

**City of Winnipeg
Water and Waste Department**

2007 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 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	21.9	22.1	22.0	22.1	22.7	22.6	23.0	22.6	22.8	22.9
Dissolved Oxygen	mg/L	8.4	8.4	8.3	8.4	6.8	7.1	6.8	6.9	7.1	7.9
Oxygen Saturation ²	%	97	97	96	97	80	83	80	81	83	93
pH	units	8.21	8.21	8.19	8.23	7.80	7.81	7.82	7.86	7.85	7.94
Total Solids	mg/L	920	933	993	930	690	687	687	750	750	720
Total Suspended Solids	mg/L	275	198	345	124	142	134	141	175	201	165
Turbidity	n.t.u.	131	147	172	138	100	92	89	116	105	101
Total Organic Carbon	mg/L	12	13	12	12	15	16	15	14	15	15
Chlorophyll a	ug/L	40	37	47	42	11	11	11	16	16	23
Ammonia Nitrogen	mg/L N	0.08	0.07	0.16	0.09	0.06	0.08	0.09	0.09	0.10	0.05
Nitrate Nitrogen	mg/L N	0.26	0.27	0.28	0.27	0.35	0.37	0.36	0.38	0.41	0.39
Total Kheldahl Nitrogen	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nitrogen ²	mg/L N	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Phosphate	mg/L N	0.16	0.12	0.15	0.16	0.25	0.25	0.24	0.25	0.24	0.22
Total Phosphorus	mg/L P	0.4	<0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	<0.3
Eshcerichia Coliform ³	col./100 mL	110	240	240	130	49	23	33	540	920	350
Fecal Coliform ³	col./100 mL	170	240	240	130	79	33	33	540	1600	540

Weather Conditions during monitoring: Wind NW at 30 km/hr with 60% cloud cover and light drizzle. Average temperature of 19 Celcius during survey.

- Notes:
- 1) LIMS Reference No: 17577
 - 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