30	39	15.3	6.90	540	540
13-Mar-07	330.2	27	53	11	16	5,283	1.69	2.7	4.4	25	39	13.2	7.01	540	540
14-Mar-07	180.0	ns	ns	ns	ns	ns	ns	ns	4.4	ns	39	12.0	7.17	110	110
15-Mar-07	162.6	ns	ns	ns	ns	ns	ns	ns	4.4	ns	39	13.0	6.95	1600	1600
16-Mar-07	161.1	ns	ns	ns	ns	ns	ns	ns	4.4	ns	39	12.4	7.01	1600	1600
17-Mar-07	170.1	ns	ns	ns	32	5,443	3.74	4.3	4.4	39	39	nr	6.93	5400	5400
18-Mar-07	210.1	ns	ns	ns	29	6,093	3.32	3.8	4.3	34	39	13.4	6.99	3500	920
19-Mar-07	173.6	ns	ns	ns	ns	ns	ns	ns	4.3	ns	39	10.5	6.99	920	920
20-Mar-07	195.4	ns	ns	ns	ns	ns	ns	ns	4.3	ns	39	13.1	6.97	1600	1600
21-Mar-07	302.0	ns	ns	ns	20	6,040	2.17	2.8	4.3	24	38	14.2	6.76	540	540
22-Mar-07	202.1	50	57	13	26	5,255	3.08	4.3	4.2	35	37	10.8	7.30	540	540
23-Mar-07	299.4	29	>77	17	23	6,886	2.50	3.8	4.2	30	37	13.4	7.10	240	79
24-Mar-07	386.3	47	43	15	15	5,795	1.52	2.7	4.1	21	36	13.2	7.13	(70)	(70)
25-Mar-07	528.8	58	39	18	8	4,230	1.03	2.2	4.0	16	35	9.2	7.13	(130)	(130)
26-Mar-07	477.3	44	30	15	9	4,296	1.19	1.9	3.9	15	34	8.9	7.14	(49)	(49)
27-Mar-07	344.3	18	29	8	13	4,476	1.46	2.3	3.8	20	34	12.9	7.21	350	350
28-Mar-07	420.4	58	33	15	13	5,465	1.44	2.5	3.7	19	33	10.0	6.83	(920)	(920)
29-Mar-07	600.3	85	35	18	7	4,202	1.09	1.8	3.6	16	32	10.9	7.76	(NR)	(NR)
30-Mar-07	404.3	25	18	8	11	4,447	1.00	1.7	3.5	19	32	10.1	7.70	(>1600)	(>1600)
31-Mar-07	395.0	22	17	8	11	4,345	1.22	1.8	3.4	18	31	10.0	7.05	(130)	(49)
Max:	600														
Min:	155														
Average:	260.4	29	49	11	22	5,065	2.62	3.4		30		12.7	7.05		
Geo.Mean:														782	668

- 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.