

**City of Winnipeg  
Water and Waste Department**

**2011 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : September 15, 2011		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	SOUTH FLOODWAY CONTROL <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	17.3	NS	17.1	17.9	NS	17.7	16.7	17.3	17.1	17.9
Dissolved Oxygen	mg/L	9.1	NS	9.1	8.6	NS	8.8	9.1	8.6	9.0	9.2
Oxygen Saturation <sup>2</sup>	%	95	NS	95	91	NS	93	94	90	94	98
pH	units	8.28	NS	8.26	8.18	NS	8.15	8.29	8.25	8.30	8.18
Total Solids	mg/L	840	NS	812	832	NS	764	620	712	848	836
Total Suspended Solids	mg/L	156	NS	144	150	NS	170	110	196	154	168
Turbidity	n.t.u.	77	NS	76	73	NS	76	74	146	90	95
Total Organic Carbon	mg/L	18	NS	18	17	NS	14	14	16	16	15
Chlorophyll a	ug/L	1	NS	1	1	NS	2	2	1	1	1
Ammonia Nitrogen	mg/L N	0.018	NS	0.019	0.024	NS	0.050	0.061	0.052	0.132	0.178
Nitrate Nitrogen	mg/L N	0.231	NS	0.215	0.205	NS	0.446	0.465	0.335	0.352	0.399
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen <sup>2</sup>	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.24	NS	0.24	0.23	NS	0.22	0.23	0.24	0.26	0.32
Total Phosphorus	mg/L P	0.50	NS	0.80	0.70	NS	0.70	0.60	0.60	0.60	0.70
Escherichia Coliform <sup>3</sup>	colonies/100 mL	93	NS	230	150	NS	23	93	230	43	230
Fecal Coliform <sup>3</sup>	colonies/100 mL	93	NS	230	150	NS	23	93	230	43	230

Weather Conditions during monitoring: Winds NNW at 27 km/hr with 45 % cloud cover. Average air temperature during survey at 8 C

- Notes:
- 1) LIMS Reference No: 30770
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 733.8ft.
  - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

Report Compiled By: H.Demchenko  
Compliance Reporting Technician

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

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