

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
April, 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)*	(oC)	(units)	MPN/100 mL	
1-Apr-06	473.0	22	18	8	8	3,784	1.49	1.5	4.5	18	32	9.0	7.32	(150,000)	(9,300)
2-Apr-06	480.1	25	9	4	6	2,881	1.28	1.5	4.4	16	32	9.0	7.32	(4,300)	(4,300)
3-Apr-06	458.4	25	15	8	7	3,209	1.53	1.6	4.3	17	31	9.5	7.22	(23,000)	(23,000)
4-Apr-06	444.0	17	16	8	7	3,108	1.45	1.8	4.3	18	31	9.0	7.16	(75,000)	(75,000)
5-Apr-06	443.3	20	14	8	7	3,103	1.38	1.4	4.1	18	30	9.5	7.17	(23,000)	(23,000)
6-Apr-06	434.4	23	13	6	7	3,041	1.20	1.6	4.0	18	29	9.5	7.19	(4,300)	(4,300)
7-Apr-06	355.9	19	21	8	9	3,203	1.42	2.1	3.9	19	29	9.5	7.02	9,300	4,300
8-Apr-06	331.5	23	20	7	9	2,984	1.32	1.9	3.8	19	28	11.0	7.20	4,300	930
9-Apr-06	325.3	19	16	7	10	3,253	1.53	2.0	3.8	20	28	11.5	7.09	9,300	9,300
10-Apr-06	344.8	19	18	8	11	3,793	1.69	2.2	3.7	22	28	12.0	6.94	23,000	23,000
11-Apr-06	509.2	39	27	13	5	2,546	1.09	1.1	3.6	18	27	12.0	7.17	(230,000)	(43,000)
12-Apr-06	426.6	17	17	6	8	3,413	1.04	0.9	3.5	20	27	12.0	7.23	(93,000)	(93,000)
13-Apr-06	379.1	22	16	7	8	3,033	1.18	1.5	3.4	22	27	12.0	7.17	9,300	9,300
14-Apr-06	331.9	17	23	6	10	3,319	1.36	1.6	3.3	24	26	13.0	7.07	4,300	4,300
15-Apr-06	296.4	16	16	6	10	2,964	1.65	1.7	3.2	22	26	13.5	7.22	1,500	1,500
16-Apr-06	275.1	13	17	6	11	3,026	1.85	2.0	3.1	24	26	13.0	7.24	7,500	7,500
17-Apr-06	275.7	13	<10	6	13	3,584	2.02	2.1	3.0	24	25	13.5	7.15	9,300	4,300
18-Apr-06	271.0	7	13	6	15	4,065	1.98	2.1	2.9	26	25	13.0	7.11	9,300	9,300
19-Apr-06	263.3	9	15	6	16	4,213	2.25	2.2	2.8	29	25	13.5	7.47	23,000	23,000
20-Apr-06	255.3	7	15	6	19	4,851	2.33	2.4	2.8	31	25	13.5	7.23	2,300	2,300
21-Apr-06	263.8	9	18	7	19	5,012	2.25	2.1	2.7	29	25	13.5	7.02	3,800	2,300
22-Apr-06	240.8	16	23	8	20	4,816	2.31	2.3	2.6	29	25	14.5	7.12	7,500	4,300
23-Apr-06	239.6	13	19	8	20	4,792	2.54	2.7	2.5	29	25	15.0	7.24	9,300	2,100
24-Apr-06	239.8	10	23	9	20	4,796	2.50	2.5	2.4	30	24	14.0	7.18	23,000	23,000
25-Apr-06	221.9	15	23	8	21	4,660	2.53	2.5	2.3	31	24	14.0	7.14	43,000	43,000
26-Apr-06	212.6	12	22	9	22	4,677	2.58	3.1	2.2	35	24	15.0	7.28	43,000	38,000
27-Apr-06	224.1	13	24	9	21	4,706	2.42	3.2	2.2	35	24	15.0	7.06	230,000	93,000
28-Apr-06	218.6	15	24	8	21	4,591	2.64	3.0	2.1	39	25	15.0	7.05	15,000	15,000
29-Apr-06	204.8	16	20	8	22	4,506	2.54	3.0	2.1	36	25	15.5	7.33	43,000	43,000
30-Apr-06	232.0	21	22	10	19	4,408	2.40	3.0	2.1	33	25	14.5	7.15	21,000	21,000
Total:	9672														
Max:	509														
Min:	205														
Average:	322.4	17	18	7	13	3,811	1.86	2.1		25		12.5	7.18		
Geo.Mean:														12,100	8,900

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 2684R.
- (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.