



2019 RIVERS SURVEY MONITORING REPORT

Survey Date: October 3, 2019		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE (R1)	WEST PERIMETER BRIDGE (R2)	ASSINIBOINE PARK FOOT BRIDGE (R3)	MAIN STREET BRIDGE (R4)	SOUTH FLOODWAY CONTROL (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Sample Number		245951	245953	245950	245952	245954	245960	245955	245958	245959	245957	245956
Temperature	° C	8.4	8.4	8.0	8.3	10.9	10.7	10.5	11.1	10.9	10.8	11.0
Dissolved Oxygen	mg/L	11.2	11.3	11.9	10.9	8.7	8.7	8.7	8.6	8.6	8.8	9.7
Oxygen Saturation	%	95	96	95	92	79	78	78	78	77	79	88
Biochemical Oxygen Demand	mg/L	NR	NR	NR	NR	NR	<2	<2	NR	NR	NR	NR
pH	units	7.73	7.82	7.70	7.72	7.69	7.71	7.80	7.58	7.64	7.52	7.58
Total Solids	mg/L	924	976	916	750	678	580	614	632	644	652	676
Total Suspended Solids	mg/L	260	302	277	120	140	96	140	150	174	102	230
Turbidity	n.t.u.	145	109	173	82	61	93	96	112	69	121	55
Total Organic Carbon	mg/L	16.4	16.5	16.5	15.8	16.1	17.0	16.3	17.2	16.8	16.8	17.1
Chlorophyll a	ug/L	45.4	40.1	44.1	40.1	2.7	2.7	1.3	2.7	6.7	5.3	4.0
Ammonia Nitrogen	mg/L N	0.023	0.024	0.041	0.056	0.019	0.017	0.029	0.041	0.062	0.058	0.090
Nitrate Nitrogen	mg/L N	0.435	0.430	0.416	0.404	0.316	0.318	0.311	0.309	0.314	0.339	0.348
Total Nitrogen	mg/L N	1.6	1.7	1.7	1.6	1.3	1.2	1.3	1.3	1.3	1.4	1.5
Soluble Phosphorus	mg/L P	0.33	0.39	0.37	0.36	0.46	0.27	0.30	0.40	0.49	0.44	0.45
Total Phosphorus	mg/L P	0.51	0.53	0.55	0.43	0.44	0.54	0.46	0.43	0.47	0.48	0.54
Escherichia Coliform	MPN/100 mL	230	330	280	450	100	180	140	220	160	690	240
Fecal Coliform	MPN/100 mL	260	380	380	430	150	NA	NA	290	290	930	350

Notes: NS - No Sample NA - Not Analyzed NR - No Result

Red River elevation at South Floodway control gates: 747 ft

Weather conditions during monitoring:

Wind Direction: NW

Wind Speed: 1 km/h

Cloud Coverage: 100%

Precipitation: 0.1 mm

Air Temperature: 8°C

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