

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : October 11, 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	7.4	7.6	7.6	7.9	9.2	9.3	10.0	9.3	9.6	10.0
Dissolved Oxygen	mg/L	12.5	12.4	12.2	12.7	12.4	12.0	10.9	11.2	10.6	11.8
Oxygen Saturation ²	%	104	104	102	107	108	105	97	98	93	105
pH	units	8.28	8.27	8.55	8.26	8.63	8.65	8.58	8.55	8.43	8.42
Total Solids	mg/L	717	843	687	750	667	683	640	637	630	620
Total Suspended Solids	mg/L	76	61	31	87	26	21	23	24	23	14
Turbidity	n.t.u.	43	36	22	43	22	17	22	21	21	13
Total Organic Carbon	mg/L	8	11	7	8	9	9	9	9	8	9
Chlorophyll a	ug/L	19	19	19	22	90	124	44	31	31	34
Ammonia Nitrogen	mg/L N	0.21	0.06	0.19	<0.05	0.13	0.31	0.30	0.28	1.02	0.94
Nitrate Nitrogen	mg/L N	0.49	0.39	0.47	0.44	<0.03	0.06	0.08	0.25	0.29	0.43
Total Kheldahl Nitrogen	mg/L N	3	3	3	4	3	4	4	3	5	4
Total Nitrogen ²	mg/L N	3	3	3	4	3	4	4	3	5	4
Phosphate	mg/L N	0.24	0.23	0.21	0.23	0.14	0.15	0.16	0.19	0.26	0.27
Total Phosphorus	mg/L P	0.6	0.3	0.3	0.3	<0.3	<0.3	0.3	<0.3	0.4	0.4
Eshcerichia Coliform ³	col./100 mL	330	170	140	490	790	170	230	490	4,900	1,400
Fecal Coliform ³	col./100 mL	330	170	680	490	1,300	490	490	1,100	7,900	2,100

Weather Conditions during monitoring: Winds SE at 22 km/hr with 100 % cloud cover. Average air temperature of 22 Celcius. Precipitation: nil.

Notes: 1) LIMS Reference No: 18384
 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