

**City of Winnipeg  
Water and Waste Department**

**2012 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : July 11, 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	26.9	26.9	26.4	26.0	27.4	28.0	26.5	26.2	25.9	25.8	25.4
Dissolved Oxygen	mg/L	6.8	7.1	6.9	6.9	6.0	6.5	6.3	6.6	6.7	6.9	7.8
Oxygen Saturation <sup>2</sup>	%	87	90	86	85	77	84	80	82	84	85	96
pH	units	8.40	8.20	8.41	8.39	8.20	8.27	8.24	8.32	8.40	8.41	8.39
Total Solids	mg/L	1010	988	988	1030	596	642	558	632	884	830	906
Total Suspended Solids	mg/L	113	165	181	206	63	53	48	55	119	69	134
Turbidity	n.t.u.	95	81	85	108	55	50	40	45	74	46	81
Total Organic Carbon	mg/L	14	19	14	17	11	10	11	14	17	17	19
Chlorophyll a	ug/L	33	33	19	23	11	19	23	42	25	28	37
Ammonia Nitrogen	mg/L N	<0.003	0.012	<0.003	<0.003	<0.003	<0.003	0.252	0.185	0.077	0.078	0.146
Nitrate Nitrogen	mg/L N	0.197	0.210	0.228	0.253	1.330	1.070	1.100	0.731	0.370	0.315	0.368
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<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	2.3	2.1	2.1	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.10	0.10	0.10	0.11	0.14	0.12	0.13	0.12	0.11	0.11	0.13
Total Phosphorus	mg/L P	0.40	0.40	0.40	0.40	0.30	0.40	<0.30	<0.30	0.30	0.30	0.40
Escherichia Coliform <sup>3</sup>	colonies/100 mL	43	43	43	75	43	75	38	43	150	93	23
Fecal Coliform <sup>3</sup>	colonies/100 mL	43	43	43	75	43	75	38	43	430	150	23

Weather Conditions during monitoring: Winds South at 23 km/hr with no cloud cover. Average air temperature during survey at 26.0°C.

- Notes:
- 1) LIMS Reference No: 33270
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates 734.3 ft.

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