

City of Winnipeg
Water and Waste Department
South 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	52.9	6	12	5	27	1,428	3.58	3.6	3.9	28	27	15	6.72	350	350
2-May-07	53.1	7	11	5	28	1,486	3.62	3.7	4.0	29	27	15	7.25	170	170
3-May-07	53.4	6	12	5	28	1,495	3.96	4.4	4.0	32	28	15	6.78	79	79
4-May-07	66.2	12	16	7	25	1,654	3.47	3.9	4.1	29	28	15	7.15	49	49
5-May-07	84.4	10	16	7	18	1,519	1.58	2.1	4.0	21	28	14	6.96	49	49
6-May-07	80.6	7	13	7	18	1,451	1.74	2.3	4.0	22	28	14	6.94	79	79
7-May-07	66.3	10	17	6	21	1,391	1.99	2.5	3.9	25	28	14	7.17	540	540
8-May-07	59.2	12	<10	4	23	1,362	2.18	2.6	3.9	28	28	15	7.24	240	240
9-May-07	57.4	5	10	5	25	1,435	2.93	3.2	3.9	29	28	15	7.20	79	79
10-May-07	55.8	7	15	6	27	1,506	3.22	3.7	3.9	34	28	15	7.02	130	79
11-May-07	54.9	7	15	5	28	1,537	3.16	3.8	3.8	33	28	16	na	350	110
12-May-07	54.6	7	<10	5	27	1,474	3.09	3.7	3.8	32	29	15	6.87	79	11
13-May-07	55.0	5	<10	5	26	1,430	2.96	3.7	3.8	31	29	15	7.24	5	5
14-May-07	64.0	10	16	8	25	1,600	2.76	3.6	3.8	31	29	18	7.24	130	79
15-May-07	56.4	4	13	5	25	1,409	2.30	3.0	3.7	30	29	15	7.08	79	79
16-May-07	56.4	6	16	4	28	1,578	3.23	3.8	3.7	33	29	15	7.06	350	350
17-May-07	55.6	9	21	6	28	1,556	3.84	4.0	3.7	32	29	15	7.13	220	220
18-May-07	54.8	6	17	5	28	1,534	3.96	4.0	3.7	30	29	19	7.02	540	540
19-May-07	51.1	6	15	5	28	1,430	3.52	3.8	3.7	32	29	16	6.88	49	49
20-May-07	49.2	5	13	5	28	1,377	3.66	4.2	3.7	33	29	15	6.97	13	13
21-May-07	56.1	16	17	7	26	1,459	3.61	4.1	3.7	31	29	15	6.91	33	33
22-May-07	129.7	28	33	17	12	1,556	1.45	2.2	3.6	19	29	15	7.10	(54,000)	(54,000)
23-May-07	127.8	10	18	11	11	1,406	1.72	2.2	3.6	18	29	15	7.27	(5,400)	(5,400)
24-May-07	88.5	5	12	5	15	1,328	2.60	3.1	3.5	21	29	15	7.30	16,000	16,000
25-May-07	73.4	11	24	5	19	1,394	3.09	3.5	3.5	24	29	14	na	350	350
26-May-07	100.0	18	23	15	15	1,499	2.23	2.7	3.5	19	28	14	7.10	(350)	(350)
27-May-07	93.0	7	13	7	14	1,302	1.84	2.3	3.4	19	28	14	7.22	920	240
28-May-07	86.7	13	18	11	16	1,388	2.58	2.9	3.4	20	27	15	7.07	350	350
29-May-07	98.7	7	12	7	14	1,382	2.18	2.8	3.3	22	27	15	7.22	(9,200)	(5,400)
30-May-07	81.6	8	13	6	16	1,306	2.80	3.4	3.3	23	27	15	7.32	130	130
31-May-07	78.2	9	18	7	16	1,252	2.77	3.2	3.3	22	27	15	7.43	130	130
Max:	129.7														
Min:	49.2														
Average:	69.1	9	15	7	22	1,449	2.83	3.29		27		15	7.10	149	121
Geo.Mean:															

- 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.