

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : May 1, 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 <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	10.1	9.7	9.3	9.5	8.9	9.4	8.6	8.5	8.5	7.8
Dissolved Oxygen	mg/L	11.1	11.1	11.1	11.2	11.8	11.8	11.8	11.6	11.6	12.2
Oxygen Saturation <sup>2</sup>	%	99	98	97	98	102	103	101	99	99	103
pH	units	8.45	8.45	8.43	8.45	8.47	8.45	8.42	8.42	8.40	8.38
Total Solids	mg/L	763	730	773	707	747	767	803	760	727	653
Total Suspended Solids	mg/L	255	251	264	187	300	282	320	282	251	270
Turbidity	n.t.u.	115	119	128	123	171	170	198	161	160	170
Total Organic Carbon	mg/L	10	10	10	10	9	9	9	10	9	9
Chlorophyll a	ug/L	14	16	14	16	19	21	21	14	19	21
Ammonia Nitrogen	mg/L N	0.022	0.003	0.012	<0.003	0.021	0.073	0.116	0.112	0.212	0.352
Nitrate Nitrogen	mg/L N	1.386	2.725	1.327	1.307	0.993	1.013	1.061	1.143	1.096	1.129
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 <sup>2</sup>	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1
Soluble Phosphorus	mg/L P	0.12	0.12	0.11	0.10	0.11	0.12	0.13	0.13	0.15	0.15
Total Phosphorus	mg/L P	0.50	0.40	0.30	0.40	0.50	0.40	0.50	0.50	0.40	0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	23	15	36	9	23	9	15	230	92	230
Fecal Coliform <sup>3</sup>	colonies/100 mL	36	15	36	9	230	9	15	230	92	230

Weather Conditions during monitoring: Winds NE at 26 km/hr with no cloud cover. Average air temperature during survey at 9 °C.

- Notes:
- 1) LIMS Reference No: 19902
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: Not Taken

Report Compiled By: J. Jones  
Compliance Reporting Technician

Approved for Distribution By: S. Fletcher  
Supervisor of Analytical Services

Date Approved: 05-Aug-08

Distribution List (E-mail)

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