

**City of Winnipeg  
Water and Waste Department**

**2012 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : May 16, 2012		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	ST.ADOLPHE PIERRE DELORME BRIDGE	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	16.5	16.5	16.1	15.6	16.9	16.7	16.5	16.2	15.6	15.7	15.6
Dissolved Oxygen	mg/L	9.9	9.9	10.1	10.0	10.2	10.3	10.1	10.1	9.9	10.0	10.1
Oxygen Saturation <sup>2</sup>	%	102	102	103	101	106	106	104	103	100	101	102
pH	units	8.48	8.53	8.54	8.56	8.57	8.56	8.55	8.52	8.52	8.54	8.48
Total Solids	mg/L	2000	1950	2020	2070	1650	1460	1540	1540	1640	1610	1660
Total Suspended Solids	mg/L	114	164	131	142	78	43	43	39	71	48	63
Turbidity	n.t.u.	10.9	68.4	15.4	19.8	14.2	14.6	15.7	18.7	14.7	11.9	22.0
Total Organic Carbon	mg/L	27	14	15	17	13	12	14	13	15	16	16
Chlorophyll a	ug/L	9	9	11	8	14	12	11	8	7	9	7
Ammonia Nitrogen	mg/L N	<0.003	0.009	0.008	0.025	<0.003	0.213	0.106	0.117	0.021	0.219	0.256
Nitrate Nitrogen	mg/L N	0.285	0.291	0.300	0.320	0.051	0.089	0.140	0.210	0.256	0.254	0.324
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	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.09	0.09	0.10	0.10	0.05	0.06	0.07	0.08	0.08	0.11	0.12
Total Phosphorus	mg/L P	0.40	<0.30	0.40	0.40	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	23	15	43	43	<3	9	430	230	93	150	23
Fecal Coliform <sup>3</sup>	colonies/100 mL	23	15	43	43	<3	9	430	230	93	150	23

Weather Conditions during monitoring: Winds SE at 14 km/hr with 51% cloud cover. Average air temperature during survey at 12.5°C  
Red River elevation at South Floodway Control Gates was 734.3 ft.

Notes: 1) LIMS Reference No: 32737  
2) Calculated values  
3) Analyzed by contract laboratory.

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