

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
August, 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-Aug-07	56.6	8	>75	7	20	1,132	2.96	2.8	3.3	20	23	20	6.84	79	49
2-Aug-07	52.7	9	> 76	6	23	1,211	3.06	4.0	3.3	30	23	20	6.64	130	23
3-Aug-07	51.5	11	>75	7	23	1,184	3.22	4.2	3.4	31	24	19	7.01	17	5
4-Aug-07	46.6	13	70	7	24	1,119	3.45	4.6	3.4	32	24	20	6.79	2	2
5-Aug-07	44.0	19	>77	8	23	1,013	3.60	5.0	3.5	33	24	20	6.76	2	2
6-Aug-07	47.3	23	101	11	23	1,089	3.84	5.3	3.5	34	25	19	6.80	8	<2
7-Aug-07	51.3	20	105	10	23	1,180	3.82	5.1	3.6	31	25	19	7.05	23	5
8-Aug-07	53.1	13	51	9	24	1,274	3.98	5.0	3.6	31	25	19	6.99	1,200	460
9-Aug-07	52.6	9	38	6	23	1,209	3.96	4.1	3.7	26	26	20	6.91	540	240
10-Aug-07	57.8	11	26	8	22	1,272	3.99	4.6	3.7	27	26	19	7.16	1,600	540
11-Aug-07	50.8	7	35	4	23	1,167	3.46	3.6	3.7	26	26	20	6.78	33	13
12-Aug-07	48.7	6	29	5	23	1,121	3.71	4.1	3.7	28	26	19	6.78	5	2
13-Aug-07	51.6	7	34	4	23	1,186	4.10	2.4	3.7	19	26	18	6.79	23	17
14-Aug-07	51.3	7	22	4	23	1,180	4.11	4.1	3.8	26	26	18	7.02	920	9
15-Aug-07	52.2	5	15	4	23	1,199	4.30	4.3	3.8	26	26	20	6.77	240	<2
16-Aug-07	51.2	4	25	5	23	1,177	4.28	4.6	3.8	30	27	19	7.00	49	17
17-Aug-07	51.3	4	18	5	25	1,283	4.85	4.7	3.9	28	27	18	7.02	1,600	240
18-Aug-07	47.7	<4	13	3	24	1,144	4.30	4.1	3.9	29	27	19	6.86	<2	<2
19-Aug-07	47.7	6	17	4	23	1,096	4.07	3.9	3.9	27	27	19	6.90	<2	<2
20-Aug-07	52.6	6	23	4	16	841	4.01	3.3	3.9	22	27	19	6.77	49	14
21-Aug-07	57.2	8	21	5	19	1,087	3.28	4.2	3.9	26	27	20	6.96	70	49
22-Aug-07	53.0	5	17	3	19	1,006	3.58	4.3	4.0	27	27	19	7.00	13,000	3,300
23-Aug-07	50.6	4	17	3	25	1,265	4.35	4.9	4.0	31	27	19	6.90	920	33
24-Aug-07	50.8	4	20	5	21	1,066	4.70	5.6	4.0	31	27	19	7.06	240	11
25-Aug-07	48.7	4	13	5	20	975	3.96	4.7	4.1	30	27	19	7.04	130	13
26-Aug-07	49.3	5	18	4	24	1,183	4.19	4.9	4.2	30	28	19	7.00	49	5
27-Aug-07	51.1	8	22	4	23	1,175	3.47	4.2	4.2	30	28	19	6.89	140	49
28-Aug-07	51.0	9	21	5	25	1,274	4.33	5.2	4.3	32	28	19	6.73	79	11
29-Aug-07	52.6	11	20	6	23	1,209	3.36	4.2	4.3	31	28	19	6.70	440	230
30-Aug-07	52.9	6	25	4	24	1,269	3.51	4.3	4.3	31	28	19	6.53	220	170
31-Aug-07	51.6	7	19	3	24	1,238	4.09	4.7	4.4	31	29	20	6.55	130	49
Max:	57.8														
Min:	44.0														
Average:	51.1	8	37	5	23	1,156	3.87	4.35		28		19	6.87		
Geo.Mean:														79	19

- 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.