

**City of Winnipeg
Water and Waste Department**

2010 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 23, 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	22.1	21.5	21.5	NS	NS	21.1	20.9	20.8	20.8	21.0
Dissolved Oxygen	mg/L	6.9	7.0	6.8	NS	NS	6.8	6.8	6.8	7.0	7.5
Oxygen Saturation ²	%	80	80	78	NS	NS	77	77	77	79	85
pH	units	8.17	8.19	8.21	NS	NS	8.03	8.03	8.08	8.04	8.04
Total Solids	mg/L	956	580	920	NS	NS	620	716	736	716	676
Total Suspended Solids	mg/L	362	170	350	NS	NS	200	190	238	256	240
Turbidity	n.t.u.	209	199	206	NS	NS	152	179	192	189	174
Total Organic Carbon	mg/L	15	17	14	NS	NS	17	16	18	16	16
Chlorophyll a	ug/L	7	5	2	NS	NS	5	2	2	5	7
Ammonia Nitrogen	mg/L N	0.398	<0.003	0.011	NS	NS	0.007	0.019	0.014	0.030	0.014
Nitrate Nitrogen	mg/L N	0.771	0.736	0.693	NS	NS	0.573	0.585	0.591	0.567	0.531
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	0.18	0.14	0.16	NS	NS	0.23	0.24	0.23	0.24	0.20
Total Phosphorus	mg/L P	0.50	0.40	0.50	NS	NS	0.50	0.50	0.50	0.50	0.50
Escherichia Coliform ³	colonies/100 mL	240	460	460	NS	NS	210	75	150	93	150
Fecal Coliform ³	colonies/100 mL	460	460	460	NS	NS	210	150	150	93	260

Weather Conditions during monitoring: Winds NW at 16 km/hr with 60% cloud cover. Average air temperature during survey at 22°C

- Notes:
- 1) LIMS Reference No: 26522
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 727.6 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

Report Compiled By: J. Jones
Compliance Reporting Technician

Approved in LIMS By: S. Fletcher
Supervisor of Analytical Services

Date Approved: 2-Jul-10

File No: 040-14-09-03-00