

City of Winnipeg
Water and Waste Department
South 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	74.0	10	12	6	18	1,331	2.87	3.1	3.3	23	26	15	7.27	220	220
2-Jun-07	69.8	9	15	7	19	1,327	2.80	3.3	3.2	25	26	16	7.04	70	70
3-Jun-07	69.1	9	14	7	20	1,381	2.85	2.8	3.2	22	26	16	7.03	79	14
4-Jun-07	66.7	9	26	7	21	1,400	3.25	3.2	3.2	24	26	16	6.87	49	49
5-Jun-07	62.8	10	20	8	23	1,443	3.52	4.3	3.3	30	26	16	7.14	350	170
6-Jun-07	76.2	18	25	15	21	1,600	3.56	4.3	3.4	28	27	16	7.01	170	49
7-Jun-07	101.8	19	32	13	14	1,425	2.40	2.8	3.4	19	26	16	7.15	(16,000)	(16,000)
8-Jun-07	78.1	10	15	6	16	1,249	2.44	2.6	3.3	20	26	15	7.18	350	170
9-Jun-07	65.7	15	13	7	19	1,248	2.55	3.2	3.3	25	26	16	7.07	79	49
10-Jun-07	66.6	18	15	7	20	1,331	2.84	4.2	3.3	26	25	16	6.99	130	49
11-Jun-07	68.9	13	20	6	20	1,377	2.85	3.7	3.3	25	25	16	7.24	350	240
12-Jun-07	66.1	6	13	5	20	1,322	2.78	3.6	3.3	24	25	19	7.22	130	130
13-Jun-07	103.0	14	21	8	14	1,442	2.15	3.0	3.3	19	25	17	7.07	(24,000)	(24,000)
14-Jun-07	80.3	9	15	5	16	1,285	2.40	2.4	3.3	17	24	17	7.25	350	350
15-Jun-07	71.9	7	16	5	18	1,295	2.70	2.9	3.3	20	24	17	7.24	920	920
16-Jun-07	66.0	10	14	6	19	1,254	2.63	2.8	3.2	21	23	17	7.05	1,600	1,600
17-Jun-07	65.7	17	26	14	19	1,248	2.67	2.7	3.2	20	23	17	7.19	240	130
18-Jun-07	127.7	13	20	9	12	1,532	1.71	2.4	3.1	18	23	17	na	(92,000)	(35,000)
19-Jun-07	95.9	10	14	7	13	1,247	1.88	2.4	3.1	18	22	17	7.18	54,000	54,000
20-Jun-07	109.1	10	11	5	12	1,309	2.06	2.2	3.0	16	22	16	6.98	(9,200)	(9,200)
21-Jun-07	81.1	4	17	3	16	1,298	2.45	3.1	3.0	22	22	17	7.23	49	49
22-Jun-07	75.7	<4	13	3	18	1,362	2.46	2.3	3.0	17	23	17	7.26	1,600	95
23-Jun-07	70.5	7	17	5	17	1,198	2.41	2.8	3.0	19	23	17	7.02	130	130
24-Jun-07	121.3	8	16	6	13	1,577	1.30	1.5	3.0	15	24	17	7.14	(540)	(49)
25-Jun-07	140.0	16	27	11	10	1,400	1.23	1.8	3.0	14	24	17	6.82	(92,000)	(9,200)
26-Jun-07	117.0	8	13	5	12	1,404	1.53	1.7	3.1	14	25	17	7.33	(2,400)	(2,400)
27-Jun-07	84.9	4	14	2	15	1,273	2.11	2.6	3.2	19	25	17	7.13	13	11
28-Jun-07	76.5	5	22	4	16	1,223	2.33	3.0	3.3	19	25	17	7.28	540	350
29-Jun-07	77.2	<4	16	6	16	1,235	2.33	2.9	3.4	19	26	18	7.28	49	11
30-Jun-07	65.9	4	13	3	16	1,054	2.46	3.0	3.5	19	25	18	7.00	49	33
Max:	140.0														
Min:	62.8														
Average:	84.0	10	18	7	17	1,336	2.45	2.89		21		17	7.13		
Geo.Mean:														219	129

- 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 98.6 ML/D per clause 26 of Licence 2716.
 - (6) Bracketed Coliform results not used in the Geometric Mean calculation.
 - (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process.