

**City of Winnipeg  
Water and Waste Department**

**2008 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : May 15, 2008		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL <sup>4</sup>	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	12.7	13.0	13.1	12.7	12.6	12.8	12.6	12.3	12.0	11.8
Dissolved Oxygen	mg/L	11.6	11.5	11.6	11.8	10.1	10.0	10.0	10.4	10.4	10.9
Oxygen Saturation <sup>2</sup>	%	110	110	111	112	95	95	94	97	97	101
pH	units	8.83	8.85	8.87	8.94	8.18	8.18	8.18	8.35	8.43	8.34
Total Solids	mg/L	633	633	647	637	1060	953	837	713	683	660
Total Suspended Solids	mg/L	133	124	130	130	695	580	410	220	186	170
Turbidity <sup>5</sup>	n.t.u.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Organic Carbon	mg/L	11	10	10	11	8	9	10	8	10	9
Chlorophyll a	ug/L	37	44	49	39	7	7	18	21	11	18
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.010	0.049	0.086	0.056	0.215	0.206
Nitrate Nitrogen	mg/L N	0.016	0.094	0.024	0.018	1.104	1.008	0.746	0.565	0.548	0.500
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
Total Nitrogen <sup>2</sup>	mg/L N	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.05	0.07	0.04	0.05	0.08	0.08	0.08	0.14	0.09	0.10
Total Phosphorus	mg/L P	<0.30	<0.30	<0.30	<0.30	0.60	0.60	0.40	<0.30	<0.30	<0.30
Escherichia Coliform <sup>3</sup>	colonies/100 mL	36	23	4	36	<3	<3	23	23	23	23
Fecal Coliform <sup>3</sup>	colonies/100 mL	150	23	4	36	4	4	23	23	23	23

Weather Conditions during monitoring: Winds W at 16 km/hr with 30 % cloud cover. Average air temperature during survey at 16.1 °C

- Notes:
- 1) LIMS Reference No: 20028
  - 2) Calculated values
  - 3) Analyzed by contract laboratory.
  - 4) Red River elevation at South Floodway Control Gates: 735.0 ft
  - 5) There are no turbidity results due to a technician error.

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Date Approved: 05-Aug-08

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