

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : September 12, 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	13.0	13.2	13.2	12.9	15.8	16.0	16.2	15.2	15.3	15.8
Dissolved Oxygen	mg/L	11.3	10.7	11.0	11.4	10.2	9.3	9.2	10.1	10.1	10.6
Oxygen Saturation ²	%	108	102	105	108	103	95	94	101	101	108
pH	units	8.48	8.59	8.66	8.61	8.65	8.47	8.51	8.50	8.58	8.52
Total Solids	mg/L	648	652	656	624	600	572	592	608	596	616
Total Suspended Solids	mg/L	99	111	88	103	40	34	33	55	45	45
Turbidity	n.t.u.	59	65	53	61	30	31	31	39	35	31
Total Organic Carbon	mg/L	12	14	13	14	11	11	12	14	16	13
Chlorophyll a	ug/L	76	75	85	82	25	23	30	58	67	82
Ammonia Nitrogen	mg/L N	<0.05	<0.05	<0.05	<0.05	<0.05	0.39	0.27	0.13	0.57	0.53
Nitrate Nitrogen	mg/L N	0.14	0.12	0.12	0.11	<0.03	0.03	0.10	0.11	0.14	0.26
Total Kheldahl Nitrogen	mg/L N	2	2	<2	2	2	2	3	3	3	3
Total Nitrogen ²	mg/L N	2	2	<2	2	2	2	3	3	3	3
Phosphate	mg/L N	0.13	0.14	0.14	0.12	0.13	0.18	0.17	0.14	0.18	0.20
Total Phosphorus	mg/L P	<0.3	<0.3	<0.3	0.5	<0.3	<0.3	<0.3	<0.3	<0.3	0.3
Eshcerichia Coliform ³	col./100 mL	140	79	79	49	<2	49	79	110	130	64
Fecal Coliform ³	col./100 mL	220	130	350	170	<2	240	79	540	350	220

Weather Conditions during monitoring: Winds S at 31 km/hr with 34 % cloud cover. Average air temperature of 31 Celcius. Precipitation: nil.

Notes: 1) LIMS Reference No: 18159
 2) Calculated values
 3) Analyzed by contract laboratory.
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

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