

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 16, 2007		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY ⁴ CONTROL	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	15.0	14.5	15.2	14.6	17.1	16.8	16.0	15.6	14.6	15.1
Dissolved Oxygen	mg/L	10.4	10.5	10.2	10.5	8.7	8.9	8.7	8.7	9.2	10.5
Oxygen Saturation ²	%	104	103	102	104	91	92	89	88	91	105
pH	units	8.4	8.4	8.3	8.4	8.0	8.0	8.0	8.1	8.0	8.1
Total Solids	mg/L	777	793	760	763	913	940	977	940	933	1030
Total Suspended Solids	mg/L	172	166	148	173	324	351	404	346	351	466
Turbidity	n.t.u.	na	na	na	na	na	na	na	na	na	na
Total Organic Carbon	mg/L	na	na	na	na	na	na	na	na	na	na
Chlorophyll a	ug/L	51	42	7	36	11	37	12	18	23	32
Ammonia Nitrogen	mg/L N	0.06	<0.05	0.05	<0.05	0.05	0.08	0.08	0.12	0.16	0.15
Nitrate Nitrogen	mg/L N	0.37	0.35	0.40	0.37	0.96	1.00	1.06	0.88	1.03	1.18
Total Kheldahl Nitrogen	mg/L N	0.43	0.35	0.45	0.37	1.01	1.08	1.14	1.00	1.19	1.33
Total Nitrogen ²	mg/L N	0.80	0.70	0.85	0.74	1.97	2.08	2.20	1.88	2.22	2.51
Phosphate	mg/L N	0.08	0.09	0.09	0.08	0.14	0.16	0.15	0.13	0.14	0.14
Total Phosphorus	mg/L P	0.3	0.3	0.3	0.3	0.5	0.5	0.6	0.6	0.5	0.6
Eshcerichia Coliform ³	col./100 mL	70	23	130	22	11	49	49	79	170	140
Fecal Coliform ³	col./100 mL	70	23	130	22	11	49	49	79	170	140

Notes: 1) LIMS Reference No: 17010
 2) Calculated values
 3) Analyzed by contract laboratory and results reported as geometric means from duplicate samples.
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

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