

**City of Winnipeg
Water and Waste Department**

2010 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 5, 2010		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	23.8	23.8	23.4	NS	NS	24.3	24.3	24.0	23.8	24.1
Dissolved Oxygen	mg/L	7.3	7.2	7.3	NS	NS	6.9	6.9	7.0	7.0	7.4
Oxygen Saturation ²	%	87	86	87	NS	NS	83	83	84	84	89
pH	units	8.22	8.22	8.23	NS	NS	8.13	8.13	8.19	8.17	8.13
Total Solids	mg/L	996	972	1000	NS	NS	800	788	904	876	868
Total Suspended Solids	mg/L	238	240	270	NS	NS	254	274	274	280	220
Turbidity	n.t.u.	125	130	139	NS	NS	201	182	170	168	178
Total Organic Carbon	mg/L	17	17	18	NS	NS	14	13	16	16	17
Chlorophyll a	ug/L	11	11	28	NS	NS	7	4	11	59	77
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	NS	NS	0.007	<0.003	<0.003	0.016	0.014
Nitrate Nitrogen	mg/L N	0.268	0.279	0.288	NS	NS	0.420	0.422	0.369	0.403	0.453
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.21	0.21	0.21	NS	NS	0.17	0.17	0.18	0.19	0.21
Total Phosphorus	mg/L P	0.40	0.40	0.50	NS	NS	0.40	0.40	0.40	0.50	0.40
Escherichia Coliform ³	colonies/100 mL	93	230	930	NS	NS	930	430	150	150	930
Fecal Coliform ³	colonies/100 mL	230	230	2300	NS	NS	930	430	430	430	930

Weather Conditions during monitoring: Winds W at 15 km/hr with 100% cloud cover and 5 mm of precipitation. Average air temperature during survey at 17°C

- Notes:
- 1) LIMS Reference No: 26975
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 735.4 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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