

**City of Winnipeg
Water and Waste Department**

2012 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 25, 2012		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE ⁵	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	26.2	NS	25.6	25.3	26.6	27.6	26.5	25.5	25.2	25.2	25.1
Dissolved Oxygen	mg/L	7.3	NS	7.5	7.4	7.6	7.9	7.3	7.1	7.1	7.2	7.9
Oxygen Saturation ²	%	91	NS	93	91	96	102	91	88	87	89	97
pH	units	8.44	NS	8.45	8.45	8.60	8.40	8.48	8.45	8.44	8.44	8.62
Total Solids	mg/L	1080	NS	1080	1090	656	690	686	656	970	878	916
Total Suspended Solids	mg/L	168	NS	214	229	34	34	61	53	144	52	55
Turbidity	n.t.u.	84	NS	96	113	37	36	48	41	78	40	52
Total Organic Carbon	mg/L	18	NS	17	17	10	9	22	11	18	16	21
Chlorophyll a	ug/L	47	NS	39	36	18	64	18	22	27	29	30
Ammonia Nitrogen	mg/L N	0.012	NS	0.009	0.040	0.007	0.017	0.508	0.261	0.060	0.109	0.173
Nitrate Nitrogen	mg/L N	0.191	NS	0.207	0.230	0.359	0.336	0.406	0.523	0.294	0.282	0.362
Total Kjeldahl Nitrogen	mg/L N	<2.0	NS	<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	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.11	NS	0.11	0.12	0.09	0.10	0.16	0.14	0.12	0.13	0.14
Total Phosphorus	mg/L P	<0.30	NS	0.30	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	<3	NS	93	27	23	23	93	23	43	43	15
Fecal Coliform ³	colonies/100 mL	<3	NS	93	27	23	23	93	23	43	43	43

Weather Conditions during monitoring: Winds SW at 16 km/hr with 50% cloud cover. Average air temperature during survey at 23.6°C.

- Notes:
- 1) LIMS Reference No: 33411
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 734.0 ft.
 - 5] There was no sample for the West Perimeter Bridge due to the site being under construction and therefore inaccessible.

Report Compiled By: K. Wazny
Compliance Reporting Technician

Approved in LIMS By: S. Fletcher
Supervisor of Analytical Services

Date Approved: 27-Aug-12

File No: 040-14-09-03-00