

**City of Winnipeg**  
**Water and Waste Department**

**2011 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : November 22, 2011		Red River Sampling Locations							
Parameter	Unit	ST.ADOLPHE PIERRE DELORME BRIDGE	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	COCKBURN AT BRIDGE DRIVE INN	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	NS	0.4	0.8	NS	0.8	NS	NS	0.6
Dissolved Oxygen	mg/L	NS	17.4	17.3	NS	17.3	NS	NS	17.4
Oxygen Saturation <sup>2</sup>	%	NS	120	121	NS	121	NS	NS	121
pH	units	NS	8.53	8.52	NS	8.46	NS	NS	8.33
Total Solids	mg/L	NS	572	548	NS	540	NS	NS	584
Total Suspended Solids	mg/L	NS	19	19	NS	18	NS	NS	17
Turbidity	n.t.u.	NS	14.3	13.5	NS	14.6	NS	NS	12.0
Total Organic Carbon	mg/L	NS	15	14	NS	15	NS	NS	15
Chlorophyll a	ug/L	NS	<1	34	NS	5	NS	NS	11
Ammonia Nitrogen	mg/L N	NS	0.028	0.309	NS	0.160	NS	NS	0.533
Nitrate Nitrogen	mg/L N	NS	0.085	0.108	NS	0.119	NS	NS	0.236
Total Kjeldahl Nitrogen	mg/L N	NS	<2.0	<2.0	NS	<2.0	NS	NS	<2.0
Total Nitrogen <sup>2</sup>	mg/L N	NS	<2.0	<2.0	NS	<2.0	NS	NS	<2.0
Soluble Phosphorus	mg/L P	NS	0.07	0.10	NS	0.08	NS	NS	0.15
Total Phosphorus	mg/L P	NS	<0.30	<0.30	NS	<0.30	NS	NS	<0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	NS	4	9	NS	23	NS	NS	230
Fecal Coliform <sup>3</sup>	colonies/100 mL	NS	4	23	NS	23	NS	NS	430

Weather Conditions during monitoring: Winds S at 31 km/hr with no cloud cover. Average air temperature during survey at -2.5 C

- Notes:
- 1) LIMS Reference No: 31318
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 730.4ft.
  - 5) There are no samples at St.Adolphe Pierre Delorme Bridge, Cockburn at Bridge Drive Inn, Redwood Bridge, and North Perimeter Bridge due to ice conditions.

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