

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : November 29, 2011		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	ST.ADOLPHE PIERRE DELORME BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	NS	NS	NS	0.3	NS	0.4	1.0	NS	NS	0.2
Dissolved Oxygen	mg/L	NS	NS	NS	15.8	NS	17.1	17.6	NS	NS	17.4
Oxygen Saturation ²	%	NS	NS	NS	109	NS	118	124	NS	NS	119
pH	units	NS	NS	NS	8.29	NS	8.39	8.51	NS	NS	8.25
Total Solids	mg/L	NS	NS	NS	872	NS	552	568	NS	NS	724
Total Suspended Solids	mg/L	NS	NS	NS	15	NS	<4	13	NS	NS	16
Turbidity	n.t.u.	NS	NS	NS	12	NS	7	10	NS	NS	14
Total Organic Carbon	mg/L	NS	NS	NS	15	NS	15	14	NS	NS	15
Chlorophyll a	ug/L	NS	NS	NS	17	NS	26	16	NS	NS	32
Ammonia Nitrogen	mg/L N	NS	NS	NS	<0.003	NS	0.258	0.167	NS	NS	0.518
Nitrate Nitrogen	mg/L N	NS	NS	NS	0.640	NS	0.093	0.123	NS	NS	0.478
Total Kjeldahl Nitrogen	mg/L N	NS	NS	NS	<2.0	NS	<2.0	<2.0	NS	NS	<2.0
Total Nitrogen ²	mg/L N	NS	NS	NS	<2.0	NS	<2.0	<2.0	NS	NS	<2.0
Soluble Phosphorus	mg/L P	NS	NS	NS	0.13	NS	0.10	0.08	NS	NS	0.20
Total Phosphorus	mg/L P	NS	NS	NS	<0.30	NS	<0.30	<0.30	NS	NS	<0.30
Escherichia Coliform ³	colonies/100 mL	NS	NS	NS	150	NS	43	210	NS	NS	93
Fecal Coliform ³	colonies/100 mL	NS	NS	NS	150	NS	75	210	NS	NS	230

Weather Conditions during monitoring: Winds S at 20 km/hr with 12 % cloud cover. Average air temperature during survey at -7.2 C

- Notes:
- 1) LIMS Reference No: 31378
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 729.8ft.
 - 5) There are no samples at Headingly Bridge, West Perimeter Bridge, Assiniboine Park Foot Bridge, St.Adolphe Pierre Delorme Bridge, Redwood Bridge, and North Perimeter Bridge due to ice conditions.

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