

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
November, 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-Nov-07	52.6	10	60	4	25	1,316	4.79	nr	3.8	nr	26	17	6.62	230	36
2-Nov-07	52.6	8	60	5	25	1,316	5.04	5.5	3.9	27	26	18	6.65	36	23
3-Nov-07	49.9	10	37	7	25	1,248	4.67	4.5	3.9	nr	26	18	6.78	<2	<2
4-Nov-07	53.2	10	33	7	27	1,435	4.91	5.4	3.9	28	26	18	6.72	23	23
5-Nov-07	49.2	13	37	6	24	1,182	3.35	3.6	3.9	nr	26	18	6.60	430	93
6-Nov-07	49.3	8	34	4	25	1,233	2.34	2.2	3.8	nr	26	17	6.80	430	36
7-Nov-07	49.2	8	37	4	26	1,280	3.37	3.6	3.8	28	26	17	6.68	930	29
8-Nov-07	49.2	7	26	5	27	1,328	4.12	4.0	3.8	27	26	17	6.64	930	36
9-Nov-07	51.6	7	24	4	25	1,290	3.87	4.1	3.9	26	25	17	6.61	93	21
10-Nov-07	48.8	7	22	5	26	1,270	4.45	nr	3.9	nr	25	17	6.79	23	4
11-Nov-07	48.6	7	20	5	25	1,214	4.31	5.2	3.9	30	25	18	6.84	36	23
12-Nov-07	49.9	10	25	5	24	1,198	4.46	4.6	3.9	27	25	17	6.59	36	15
13-Nov-07	47.2	7	21	5	25	1,181	4.21	nr	3.9	nr	25	17	6.57	92,000	3,600
14-Nov-07	46.3	10	18	4	21	972	4.81	5.8	3.9	34	26	17	6.69	92	23
15-Nov-07	48.7	8	21	5	21	1,022	5.33	6.1	4.0	33	26	17	6.60	92	92
16-Nov-07	48.0	7	18	5	21	1,007	5.82	nr	4.0	nr	26	17	6.64	43	9
17-Nov-07	48.9	11	23	10	21	1,026	5.22	nr	4.0	nr	26	16	6.85	43	23
18-Nov-07	50.2	15	22	8	20	1,004	4.99	5.5	4.0	29	26	16	6.70	360	23
19-Nov-07	49.9	8	20	6	19	947	3.50	4.1	4.0	27	26	17	6.63	360	230
20-Nov-07	50.3	8	40	5	19	955	3.50	3.2	4.0	23	26	17	6.64	430	36
21-Nov-07	48.5	6	23	4	25	1,213	3.47	3.3	4.0	25	26	15	6.74	360	23
22-Nov-07	48.0	10	39	6	25	1,201	3.94	3.2	3.9	24	25	15	6.71	92	36
23-Nov-07	49.0	7	31	5	25	1,225	4.19	4.0	4.0	29	25	16	6.64	230	36
24-Nov-07	49.9	6	24	6	25	1,247	4.35	4.4	4.1	30	26	14	6.85	<3	<3
25-Nov-07	49.5	7	21	5	25	1,238	3.91	3.5	4.1	20	26	16	6.86	4	<3
26-Nov-07	48.4	8	36	5	25	1,211	3.29	nr	4.1	nr	26	16	6.65	74	4
27-Nov-07	47.3	8	36	5	26	1,229	3.56	nr	4.1	nr	26	14	6.75	15,000	15,000
28-Nov-07	47.4	7	35	5	27	1,281	3.95	3.4	4.1	24	26	14	6.69	74	14
29-Nov-07	45.8	8	39	5	27	1,237	4.23	4.5	4.2	31	26	14	6.71	360	230
30-Nov-07	48.3	5	28	5	28	1,352	4.25	4.2	4.2	27	27	15	6.61	36	7
Max:	53.2														
Min:	45.8														
Average:	49.3	8	30	5	24	1,195	4.21	4.26		27		16	6.70		
Geo.Mean:														121	29

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.
- (8) The results for Total Nitrogen and Phosphorus are lower than normal due to technical difficulties with our analysis. Total Phosphorus and Total Nitrogen results are corrected based on the recovery of a quality control standard