

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
June, 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-Jun-07	208.7	5	31	4	19	3,965	2.68	3.7	3.2	28	31	15.0	6.96	540	540
2-Jun-07	197.1	7	39	4	18	3,548	2.67	2.7	3.1	25	30	15.8	7.05	540	24
3-Jun-07	189.1	6	32	5	19	ns	2.51	2.8	3.1	24	31	16.0	7.07	49	8
4-Jun-07	191.9	7	69	5	20	3,838	3.07	3.2	3.2	28	31	16.0	6.84	920	9
5-Jun-07	189.6	8	67	4	22	4,171	3.14	4.0	3.3	35	31	15.8	6.94	5,400	220
6-Jun-07	303.5	32	72	21	17	5,160	2.49	3.3	3.3	27	31	17.0	6.86	540	170
7-Jun-07	393.9	21	63	12	10	3,939	0.94	1.4	3.2	16	31	16.0	6.92	(160,000)	(160,000)
8-Jun-07	230.0	8	29	4	11	2,530	1.45	1.8	3.2	19	30	15.0	6.94	79	49
9-Jun-07	198.3	7	36	4	14	2,776	2.40	2.6	3.1	21	29	15.5	6.95	240	49
10-Jun-07	245.1	36	34	6	13	3,186	2.50	3.7	3.1	22	28	15.8	8.06	49	8
11-Jun-07	232.4	5	28	3	14	3,254	2.22	3.5	3.1	22	27	17.0	7.09	350	130
12-Jun-07	215.8	11	33	7	19	4,100	2.88	3.8	3.1	29	27	15.6	6.87	240	240
13-Jun-07	413.1	20	31	7	12	4,957	1.77	2.5	3.0	19	27	18.1	6.88	(350,000)	(350,000)
14-Jun-07	255.6	9	40	3	17	4,345	2.58	3.4	3.0	27	26	17.0	7.01	240	130
15-Jun-07	243.7	8	34	4	24	5,849	3.41	3.3	3.0	30	26	17.5	6.95	130	33
16-Jun-07	210.0	9	31	5	32	6,720	4.14	3.9	3.0	38	26	18.0	7.22	920	540
17-Jun-07	212.0	28	62	14	19	4,028	2.77	2.9	2.9	24	25	17.3	7.01	130	79
18-Jun-07	544.6	25	47	9	8	4,357	1.20	1.8	2.9	15	25	17.5	7.09	(1,600,000)	(1,600,000)
19-Jun-07	385.2	21	33	7	12	4,622	1.54	2.1	2.8	18	24	16.0	6.94	(240)	(79)
20-Jun-07	421.0	9	29	2	12	5,052	1.68	1.9	2.8	18	24	16.0	6.91	(31)	(31)
21-Jun-07	284.7	ns	ns	ns	ns	ns	ns	ns	2.8	ns	24	17.0	7.01	280	130
22-Jun-07	241.6	5	42	3	22	5,315	2.84	ns	2.8	ns	24	17.5	6.90	350	350
23-Jun-07	241.7	22	42	8	13	3,142	2.00	2.3	2.8	19	24	17.0	7.14	79	79
24-Jun-07	544.5	19	30	5	6	3,267	1.02	1.3	2.8	11	24	17.0	6.93	(160,000)	(54,000)
25-Jun-07	652.2	23	38	8	4	2,609	0.85	1.1	2.7	10	23	17.0	7.07	(920,000)	(160,000)
26-Jun-07	551.0	10	24	5	7	3,857	1.26	1.6	2.7	15	23	17.0	7.19	(92,000)	(92,000)
27-Jun-07	362.9	6	40	2	12	4,355	1.81	2.4	2.7	21	23	16.0	7.29	13	13
28-Jun-07	312.7	5	61	3	ns	ns	ns	ns	2.7	ns	23	17.0	6.93	240	130
29-Jun-07	284.0	7	36	3	13	3,692	2.34	2.8	2.7	23	23	17.0	6.88	na	na
30-Jun-07	231.3	5	45	3	12	2,775	2.32	2.8	2.7	21	23	18.0	7.02	17	5
Max:	652														
Min:	189														
Average:	306.2	13	41	6	15	4,052	2.23	2.7		22		16.6	7.03		
Geo.Mean:														208	65

- 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.