

**City of Winnipeg
Water and Waste Department**

2013 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 30, 2013		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	16.6	16.5	16.5	16.5	17.1	16.7	16.6	16.1	16.0	16.0	16.0
Dissolved Oxygen	mg/L	8.3	8.3	8.4	8.6	7.8	7.6	7.7	7.7	7.7	7.8	7.9
Oxygen Saturation ²	%	86	86	86	88	81	79	80	79	78	79	80
pH	units	8.31	8.32	8.35	8.38	7.99	7.94	7.97	8.00	8.05	8.04	8.05
Total Solids	mg/L	1030	1140	982	1050	616	616	620	678	752	700	752
Total Suspended Solids	mg/L	308	360	292	316	160	160	144	156	212	204	268
Turbidity	n.t.u.	141	154	140	149	115	111	119	122	130	136	146
Total Organic Carbon	mg/L	17	20	17	15	14	13	15	12	13	13	13
Chlorophyll a	ug/L	10	10	10	13	3	3	3	3	7	5	5
Ammonia Nitrogen	mg/L N	<0.003	0.023	<0.003	0.008	0.070	0.037	0.076	0.072	0.048	0.075	0.081
Nitrate Nitrogen	mg/L N	0.156	0.119	0.098	0.104	0.861	0.836	0.863	0.853	0.751	0.809	0.811
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 ²	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	0.13	0.08	0.09	0.07	0.17	0.17	0.25	0.16	0.15	0.16	0.22
Total Phosphorus	mg/L P	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.50
Escherichia Coliform ³	MPN/100 mL	23	43	43	23	<3	3	4	23	23	43	23
Fecal Coliform ³	MPN/100 mL	23	43	93	43	<3	3	4	93	23	93	23

Weather Conditions during monitoring: Winds NW at 10 km/hr with 100 % cloud cover and 0 mm of precipitation. Average air temperature during survey at 18 C

- Notes:
- 1) LIMS Reference No: 36037
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 743.8
 - 5) Pierre Delorme Bridge was used as an alternate for the South Floodway Control due to construction.

Report Compiled By: H.Demchenko
Compliance Reporting Technician

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

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