

**City of Winnipeg  
Water and Waste Department**

**2007 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : August 29, 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 <sup>4</sup> CONTROL	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	18.2	17.6	18.8	17.2	20.3	19.5	20.0	18.4	17.9	17.8
Dissolved Oxygen	mg/L	10.8	10.7	11.3	11.0	12.4	10.9	11.6	10.2	9.7	9.7
Oxygen Saturation <sup>2</sup>	%	115	113	122	115	138	120	129	109	103	103
pH	units	8.85	8.78	8.80	8.82	8.76	8.60	8.63	8.73	8.53	8.63
Total Solids	mg/L	664	704	700	704	644	644	632	648	656	688
Total Suspended Solids	mg/L	134	140	134	134	34	35	33	79	60	86
Turbidity	n.t.u.	66	66	72	69	23	23	23	42	30	10
Total Organic Carbon	mg/L	10	9	10	10	10	10	10	15	10	10
Chlorophyll a	ug/L	150	145	162	140	91	71	79	115	94	113
Ammonia Nitrogen	mg/L N	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	0.07	<0.05	0.89	0.22
Nitrate Nitrogen	mg/L N	<0.03	0.12	<0.03	0.03	<0.03	0.11	0.25	0.19	0.24	0.32
Total Kheldahl Nitrogen	mg/L N	2	<2	<2	2	<2	2	2	<2	3	2
Total Nitrogen <sup>2</sup>	mg/L N	2	<2	<2	2	<2	2	2	<2	3	2
Phosphate	mg/L N	0.13	0.15	0.12	0.13	0.15	0.20	0.20	0.16	0.24	0.20
Total Phosphorus	mg/L P	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.5	0.4
Eshcerichia Coliform <sup>3</sup>	col./100 mL	33	13	170	33	4	46	58	220	2,600	79
Fecal Coliform <sup>3</sup>	col./100 mL	49	13	820	49	4	70	58	540	92,000	1,600

Weather Conditions during monitoring: Daytime average temperarute of 22.7 Celcius.

Notes: 1) LIMS Reference No: 18048  
 2) Calculated values  
 3) Analyzed by contract laboratory.  
 All other parameters analysed by the Analytical Services Branch of Environmental Standards Division.

File No: 040-14-09-03-00