

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
May, 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-May-07	168.2	14	38	13	22	3,700	2.06	2.5	3.2	29	30	nr	6.88	110	110
2-May-07	161.3	14	29	11	26	4,194	2.63	3.5	3.2	35	30	19.0	7.06	920	920
3-May-07	165.2	ns	ns	ns	ns	ns	ns	ns	3.2	ns	30	20.0	6.81	2,400	2,400
4-May-07	324.5	48	60	22	14	4,543	1.26	2.4	3.2	19	30	16.5	7.03	240,000	240,000
5-May-07	351.5	21	27	7	11	3,867	0.50	1.3	3.2	16	30	13.4	7.08	350	350
6-May-07	288.7	11	25	6	13	3,753	0.89	1.5	3.2	19	30	12.2	7.01	110	110
7-May-07	206.8	13	28	9	19	3,929	2.16	2.9	3.2	27	30	14.0	6.97	49	49
8-May-07	183.3	11	45	6	23	4,216	2.49	3.0	3.2	33	30	15.0	6.89	240	240
9-May-07	188.1	12	56	7	29	5,455	3.15	3.6	3.2	41	31	14.7	6.95	920	920
10-May-07	178.9	12	68	7	39	6,977	4.24	4.7	3.2	60	32	16.0	6.91	240	130
11-May-07	176.7	10	70	5	33	5,831	3.66	4.3	3.3	45	32	15.5	6.95	49	8
12-May-07	164.8	8	65	5	29	4,779	3.45	4.2	3.3	41	33	15.0	7.14	7	7
13-May-07	161.0	11	57	6	28	4,508	3.54	4.3	3.4	41	33	15.0	7.02	22	14
14-May-07	238.4	21	nr	16	24	5,722	3.30	3.9	3.4	34	33	14.7	6.99	79	17
15-May-07	181.6	5	55	6	25	4,540	2.83	3.6	3.4	35	34	15.0	6.82	1,600	920
16-May-07	175.1	10	74	5	29	5,078	3.12	3.8	3.4	41	34	15.5	6.95	70	70
17-May-07	171.6	9	71	8	30	5,148	3.78	4.7	3.5	43	35	15.5	6.91	110	110
18-May-07	185.8	11	46	6	27	5,017	3.34	3.9	3.5	37	35	16.0	7.01	46	11
19-May-07	154.8	10	64	6	26	4,025	3.36	3.4	3.5	32	35	15.5	6.92	14	14
20-May-07	157.1	8	54	5	26	4,085	3.55	3.9	3.5	34	35	15.0	7.07	<3	<3
21-May-07	201.6	35	60	14	20	4,032	2.47	3.3	3.5	29	35	14.5	6.94	49	49
22-May-07	498.9	31	61	13	9	4,490	0.92	1.5	3.4	15	34	16.0	6.85	(24,000)	(24,000)
23-May-07	442.7	25	39	8	10	4,427	1.15	2.0	3.4	19	33	15.0	7.08	(33)	(33)
24-May-07	271.9	9	33	3	17	4,622	2.12	2.5	3.3	26	33	15.0	7.14	33	33
25-May-07	215.3	9	41	4	21	4,521	2.70	2.9	3.3	29	33	15.0	7.03	540	540
26-May-07	356.9	17	41	13	15	5,354	1.77	2.3	3.3	21	33	14.7	7.29	350	170
27-May-07	252.6	6	34	4	15	3,789	1.76	2.2	3.3	22	32	12.8	7.17	240	79
28-May-07	265.2	20	57	16	17	4,508	2.56	3.2	3.3	25	32	15.0	7.11	920	170
29-May-07	301.4	8	26	6	15	4,521	1.64	2.2	3.2	22	31	16.0	7.04	540	540
30-May-07	249.3	11	38	6	17	4,238	2.06	2.9	3.2	27	31	14.7	7.03	920	920
31-May-07	227.9	9	53	7	19	4,330	2.78	3.0	3.2	27	31	15.0	7.18	350	350
Max:	499														
Min:	155														
Average:	234.4	15	49	8	22	4,607	2.51	3.1		31		15.2	7.01		
Geo.Mean:														184	131

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.