



2019 RIVERS SURVEY MONITORING REPORT

Survey Date: May 2, 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		199918	199920	199917	199919	200866	199927	199922	199925	199926	199924	199923
Temperature	° C	9.0	9.0	8.6	9.1	9.6	9.5	9.1	8.4	8.4	8.2	8.5
Dissolved Oxygen	mg/L	11.6	11.8	11.7	10.9	9.8	10.0	10.1	10.1	10.2	10.3	10.1
Oxygen Saturation	%	100	102	100	102	86	88	88	86	87	87	87
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.52	8.45	8.58	8.44	7.77	7.51	7.75	7.59	7.91	7.92	7.92
Total Solids	mg/L	708	708	710	648	440	452	458	486	482	494	514
Total Suspended Solids	mg/L	109	120	126	52	76	93	102	119	120	134	144
Turbidity	n.t.u.	64	68	75	38	60	63	78	71	82	90	88
Total Organic Carbon	mg/L	11.0	11.6	11.2	11.7	12.3	11.5	11.5	11.6	12.1	11.2	11.2
Chlorophyll a	ug/L	44.1	38.7	18.7	50.7	6.7	6.7	13.4	17.4	13.4	16.0	14.7
Ammonia Nitrogen	mg/L N	0.037	0.010	<0.003	<0.003	0.009	0.065	0.022	0.018	0.027	0.055	0.085
Nitrate Nitrogen	mg/L N	0.058	0.061	0.042	<0.003	0.340	0.350	0.344	0.343	0.329	0.333	0.338
Total Nitrogen	mg/L N	0.5	0.5	0.5	0.4	0.9	0.8	0.8	0.9	0.8	0.9	0.9
Soluble Phosphorus	mg/L P	0.17	0.22	0.16	0.13	0.25	0.29	0.30	0.23	0.24	0.23	0.23
Total Phosphorus	mg/L P	0.24	0.25	0.25	0.22	0.30	0.31	0.34	0.34	0.34	0.33	0.34
Escherichia Coliform	MPN/100 mL	10	10	20	80	<10	<10	20	<10	<10	<10	<10
Fecal Coliform	MPN/100 mL	10	<10	<10	60	20	<10	30	<10	<10	40	10

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

Red River elevation at South Floodway control gates: 727.6 ft

Weather conditions during monitoring:

Wind Direction: N

Wind Speed: 5.8 km/h

Cloud Coverage: 40%

Precipitation: 0.4 mm

Air Temperature: 11°C

Compiled By: A. Gordon
Compliance Reporting Technician

Approved By: C. Diduck
Analytical Services Branch Head

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*Pierre Delorme Bridge was used as an alternate location for the South Floodway Control