

**City of Winnipeg
Water and Waste Department**

2011 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 8, 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	16.0	NS	16.0	15.5	NS	17.0	16.8	16.2	16.2	16.4
Dissolved Oxygen	mg/L	10.0	NS	10.1	10.3	NS	9.6	9.4	9.7	9.7	10.1
Oxygen Saturation ²	%	102	NS	103	104	NS	100	97	99	99	104
pH	units	8.17	NS	8.22	8.23	NS	8.20	8.19	8.23	8.26	8.27
Total Solids	mg/L	744	NS	796	784	NS	752	764	780	804	760
Total Suspended Solids	mg/L	178	NS	182	172	NS	152	148	154	148	140
Turbidity	n.t.u.	104	NS	113	116	NS	78.7	70.1	93.0	108	87.3
Total Organic Carbon	mg/L	15	NS	14	16	NS	14	14	15	14	14
Chlorophyll a	ug/L	11	NS	11	11	NS	9	9	4	<1	9
Ammonia Nitrogen	mg/L N	0.062	NS	0.093	0.055	NS	0.065	0.072	0.068	0.107	0.101
Nitrate Nitrogen	mg/L N	0.380	NS	0.389	0.407	NS	0.827	0.879	0.721	0.737	0.787
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	0.13	NS	0.13	0.12	NS	0.16	0.16	0.15	0.17	0.16
Total Phosphorus	mg/L P	0.30	NS	0.40	0.40	NS	0.40	0.40	0.40	0.40	0.40
Escherichia Coliform ³	colonies/100 mL	230	NS	93	230	NS	23	430	93	1500	150
Fecal Coliform ³	colonies/100 mL	230	NS	93	230	NS	23	430	230	2100	150

Weather Conditions during monitoring: Winds NNE at 33 km/hr with 58% cloud cover. Average air temperature during survey at 12.8°C.

- Notes:
- 1) LIMS Reference No: 29696
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 744.4 ft
 - 5) There are no samples at the West Perimeter Bridge or the South Floodway Control Gates due to construction.

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