

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 30, 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 ⁴	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	13.9	14.0	14.0	14.7	15.8	15.5	14.8	12.9	13.4	13.5	13.6
Dissolved Oxygen	mg/L	10.6	10.5	10.5	9.8	9.9	9.7	9.8	10.4	10.1	10.1	10.6
Oxygen Saturation ²	%	103	102	102	97	100	98	97	99	97	97	102
pH	units	8.34	8.39	8.38	8.41	8.42	8.37	8.35	8.35	8.38	8.31	8.29
Total Solids	mg/L	902	916	1820	940	688	708	706	690	800	782	766
Total Suspended Solids	mg/L	94	59	122	153	22	23	31	16	83	52	27
Turbidity	n.t.u.	59.2	34.3	76.8	93.0	15.6	20.4	13.9	12.3	58.0	42.8	23.3
Total Organic Carbon	mg/L	14	14	14	16	13	13	12	12	14	12	13
Chlorophyll a	ug/L	16	25	12	27	11	11	2	3	8	11	2
Ammonia Nitrogen	mg/L N	0.008	0.051	0.020	0.045	0.019	0.131	0.145	0.234	0.082	0.320	0.274
Nitrate Nitrogen	mg/L N	0.955	1.130	1.280	1.670	<0.003	0.049	0.022	0.042	1.110	1.090	0.442
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 ²	mg/L N	<2.0	2.1	2.3	2.7	<2.0	<2.0	<2.0	<2.0	2.1	2.1	<2.0
Soluble Phosphorus	mg/L P	0.11	0.12	0.13	0.14	0.15	0.06	0.06	0.06	0.11	0.13	0.11
Total Phosphorus	mg/L P	0.30	0.30	0.40	0.40	<0.30	<0.30	<0.30	<0.30	0.40	0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	93	150	23	93	23	9	43	4300	93	430	930
Fecal Coliform ³	colonies/100 mL	93	150	23	93	23	15	43	4300	93	930	2300

Weather Conditions during monitoring: Winds W at 4 km/hr with no cloud cover. Average air temperature during survey at 10.8°C

- Notes:
- 1) LIMS Reference No: 32841
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.7ft.

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