

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 25, 2011		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	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	15.0	NS	15.1	14.6	NS	15.2	15.4	15.0	14.9	15.3
Dissolved Oxygen	mg/L	7.9	NS	8.0	7.9	NS	7.5	7.3	7.6	7.6	7.4
Oxygen Saturation ²	%	79	NS	80	78	NS	75	73	76	76	74
pH	units	8.27	NS	8.28	8.28	NS	8.15	8.24	8.31	8.24	8.14
Total Solids	mg/L	844	NS	832	828	NS	784	764	736	720	768
Total Suspended Solids	mg/L	162	NS	160	180	NS	96	116	92	116	126
Turbidity	n.t.u.	113	NS	101	115	NS	59.8	75.3	54.0	76.2	82.6
Total Organic Carbon	mg/L	14	NS	13	14	NS	13	13	13	14	13
Chlorophyll a	ug/L	21	NS	18	12	NS	16	18	14	16	18
Ammonia Nitrogen	mg/L N	0.020	NS	0.025	0.031	NS	0.124	0.080	0.119	0.126	0.110
Nitrate Nitrogen	mg/L N	0.178	NS	0.188	0.213	NS	0.717	0.533	0.699	0.566	0.610
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	NS	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.06	NS	0.06	0.11	NS	0.13	0.11	0.13	0.11	0.12
Total Phosphorus	mg/L P	0.30	NS	0.30	<0.30	NS	0.30	0.30	<0.30	0.30	0.30
Escherichia Coliform ³	colonies/100 mL	9	NS	93	43	NS	23	43	93	23	23
Fecal Coliform ³	colonies/100 mL	9	NS	93	93	NS	23	93	93	23	23

Weather Conditions during monitoring: Winds NNE at 30 km/hr with 3% cloud cover. Average air temperature during survey at 11.5°C.

- Notes:
- 1) LIMS Reference No: 29521
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 745.6 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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