



2020 RIVERS SURVEY MONITORING REPORT

Survey Date: May 9, 2020		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		297623	297627	297618	297625	297631	297637	297632	297635	297636	297634	297633
Temperature	° C	10.3	10.8	10.4	10.4	10.3	11.0	10.9	10.7	10.8	10.7	10.8
Dissolved Oxygen	mg/L	10.6	10.6	10.6	10.5	10.2	9.4	9.4	9.4	9.5	9.7	9.6
Oxygen Saturation	%	95	96	95	94	91	85	85	85	86	87	89
Biochemical Oxygen Demand	mg/L	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
pH	units	7.77	7.79	7.82	7.81	7.65	7.56	7.58	7.53	7.54	7.55	7.54
Total Solids	mg/L	692	694	664	648	592	578	590	582	588	590	708
Total Suspended Solids	mg/L	176	192	195	144	36	38	38	42	57	62	192
Turbidity	n.t.u.	104	110	108	93	27	27	28	30	38	39	85
Total Organic Carbon	mg/L	12.5	11.2	11.2	12.6	11.6	11.6	11.8	11.9	11.7	11.7	13.9
Chlorophyll a	ug/L	20.0	20.0	18.7	20.0	9.3	12.0	12.0	12.0	12.7	12.0	13.4
Ammonia Nitrogen	mg/L N	0.311	0.015	0.016	0.020	0.015	0.010	0.022	0.034	0.029	0.115	0.099
Nitrate Nitrogen	mg/L N	0.204	0.207	0.210	0.203	0.155	0.172	0.176	0.172	0.169	0.174	0.198
Total Nitrogen	mg/L N	0.4	<0.3	0.7	0.4	<0.3	<0.3	0.3	0.3	0.3	0.3	0.5
Soluble Phosphorus	mg/L P	0.15	0.12	0.15	0.14	0.24	0.17	0.15	0.16	0.17	0.14	0.14
Total Phosphorus	mg/L P	0.33	0.13	0.15	0.15	0.20	0.20	0.18	0.19	0.21	0.15	0.15
Escherichia Coliform	MPN/100 mL	<10	10	40	<10	40	<10	20	<10	<10	<10	<10
Fecal Coliform	MPN/100 mL	<10	<10	50	20	30	<10	30	20	30	20	<10

Notes: ns - no sample na - not analyzed nr - no result

Red River elevation at South Floodway control gates: 742 ft

Weather conditions during monitoring:

Wind Direction: North (N)

Wind Speed: 20 km/h

Cloud Coverage: 10%

Precipitation: 0 mm

Air Temperature: 4°C

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