

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ :		June 15, 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	22.4	22.3	22.0	22.2	21.5	21.6	21.4	21.1	20.9	21.1	
Dissolved Oxygen	mg/L	8.1	8.1	7.9	8.2	7.1	7.2	7.4	7.6	7.5	8.5	
Oxygen Saturation ²	%	94	94	91	95	81	82	84	86	85	96	
pH	units	8.3	8.3	8.3	8.3	7.9	7.9	7.8	8.0	8.0	8.0	
Total Solids	mg/L	767	773	723	763	863	863	943	867	877	933	
Total Suspended Solids	mg/L	159	167	137	176	380	358	404	334	284	376	
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	26	21	23	23	10	4	9	7	14	12	
Ammonia Nitrogen	mg/L N	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.19	<0.05	
Nitrate Nitrogen	mg/L N	0.48	0.46	0.44	0.46	1.28	0.97	0.84	0.75	0.73	0.72	
Total Kheldahl Nitrogen	mg/L N	0.48	0.46	0.44	0.46	1.28	1.03	0.84	0.75	0.92	0.72	
Total Nitrogen ²	mg/L N	0.96	0.92	0.88	0.92	2.56	2.00	1.68	1.50	1.65	1.44	
Phosphate	mg/L N	0.11	0.11	0.12	0.11	0.17	0.16	0.16	0.18	0.19	0.16	
Total Phosphorus	mg/L P	0.4	0.4	0.4	0.4	0.6	1.8	0.6	0.6	0.6	0.3	
Eshcherichia Coliform ³	col./100 mL	920	79	9200	79	110	540	350	350	2400	240	
Fecal Coliform ³	col./100 mL	920	79	9200	79	110	1600	350	350	2400	240	

Notes: 1) LIMS Reference No: 17325
 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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