

City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
November, 2004

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	
01-Nov-04	42.9	6	3	13	560	1.65	1.6	1.8	16	15	8	8.25	43	43
02-Nov-04	42.2	7	3	14	590	1.71	1.8	1.8	17	15	5	8.07	93	93
03-Nov-04	41.3	5	3	15	620	1.82	1.8	1.8	16	15	8	8.13	9	9
04-Nov-04	39.9	7	<2	16	640	1.84	1.8	1.8	18	15	8	8.30	38	38
05-Nov-04	39.3	<4	<2	15	590	2.03	1.8	1.8	18	16	8	8.21	23	23
06-Nov-04	39.7	<4	<2	15	600	2.04	1.9	1.8	18	16	8	8.15	14	14
07-Nov-04	39.9	4	2	15	600	1.95	1.9	1.8	18	16	5	8.17	23	23
08-Nov-04	37.9	6	2	15	570	1.99	1.9	1.8	18	16	8	8.15	43	43
09-Nov-04	37.7	5	<2	15	560	2.00	1.8	1.8	19	16	8	8.15	9	4
10-Nov-04	36.0	4	<2	15	540	1.97	1.9	1.8	18	16	6	8.28	2	2
11-Nov-04	37.3	4	<2	15	560	2.18	2.0	1.8	19	16	2	8.22	9	9
12-Nov-04	35.6	<4	3	16	570	2.18	1.9	1.8	20	16	ns	ns	ns	ns
13-Nov-04	35.8	<4	<2	15	540	1.99	2.0	1.8	19	16	5	8.17	2	2
14-Nov-04	37.1	5	3	17	630	2.30	2.0	1.8	20	17	5	8.19	9	9
15-Nov-04	35.9	5	<2	17	610	2.22	2.2	1.8	22	17	3	8.19	9	4
16-Nov-04	34.3	5	2	16	550	2.29	2.3	1.8	18	17	4	8.11	93	93
17-Nov-04	33.9	7	3	17	580	2.23	2.3	1.8	19	17	2	8.23	930	930
18-Nov-04	34.1	4	3	17	580	2.19	2.2	1.8	18	17	2	8.18	2,300	2,300
19-Nov-04	34.4	<4	<2	17	580	2.26	2.1	1.9	18	17	2	8.19	2,300	2,300
20-Nov-04	35.4	<4	3	16	570	2.10	2.3	1.9	19	18	3	8.10	4,300	2,300
21-Nov-04	36.5	<4	3	17	620	2.20	2.1	1.9	18	18	3	8.14	2,300	930
22-Nov-04	36.5	11	2	17	620	2.15	1.8	1.9	19	18	2	8.06	43,000	43,000
23-Nov-04	34.5	5	3	18	620	2.20	2.2	1.9	19	18	2	8.09	2,300	430
24-Nov-04	34.1	4	2	18	610	2.24	2.3	1.9	20	18	1	8.17	43,000	23,000
25-Nov-04	34.1	<4	2	17	580	2.17	2.0	2.0	19	18	1.5	8.07	4,300	4,300
26-Nov-04	33.7	4	3	17	570	2.17	2.2	2.0	20	18	2	8.17	4,300	4,300
27-Nov-04	34.8	<4	3	18	630	2.19	2.2	2.0	21	18	1	8.06	1,500	1,500
28-Nov-04	35.2	5	3	18	630	2.25	2.3	2.0	21	18	2	8.06	2,300	2,300
29-Nov-04	34.7	4	2	19	660	2.16	2.2	2.0	21	19	2	8.18	930	430
30-Nov-04	33.7	<4	3	18	600	2.15	2.3	2.0	21	19	2	8.21	2,300	2,300
Total:	1098													
Max:	42.9													
Min:	33.7													
Average:	36.6	4	2	16	590	2.09	2.0		19		4	8.16		
Geo.Mean:													212	171

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; na - not analyzed; ns - no sample

(4) Final Effluent flow data unavailable

(5) November 15-system changed from 5-cell to 2-cell operating mode