

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
January 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-Jan-07	142.7	11	66	7	30	4,281	4.57	5.5	4.9	39	43	13.2	6.85	23	23
2-Jan-07	150.6	11	72	8	29	4,367	4.61	5.6	4.9	39	43	16.5	6.89	920	920
3-Jan-07	159.5	11	55	7	28	4,466	4.66	5.4	4.9	39	43	16.7	6.84	240	240
4-Jan-07	167.0	14	56	7	28	4,676	3.67	4.1	4.9	32	43	16.5	6.89	540	540
5-Jan-07	164.2	11	57	7	27	4,433	3.93	4.7	4.9	36	43	14.3	6.77	240	240
6-Jan-07	154.6	10	57	8	29	4,483	3.80	4.6	4.9	37	43	14.3	6.75	920	540
7-Jan-07	150.4	15	47	7	29	4,362	3.72	4.2	4.8	38	42	14.1	6.88	170	170
8-Jan-07	172.4	13	37	6	29	5,000	3.67	3.8	4.8	36	42	13.6	6.8	350	350
9-Jan-07	169.2	13	75	8	27	4,568	3.57	4.4	4.8	37	42	13.9	6.87	170	170
10-Jan-07	167.3	11	62	7	29	4,852	3.47	4.2	4.8	38	42	14.9	6.91	95	70
11-Jan-07	165.5	10	58	7	31	5,131	4.00	4.6	4.8	38	42	16.5	6.78	170	110
12-Jan-07	164.0	ns	ns	ns	ns	ns	ns	ns	4.8	ns	42	13.7	6.65	130	130
13-Jan-07	159.2	11	21	6	31	4,935	4.53	5.4	4.8	41	42	11.9	6.84	1,600	1,600
14-Jan-07	157.4	16	45	8	31	4,879	4.35	4.3	4.8	35	41	13.6	7.03	54,000	54,000
15-Jan-07	163.2	9	50	7	28	4,570	4.04	4.6	4.8	36	41	12.7	6.85	24,000	24,000
16-Jan-07	164.4	10	55	7	29	4,768	4.09	4.7	4.8	38	41	16.4	6.84	16,000	16,000
17-Jan-07	167.4	12	53	7	30	5,022	4.05	4.6	4.8	37	41	16.9	6.68	9,200	9,200
18-Jan-07	168.2	15	58	7	31	5,214	4.21	5.1	4.8	41	40	12.4	6.68	5,400	5,400
19-Jan-07	166.5	13	46	8	30	4,995	4.04	4.9	4.8	37	40	12.1	6.83	540	540
20-Jan-07	158.2	14	56	7	30	4,746	4.14	4.6	4.8	37	40	15.3	6.91	2,400	2,400
21-Jan-07	159.3	12	65	7	29	4,620	4.18	4.8	4.8	37	39	14.1	6.93	540	350
22-Jan-07	165.1	14	>79	8	27	4,458	4.15	4.9	4.8	39	39	14.4	6.85	350	170
23-Jan-07	168.5	10	65	7	29	4,887	4.02	4.9	4.8	38	39	14.2	6.88	49	49
24-Jan-07	168.7	15	63	8	29	4,892	3.81	4.8	4.8	40	39	17.3	6.91	240	240
25-Jan-07	160.6	17	69	9	28	4,497	4.06	5.0	4.8	40	39	15.8	6.68	240	240
26-Jan-07	165.3	12	50	7	30	4,959	4.09	5.2	4.8	39	39	13.4	6.60	24,000	24,000
27-Jan-07	160.7	ns	ns	ns	ns	ns	ns	ns	4.8	nr	39	13.0	6.86	1,600	920
28-Jan-07	158.6	ns	ns	ns	ns	ns	ns	ns	4.8	nr	39	11.3	6.76	37	37
29-Jan-07	165.5	ns	ns	ns	ns	ns	ns	ns	4.8	nr	39	14.4	7.07	9,200	1,620
30-Jan-07	164.6	ns	ns	ns	ns	ns	ns	ns	4.8	nr	39	15.0	6.96	540	540
31-Jan-07	165.6	23	68	9	33	5,465	4.54	5.7	4.8	46	39	15.9	6.87	170	170
Max:	172														
Min:	143														
Average:	162.4	13	57	7	29	4,751	4.08	4.8		38		14.5	6.84		
Geo.Mean:														702	603

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.