

**City of Winnipeg
Water and Waste Department**

2009 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 15, 2009		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 ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	7.6	8.2	10.5	8.4	No Access	11.0	10.3	10.5	9.8	9.7
Dissolved Oxygen	mg/L	10.8	11.1	9.7	10.9	No Access	8.2	10.1	9.9	10.1	10.2
Oxygen Saturation ²	%	90	94	87	93	No Access	75	90	89	89	90
pH	units	8.31	8.46	8.28	8.44	No Access	10.00	8.15	8.04	8.04	8.13
Total Solids	mg/L	680	604	412	584	No Access	516	492	532	536	392
Total Suspended Solids	mg/L	266	160	49	182	No Access	138	116	112	124	118
Turbidity	n.t.u.	209	109	36	136	No Access	81	84	82	55	68
Total Organic Carbon	mg/L	15	14	21	14	No Access	11	12	28	24	22
Chlorophyll a	ug/L	45	66	39	61	No Access	14	11	11	11	11
Ammonia Nitrogen	mg/L N	0.641	0.337	0.128	0.311	No Access	0.049	0.042	0.074	0.070	0.078
Nitrate Nitrogen	mg/L N	3.504	2.884	0.499	2.232	No Access	0.170	0.169	0.169	0.183	0.198
Total Kjeldahl Nitrogen	mg/L N	4.0	4.0	<2.0	3.0	No Access	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	7.5	6.9	<2.0	5.2	No Access	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.31	0.22	0.16	0.18	No Access	0.16	0.16	0.16	0.17	0.16
Total Phosphorus	mg/L P	0.70	0.60	0.30	0.60	No Access	0.40	0.40	0.30	0.40	0.30
Escherichia Coliform ³	colonies/100 mL	790	49	13000	170	No Access	460	940	1100	1300	3100
Fecal Coliform ³	colonies/100 mL	1700	130	35000	220	No Access	460	940	1700	2300	3100

Weather Conditions during monitoring: Winds NW at 15 km/hr with 66 % cloud cover . Average air temperature during survey at -1°C

- Notes:
- 1) LIMS Reference No: 23026
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 744.4 ft
No access to South floodway; road barricaded.

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