

**City of Winnipeg  
Water and Waste Department**

**2012 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : September 19, 2012		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>	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	°C	12.5	12.8	12.7	12.7	NS	13.5	13.8	14.1	13.4	13.6	14.1
Dissolved Oxygen	mg/L	11.3	11.4	11.3	11.1	NS	10.3	9.9	9.7	11.3	11.2	11.1
Oxygen Saturation <sup>2</sup>	%	107	108	107	105	NS	99	96	95	109	108	108
pH	units	8.72	8.74	8.75	8.74	NS	8.69	8.48	8.52	8.74	8.69	8.61
Total Solids	mg/L	944	954	924	940	NS	836	838	802	850	862	836
Total Suspended Solids	mg/L	96	82	85	76	NS	39	35	25	34	37	40
Turbidity	n.t.u.	60	58	51	48	NS	41	39	26	27	28	32
Total Organic Carbon	mg/L	15	16	16	15	NS	13	13	12	14	15	15
Chlorophyll a	ug/L	62	61	66	62	NS	19	29	32	63	83	65
Ammonia Nitrogen	mg/L N	0.035	0.004	0.009	0.006	NS	<0.003	1.070	0.680	0.112	0.612	0.317
Nitrate Nitrogen	mg/L N	0.191	0.145	0.118	0.108	NS	0.005	0.064	0.173	0.057	0.129	0.357
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen <sup>2</sup>	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.11	0.09	0.09	0.09	NS	0.09	0.20	0.16	0.10	0.16	0.14
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	NS	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	93	93	930	430	NS	43	380	75	93	230	23
Fecal Coliform <sup>3</sup>	colonies/100 mL	430	93	930	430	NS	93	750	150	230	430	43

Weather Conditions during monitoring: Winds NW at 14 km/hr with 47% cloud cover and 10 mm of precipitation. Average air temperature during survey at 11.5°C.

- Notes:
- 1) LIMS Reference No: 33902
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates 734.5ft.
  - 5) There was no sample for the South Floodway Control location due to very high winds and the location was inaccessible

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