

**City of Winnipeg
Water and Waste Department**

2008 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 22, 2008		Assiniboine River Sampling Locations				Red River Sampling Locations					
Parameter	Unit	ASSINIBOINE PARK FOOT BRIDGE	HEADINGLY BRIDGE	MAIN STREET BRIDGE	WEST PERIMETER BRIDGE	SOUTH FLOODWAY CONTROL ⁴	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	° C	24.2	23.7	22.9	23.6	23.9	23.8	23.5	23.3	23.2	22.8
Dissolved Oxygen	mg/L	8.4	8.1	6.9	8.4	7.3	7.2	7.1	7.1	7.1	8.0
Oxygen Saturation ²	%	101	97	81	100	87	86	84	84	84	94
pH	units	8.78	8.72	8.63	8.76	8.39	8.36	8.30	8.32	8.29	8.28
Total Solids	mg/L	723	737	577	730	740	597	567	597	567	503
Total Suspended Solids	mg/L	232	247	104	242	232	95	90	89	87	86
Turbidity	n.t.u.	155	142	69	143	183	84	108	81	69	67
Total Organic Carbon	mg/L	13	12	13	13	12	13	13	12	12	12
Chlorophyll a	ug/L	91	87	75	87	9	14	12	33	44	65
Ammonia Nitrogen	mg/L N	<0.003	0.107	<0.003	0.057	<0.003	0.067	0.098	0.037	0.197	0.241
Nitrate Nitrogen	mg/L N	0.016	0.023	0.017	0.024	0.340	0.302	0.348	0.271	0.302	0.482
Total Kjeldahl Nitrogen	mg/L N	2.0	2.0	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0
Total Nitrogen ²	mg/L N	2.0	2.0	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5
Soluble Phosphorus	mg/L P	0.02	0.02	0.01	0.02	0.16	0.16	0.21	0.15	0.14	0.16
Total Phosphorus	mg/L P	0.30	0.30	<0.30	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Escherichia Coliform ³	colonies/100 mL	17	8	90	14	29	50	23	50	342	220
Fecal Coliform ³	colonies/100 mL	300	23	500	81	358	130	23	130	1400	1300

Weather Conditions during monitoring: Winds S at 41 km/hr with 27% cloud cover. Average air temperature during survey at 26°C

- Notes:
- 1) LIMS Reference No: 20958
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates: 734.4 ft

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Date Approved: 03-Sep-08

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