

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ :		May 30, 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	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	17.7	18.3	18.3	18.7	19.2	19.5	18.8	19.0	17.5	18.3
Dissolved Oxygen	mg/L	10.6	10.6	10.5	10.6	9.4	9.4	9.6	9.7	9.8	10.7
Oxygen Saturation ²	%	112	113	112	114	102	103	104	105	103	115
pH	units	8.0	8.2	8.0	7.9	7.6	7.6	7.8	7.7	7.7	7.8
Total Solids	mg/L	757	730	727	740	830	863	913	947	947	990
Total Suspended Solids	mg/L	122	127	119	131	386	421	486	472	398	470
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	27	28	25	32	9	7	9	18	10	14
Ammonia Nitrogen	mg/L N	0.10	0.07	<0.05	0.07	0.10	0.11	0.08	0.06	0.09	0.08
Nitrate Nitrogen	mg/L N	0.36	0.35	0.45	0.36	1.51	1.48	1.48	1.36	1.30	1.23
Total Kheldahl Nitrogen	mg/L N	0.46	0.42	0.45	0.43	1.61	1.59	1.56	1.42	1.39	1.31
Total Nitrogen ²	mg/L N	0.82	0.77	0.90	0.79	3.12	3.07	3.04	2.78	2.69	2.54
Phosphate	mg/L N	0.11	0.10	0.12	0.10	0.20	0.22	0.21	0.20	0.20	0.20
Total Phosphorus	mg/L P	<0.3	<0.3	0.3	<0.3	0.6	0.7	0.7	0.6	0.7	0.6
Eshcerichia Coliform ³	col./100 mL	33	33	79	13	130	49	350	350	240	920
Fecal Coliform ³	col./100 mL	33	33	110	23	350	350	350	540	240	920

Notes: 1) LIMS Reference No: 17136
 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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