

**City of Winnipeg
Water and Waste Department**

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 24, 2008		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	24.6	23.6	22.9	24.1	23.2	23.8	24.0	23.4	23.4	23.1
Dissolved Oxygen	mg/L	8.1	8.1	6.5	8.2	7.2	7.2	7.2	7.0	6.9	7.9
Oxygen Saturation ²	%	98	96	76	99	85	86	86	83	82	93
pH	units	8.49	8.56	8.19	8.54	8.18	8.23	8.21	8.18	8.14	8.20
Total Solids	mg/L	757	773	643	813	643	520	523	543	570	573
Total Suspended Solids	mg/L	218	262	111	276	204	51	65	63	63	51
Turbidity	n.t.u.	121	153	73	161	163	52	58	51	49	45
Total Organic Carbon	mg/L	11	11	11	11	13	14	14	13	13	13
Chlorophyll a	ug/L	70	86	56	82	12	14	12	26	27	42
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.006	0.164	0.048	0.045	0.320	0.174
Nitrate Nitrogen	mg/L N	0.014	0.011	0.018	0.020	0.464	0.506	0.456	0.277	0.319	0.507
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.03	<0.01	0.04	0.02	0.13	0.16	0.14	0.12	0.17	0.17
Total Phosphorus	mg/L P	0.30	0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	4	<2	42	<2	13	<2	<2	17	344	2
Fecal Coliform ³	colonies/100 mL	170	30	900	23	23	50	130	1400	2800	30

Weather Conditions during monitoring: Winds W at 18 km/hr with 66% cloud cover. Average air temperature during survey at 24.3 °C

- Notes:
- 1) LIMS Reference No: 20684
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.5 ft

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