

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
October, 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-N)	(mg/L-N)*	(oC)	(units)	MPN/100 mL		
1-Oct-06	166.4	10	55	6	19	3,162	3.80	4.5	4.2	31	33	20.2	6.69	230	230
2-Oct-06	169.8	8	61	6	20	3,396	3.75	4.0	4.1	30	33	19.5	6.65	430	93
3-Oct-06	173.7	10	53	6	26	4,516	4.41	5.1	4.2	40	33	19.1	6.87	43	23
4-Oct-06	169.6	9	62	6	30	5,088	4.47	5.1	4.2	42	33	19.0	6.99	9,300	2,100
5-Oct-06	180.2	11	71	8	30	5,406	4.69	nr	4.2	nr	32	19.3	6.60	15,000	15,000
6-Oct-06	173.2	14	nr	nr	38	6,582	5.42	6.1	4.2	54	33	19.8	6.82	2,300	2,300
7-Oct-06	162.1	8	51	7	31	5,025	4.88	5.6	4.3	44	33	19.7	6.91	4,300	2,300
8-Oct-06	159.5	12	50	6	28	4,466	4.68	5.5	4.3	43	33	18.7	6.91	2,300	930
9-Oct-06	160.8	16	>78	7	26	4,181	4.57	nr	4.3	nr	31	15.5	6.89	9,300	2,300
10-Oct-06	227.1	18	67	12	27	6,132	4.54	nr	4.3	nr	30	18.4	6.85	9,300	9,300
11-Oct-06	174.7	12	49	7	28	4,892	3.67	3.6	4.2	nr	29	16.1	6.71	2,300	2,300
12-Oct-06	202.4	14	49	7	30	6,072	3.98	4.8	4.2	40	29	17.2	6.67	430	430
13-Oct-06	174.8	11	65	7	29	ns	4.39	4.9	4.2	42	30	17.9	6.81	230	230
14-Oct-06	163.0	8	67	6	28	4,564	4.59	nr	4.2	nr	28	18.5	6.78	750	150
15-Oct-06	169.6	11	56	7	30	5,088	4.59	5.1	4.3	43	29	18.4	6.88	380	380
16-Oct-06	ns	ns	ns	ns	ns	ns	ns	ns	4.3	ns	28	18.0	6.86	20	14
17-Oct-06	186.2	11	75	8	24	4,469	2.97	3.2	4.2	29	29	15.7	6.70	4,300	4,300
18-Oct-06	163.2	10	64	6	32	5,222	4.06	4.9	4.3	45	29	17.6	6.69	nr	nr
19-Oct-06	167.5	8	52	7	30	5,025	4.18	5.1	4.3	47	30	16.5	6.83	2,100	230
20-Oct-06	157.5	11	63	7	30	4,725	4.48	5.1	4.3	49	30	17.1	6.76	150	75
21-Oct-06	150.4	10	74	7	28	4,211	4.50	5.3	4.4	47	30	17.7	6.91	150	38
22-Oct-06	156.2	15	67	7	28	4,374	4.51	5.3	4.5	43	31	17.8	6.91	210	93
23-Oct-06	151.9	15	72	8	27	4,101	4.35	5.1	4.6	41	31	17.1	6.91	430	150
24-Oct-06	156.6	14	77	8	29	4,541	4.55	4.8	4.7	41	31	17.0	6.76	930	430
25-Oct-06	161.5	13	58	8	31	5,007	4.43	4.9	4.7	42	32	17.6	6.69	4,300	750
26-Oct-06	154.6	12	68	9	27	4,174	4.61	5.3	4.7	43	32	17.9	6.71	4,300	2,300
27-Oct-06	153.8	42	>79	11	28	4,306	4.40	4.4	4.7	37	32	17.7	6.73	210	210
28-Oct-06	159.9	14	53	9	31	4,957	4.73	3.4	4.7	nr	31	16.0	6.84	430	150
29-Oct-06	148.4	15	45	8	ns	ns	ns	3.2	4.6	ns	30	16.8	6.81	93	93
30-Oct-06	151.7	14	47	9	28	4,248	4.15	4.0	4.6	35	30	16.0	6.69	230	93
31-Oct-06	163.3	10	34	8	29	4,736	3.99	3.8	4.6	33	30	15.4	6.64	230	93
Max:	227														
Min:	148														
Average:	167.0	13	60	8	28	4,738	4.36	4.7		41		17.7	6.79		
Geo.Mean:														786	397

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.