

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ :		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE ⁵	WEST PERIMETER BRIDGE ⁵	ASSINIBOINE PARK FOOT BRIDGE ⁵	MAIN STREET BRIDGE	ST.ADOLPHE PIERRE DELORME BRIDGE ⁵	SOUTH PERIMETER BRIDGE ⁵	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	NS	NS	NS	8.1	NS	NS	9.0	7.5	7.8	8.2	8.7
Dissolved Oxygen	mg/L	NS	NS	NS	12.2	NS	NS	12.0	12.8	12.4	12.3	12.9
Oxygen Saturation ²	%	NS	NS	NS	103	NS	NS	104	107	104	104	111
pH	units	NS	NS	NS	8.22	NS	NS	8.24	8.24	8.19	8.06	8.01
Total Solids	mg/L	NS	NS	NS	836	NS	NS	648	620	704	684	736
Total Suspended Solids	mg/L	NS	NS	NS	121	NS	NS	82	59	71	86	56
Turbidity	n.t.u.	NS	NS	NS	71.9	NS	NS	58.0	52.2	56.2	45.3	46.1
Total Organic Carbon	mg/L	NS	NS	NS	17	NS	NS	14	14	15	14	13
Chlorophyll a	ug/L	NS	NS	NS	2	NS	NS	9	5	6	6	8
Ammonia Nitrogen	mg/L N	NS	NS	NS	0.005	NS	NS	0.266	0.135	0.067	0.364	0.202
Nitrate Nitrogen	mg/L N	NS	NS	NS	0.866	NS	NS	0.409	0.423	0.596	0.647	0.746
Total Kjeldahl Nitrogen	mg/L N	NS	NS	NS	3.0	NS	NS	3.0	3.0	3.0	3.0	3.0
Total Nitrogen ²	mg/L N	NS	NS	NS	3.9	NS	NS	3.4	3.4	3.6	3.6	3.7
Soluble Phosphorus	mg/L P	NS	NS	NS	0.11	NS	NS	0.07	0.05	0.07	0.11	0.12
Total Phosphorus	mg/L P	NS	NS	NS	0.30	NS	NS	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	NS	NS	NS	930	NS	NS	2300	230	2300	1500	93
Fecal Coliform ³	colonies/100 mL	NS	NS	NS	930	NS	NS	4300	230	2300	4300	93

Weather Conditions during monitoring: Winds North at 18 km/hr with 80% cloud cover. Average air temperature during survey at 3.3°C

- Notes:
- 1) LIMS Reference No: 32492
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.2 ft.
 - 5) There are no samples at Headingley Bridge, West Perimeter Bridge, Assiniboine Park Foot Bridge, St. Adolphe Pierre Delorme Bridge, and South Perimeter Bridge due to a malfunction of the sampler.

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