

City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
January 2008

Date	Raw Sewage	Final Effluent 24 Hour Composite									Final Effluent Grab Sample			
	Daily Flow	TSS	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML	(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-Jan-08	22.1	4	6	30	664	3.43	2.8	2.8	29	27	1	7.54	9,200	9,200
2-Jan-08	22.2	22	8	32	709	3.49	4.2	2.8	24	27	0	7.54	9,200	9,200
3-Jan-08	22.7	5	5	31	705	3.49	2.9	2.8	26	27	1	7.48	93,000	9,200
4-Jan-08	22.2	4	5	34	754	3.55	6.0	3.0	27	27	1	7.50	93,000	93,000
5-Jan-08	22.7	<4	6	32	727	3.55	3.9	3.0	28	27	1	7.52	23,000	23,000
6-Jan-08	23.7	4	5	33	782	3.56	4.3	3.1	27	28	1	7.54	43,000	43,000
7-Jan-08	23.2	4	5	34	788	3.70	3.6	3.1	28	28	1	7.53	43,000	43,000
8-Jan-08	21.6	4	6	35	755	3.76	3.1	3.1	25	28	1	7.35	93,000	93,000
9-Jan-08	21.7	5	7	34	739	3.84	3.1	3.2	26	28	1	7.49	240,000	93,000
10-Jan-08	21.9	5	7	34	745	3.76	4.1	3.2	29	28	1	7.74	460,000	460,000
11-Jan-08	22.5	4	9	33	743	3.76	4.3	3.3	33	28	1	7.50	460,000	460,000
12-Jan-08	23.7	<4	8	34	805	3.81	5.3	3.4	37	29	1	7.51	43,000	43,000
13-Jan-08	24.6	5	7	34	836	3.92	4.3	3.4	30	29	1	7.47	23,000	23,000
14-Jan-08	23.1	5	8	34	784	4.14	3.2	3.4	24	28	0	7.41	240,000	240,000
15-Jan-08	22.6	6	9	35	792	4.26	4.1	3.5	29	28	0	7.50	240,000	240,000
16-Jan-08	22.3	4	nr	34	758	4.38	4.1	3.5	30	28	1	7.60	>110000	>110000
17-Jan-08	22.4	10	11	35	785	4.00	4.0	3.6	30	28	0	7.39	1,100,000	1,100,000
18-Jan-08	22.4	6	10	35	783	4.07	4.2	3.6	31	28	0	7.41	240,000	240,000
19-Jan-08	23.6	5	15	36	848	4.18	4.4	3.7	31	28	0	7.33	240,000	240,000
20-Jan-08	24.2	7	10	36	872	4.14	4.2	3.7	32	28	0	7.34	240,000	240,000
21-Jan-08	22.8	6	11	37	845	4.29	5.6	3.8	37	29	0	7.43	2,300	2,300
22-Jan-08	22.2	6	13	37	821	4.42	4.5	3.9	35	29	0	7.44	2,300	2,300
23-Jan-08	22.4	ns	ns	ns	ns	ns	ns	3.9	ns	29	0	7.44	240,000	240,000
24-Jan-08	22.5	ns	ns	ns	ns	ns	ns	3.9	ns	29	0	7.42	1,100,000	1,100,000
25-Jan-08	22.7	7	>15	37	838	4.56	3.8	3.9	30	29	1	7.42	150,000	150,000
26-Jan-08	23.6	<4	15	39	920	4.72	4.4	3.9	33	29	1	7.34	240,000	240,000
27-Jan-08	24.2	8	> 15	39	944	4.49	4.4	4.0	31	29	1	7.37	1,100,000	1,100,000
28-Jan-08	23.6	9	> 15	40	942	4.55	5.5	4.0	41	29	1	7.31	460,000	460,000
29-Jan-08	23.1	9	> 15	39	899	4.64	5.5	4.1	40	30	0	7.42	1,100,000	1,100,000
30-Jan-08	22.5	8	>17	41	923	4.83	5.2	4.2	38	30	0	7.38	460,000	460,000
31-Jan-08	22.7	9	>14	43	976	4.98	6.1	4.3	41	31	0	7.38	460,000	460,000
Max:	24.6													
Min:	21.6													
Average:	22.8	7	8	35	810	4.08	4.3		31		1	7.45		
Geo.Mean:													124,714	111,867

- Notes:**
- (1) * = 30 day rolling average
 - (2) Effluent ammonia load based upon Raw Sewage flows and Final Cell NH3-N concentrations
 - (3) nr - not recorded or no result; na - not analyzed; ns - no sample
 - (4) Final Effluent flow data unavailable
 - (5) Where < values are reported 50% of the MDL is used for calculated results
 - (6) Licence No. 2669 E R
 - (7) 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