

**City of Winnipeg**  
**Water and Waste Department**  
**North End Water Pollution Control Centre Monitoring Data**  
**June, 2005**

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-Jun-05	270.1	13	20	7	22.0	5,940	na	2.7	*	25	*	15.0	7.72	na	93,000
2-Jun-05	213.6	11	20	4	na	nr	na	na	*	na	*	16.0	7.76	na	93,000
3-Jun-05	318.2	34	28	14	15.0	4,770	na	2.0	*	17	*	16.0	7.75	na	na
4-Jun-05	195.1	7	17	5	na	nr	na	na	*	na	*	16.0	7.74	na	na
5-Jun-05	235.6	10	19	6	15.0	3,530	na	2.1	*	19	*	16.0	7.78	na	na
6-Jun-05	195.3	8	21	5	16.0	3,130	na	2.4	*	19	*	15.5	7.89	na	43,000
7-Jun-05	353.7	33	35	13	13.0	4,600	na	2.2	*	16	*	15.5	6.95	na	150,000
8-Jun-05	411.7	32	28	15	12.0	4,940	na	1.9	*	16	*	15.0	7.06	na	230,000
9-Jun-05	345.4	11	19	5	13.0	4,490	na	1.8	*	18	*	15.0	7.17	na	43,000
10-Jun-05	251.5	8	21	6	14.0	3,520	na	1.8	*	17	*	15.0	7.76	na	150,000
11-Jun-05	249.7	35	32	13	12.0	3,000	na	1.9	*	17	*	15.0	7.17	na	43,000
12-Jun-05	618.9	30	39	10	6.0	3,710	na	1.4	*	11	*	15.0	7.12	na	93,000
13-Jun-05	388.8	17	18	9	16.0	6,220	na	2.1	*	21	*	15.0	7.33	na	230,000
14-Jun-05	552.0	48	28	14	13.0	7,180	na	1.7	*	17	*	15.0	7.27	na	2,300,000
15-Jun-05	565.1	21	19	9	12.0	6,780	na	2.0	*	19	*	16.0	7.30	93,000	93,000
16-Jun-05	362.9	11	16	5	16.0	5,810	na	1.9	*	21	*	16.0	7.31	43,000	23,000
17-Jun-05	307.5	9	17	5	16.0	4,920	na	1.8	*	19	*	16.5	7.26	75,000	21,000
18-Jun-05	301.2	9	22	4	16.0	4,820	na	1.5	*	17	*	16.5	7.19	38,000	23,000
19-Jun-05	271.7	5	19	4	16.0	4,350	na	2.0	*	19	*	17.0	7.17	9,300	4,300
20-Jun-05	271.1	4	22	4	18.0	4,880	2.22	2.3	*	27	*	17.0	7.10	23,000	4,300
21-Jun-05	287.4	6	26	5	20.0	5,750	2.27	2.4	*	24	*	17.0	6.97	9,300	9,300
22-Jun-05	239.2	9	33	5	21.0	5,020	2.43	2.3	*	25	*	18.0	7.00	9,300	4,300
23-Jun-05	256.7	5	35	5	21.0	5,390	2.39	2.2	*	22	*	19.0	7.03	43,000	43,000
24-Jun-05	240.3	5	25	4	21.0	5,050	2.47	2.3	*	25	*	18.0	6.89	23,000	9,300
25-Jun-05	224.4	8	nr	nr	21.0	4,710	2.54	2.6	*	25	*	18.0	7.05	4,300	4,300
26-Jun-05	298.2	20	34	12	13.0	3,880	1.73	1.7	*	16	*	17.5	7.02	230,000	230,000
27-Jun-05	432.9	10	25	6	10.0	4,330	1.50	1.9	*	15	*	19.0	6.96	150,000	93,000
28-Jun-05	301.5	6	19	4	17.0	5,130	2.13	2.1	*	25	*	18.0	6.99	230,000	230,000
29-Jun-05	502.6	61	33	13	6.0	3,020	1.04	1.4	*	18	*	18.0	6.86	23,000	23,000
30-Jun-05	714.3	ns	ns	ns	ns	nr	ns	ns	*	ns	*	16.0	7.40	230,000	230,000
<b>Total:</b>	10180														
<b>Max:</b>	714.3														
<b>Min:</b>	195.1														
<b>Average:</b>	<b>339.2</b>	<b>17</b>	<b>25</b>	<b>8</b>	<b>15</b>	<b>4,770</b>	<b>2.07</b>	<b>2.0</b>		<b>20</b>		<b>16.5</b>	<b>7.27</b>		
<b>Geo.Mean:</b>														<b>39,700</b>	<b>49,600</b>

**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