

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
February, 2006

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-Feb-06	165.0	12	20	8	34	5,610	4.48	4.7	4.3	41	40	15.0	7.00	23,000	9,300
2-Feb-06	160.9	11	21	7	32	5,150	4.25	4.6	4.3	40	40	15.0	6.93	4,300	4,300
4-Feb-06	161.0	14	28	7	30	4,830	4.08	4.3	4.3	41	39	15.0	6.88	4,300	4,300
4-Feb-06	156.1	14	25	8	31	4,840	4.12	4.8	4.3	43	40	15.0	6.86	9,300	1,500
6-Feb-06	152.6	13	22	8	32	4,880	4.29	4.6	4.4	42	40	15.0	6.88	75,000	21,000
6-Feb-06	159.8	9	20	8	28	4,470	3.65	4.4	4.4	38	40	15.0	6.98	9,300	9,300
7-Feb-06	158.3	15	21	8	29	4,590	4.11	5.4	4.4	39	40	14.5	6.87	23,000	23,000
8-Feb-06	157.5	13	24	7	29	4,570	4.05	5.3	4.4	38	40	14.5	6.91	230,000	23,000
9-Feb-06	159.1	10	26	7	31	4,930	4.27	5.9	4.5	43	40	15.0	6.83	23,000	23,000
10-Feb-06	158.5	17	30	7	30	4,760	4.22	nr	nr	39	40	15.0	7.07	23,000	23,000
11-Feb-06	154.5	13	27	8	32	4,940	4.11	nr	nr	39	40	15.0	6.85	23,000	15,000
12-Feb-06	151.7	12	25	8	38	5,770	5.21	7.8	4.6	49	40	15.0	6.84	43,000	9,300
13-Feb-06	159.8	14	26	9	35	5,590	4.91	7.4	4.7	48	41	15.0	6.89	21,000	21,000
14-Feb-06	156.6	13	29	8	31	4,860	4.24	4.5	4.7	41	41	14.5	6.96	23,000	4,300
15-Feb-06	161.7	11	61	7	27	4,370	3.75	3.7	4.7	34	40	14.0	6.88	43,000	43,000
16-Feb-06	164.1	10	24	7	33	5,420	4.32	4.3	4.7	41	41	14.5	6.83	15,000	9,300
17-Feb-06	152.3	16	32	8	31	4,720	4.47	4.3	4.6	39	41	14.5	6.90	43,000	15,000
18-Feb-06	148.2	20	40	8	27	4,000	4.00	4.3	4.6	36	40	14.0	6.86	43,000	43,000
19-Feb-06	159.5	12	26	9	25	3,990	3.79	3.6	4.6	31	40	14.0	6.92	23,000	23,000
20-Feb-06	162.7	16	26	9	27	4,390	4.02	4.3	4.6	36	40	14.0	6.90	23,000	23,000
21-Feb-06	167.1	17	29	9	33	5,410	4.24	4.7	4.6	44	40	14.5	6.79	43,000	23,000
22-Feb-06	169.4	18	24	10	38	6,440	4.50	4.3	4.6	42	40	14.5	7.11	43,000	43,000
23-Feb-06	171.9	15	27	9	35	6,020	4.23	4.1	4.6	41	40	14.5	6.95	75,000	38,000
24-Feb-06	170.9	10	28	8	36	6,150	4.59	4.7	4.6	46	40	15.0	6.95	93,000	43,000
25-Feb-06	167.1	24	31	11	36	6,020	4.51	4.8	4.7	46	41	15.0	6.89	15,000	9,300
26-Feb-06	161.7	17	32	9	33	5,340	4.20	4.6	4.7	44	41	14.5	6.95	15,000	9,300
27-Feb-06	167.9	14	24	9	30	5,040	3.79	3.7	4.7	38	41	14.0	6.87	38,000	38,000
28-Feb-06	168.0	15	38	9	29	4,870	3.54	6.1	4.8	39	41	14.5	6.92	9,300	9,300
Total:	4504														
Max:	171.9														
Min:	148.2														
Average:	160.9	14	28	8	32	5,070	4.21	4.8		41		14.6	6.91		
Geo.Mean:														25,000	15,000

Notes:

(1) * = 30 day rolling average

(2) effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations

(3) nr - not recorded or no result; na - not analyzed; ns - no sample

(4)** During normal plant operation any flow greater than 400 ML/ day will by-pass the secondary process

(5) February 9 - plant shut-down for 4 hours which could affect 24 hour composite sample results for Feb. 8 and 9.