

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 13, 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	18.9	18.9	18.4	18.2	19.8	19.9	19.3	19.5	18.9	19.3	18.9
Dissolved Oxygen	mg/L	9.4	9.2	9.4	9.1	8.3	8.4	8.3	8.3	8.7	8.7	9.3
Oxygen Saturation ²	%	102	100	100	97	91	93	90	91	94	95	101
pH	units	8.62	8.63	8.65	8.63	8.44	8.45	8.41	8.46	8.58	8.54	8.52
Total Solids	mg/L	956	932	956	938	582	516	564	518	736	716	722
Total Suspended Solids	mg/L	135	139	128	152	70	102	43	30	70	64	75
Turbidity	n.t.u.	71.1	62.1	70.8	97.5	49.8	41.8	33.4	26.6	43.8	47.8	40.6
Total Organic Carbon	mg/L	18	18	15	17	12	14	13	11	16	12	14
Chlorophyll a	ug/L	19	11	12	11	7	18	6	7	8	12	11
Ammonia Nitrogen	mg/L N	0.005	0.013	<0.003	<0.003	0.014	0.176	0.262	0.080	0.055	0.172	0.193
Nitrate Nitrogen	mg/L N	0.506	0.567	0.549	0.582	0.559	0.573	0.618	0.524	0.566	0.580	0.605
Total Kjeldahl Nitrogen	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nitrogen ²	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Soluble Phosphorus	mg/L P	0.09	0.11	0.10	0.10	0.10	0.11	0.16	0.12	0.10	0.11	0.12
Total Phosphorus	mg/L P	0.30	0.30	0.30	0.30	<0.30	<0.30	0.30	<0.30	<0.30	0.30	0.30
Escherichia Coliform ³	colonies/100 mL	93	43	93	230	43	23	23	230	430	930	43
Fecal Coliform ³	colonies/100 mL	93	43	93	430	43	23	23	230	430	1500	93

Weather Conditions during monitoring: Winds South at 25 km/hr with 90 % cloud cover. Average air temperature during survey at 18.0 C

- Notes:
- 1) LIMS Reference No: 33010
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.1 ft

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