

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
July, 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-Jul-07	73.9	11	23	10	15	1,108	2.24	2.9	2.9	20	20	18	6.99	4	4
2-Jul-07	81.5	6	16	5	12	978	1.87	2.4	2.9	17	20	18	7.01	23	13
3-Jul-07	85.2	7	12	4	13	1,108	2.23	2.8	2.9	19	20	18	7.09	(920)	(350)
4-Jul-07	73.3	4	11	3	15	1,100	2.85	3.2	2.9	20	20	18	6.99	79	22
5-Jul-07	69.6	5	21	4	18	1,253	3.21	3.6	2.8	21	20	18	7.27	920	79
6-Jul-07	67.5	4	18	4	19	1,283	2.73	3.0	2.8	22	19	18	7.37	540	350
7-Jul-07	62.7	4	16	3	20	1,255	2.71	3.2	2.8	23	20	na	7.00	17	8
8-Jul-07	60.4	<4	13	3	19	1,148	2.93	3.3	2.8	24	20	18	7.16	49	17
9-Jul-07	61.5	6	17	7	20	1,229	3.61	4.1	2.9	25	20	18	7.21	350	110
10-Jul-07	101.1	5	15	5	13	1,314	2.15	2.2	2.8	15	19	18	6.88	(170)	(110)
11-Jul-07	71.3	4	10	2	17	1,212	3.14	3.4	2.8	20	19	18	7.27	170	110
12-Jul-07	62.0	5	14	3	20	1,239	3.59	3.7	2.8	23	19	18	7.18	240	240
13-Jul-07	69.8	5	14	9	19	1,326	3.41	3.6	2.8	21	19	18	7.01	350	130
14-Jul-07	67.7	6	10	5	18	1,219	2.67	2.5	2.8	18	19	18	8.80	33	33
15-Jul-07	60.9	<4	12	2	18	1,096	2.51	2.8	2.8	21	19	18	8.97	33	17
16-Jul-07	61.3	4	18	3	20	1,227	3.63	4.0	2.8	24	19	18	6.81	130	34
17-Jul-07	58.1	5	17	3	20	1,161	3.52	3.3	2.9	27	20	18	7.01	49	33
18-Jul-07	58.3	4	12	3	21	1,224	3.23	3.6	2.9	26	20	19	6.88	79	17
19-Jul-07	57.4	5	20	5	23	1,319	3.75	3.8	2.9	27	20	18	7.10	130	11
20-Jul-07	56.9	5	24	5	23	1,308	3.64	3.8	3.0	26	20	19	6.82	17	5
21-Jul-07	53.3	5	26	3	23	1,225	3.41	3.3	3.0	25	21	19	6.86	4	4
22-Jul-07	54.1	5	22	3	22	1,190	3.39	3.6	3.0	24	21	19	6.96	na	na
23-Jul-07	56.4	9	42	4	22	1,241	3.47	3.5	3.1	26	21	18	7.07	460	26
24-Jul-07	55.4	6	42	4	22	1,218	3.33	3.5	3.1	25	21	20	7.08	49	22
25-Jul-07	57.4	14	42	11	22	1,262	3.69	4.1	3.2	26	22	20	6.78	33	11
26-Jul-07	70.2	6	40	4	15	1,054	1.80	2.2	3.3	19	22	19	7.01	140	64
27-Jul-07	55.6	4	57	5	22	1,223	2.17	2.7	3.4	24	23	19	7.08	79	79
28-Jul-07	52.4	5	66	4	21	1,101	3.04	2.9	3.4	23	24	19	6.82	<2	<2
29-Jul-07	52.5	6	78	4	21	1,103	3.11	3.3	3.4	25	24	19	6.92	<2	<2
30-Jul-07	55.1	11	>77	5	21	1,158	3.54	3.4	3.4	23	24	20	6.73	79	3
31-Jul-07	54.5	5	>75	7	21	1,145	3.76	4.1	3.5	27	24	19	6.94	49	17
Max:	101.1														
Min:	52.4														
Average:	64.8	6	28	5	19	1,194	3.04	3.28		23		18	7.13		
Geo.Mean:														53	21

- 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.