



## 2020 RIVERS SURVEY MONITORING REPORT

Survey Date: May 23, 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		<b>301123</b>	<b>301127</b>	<b>301118</b>	<b>301125</b>	<b>301129</b>	<b>301137</b>	<b>301132</b>	<b>301135</b>	<b>301136</b>	<b>301134</b>	<b>301133</b>
Temperature	° C	19.7	19.9	19.5	19.0	18.8	18.6	19.2	18.0	18.0	17.9	17.8
Dissolved Oxygen	mg/L	9.1	9.3	9.2	8.9	8.7	8.7	8.7	8.5	8.5	8.5	7.8
Oxygen Saturation	%	100	102	100	96	93	92	94	90	90	90	95
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.09	8.14	8.27	8.10	7.96	7.80	7.86	7.85	7.93	7.89	7.75
Total Solids	mg/L	922	850	806	864	1,040	1,040	942	1,050	988	1,020	1,020
Total Suspended Solids	mg/L	161	128	169	196	120	118	113	95	139	100	149
Turbidity	n.t.u.	80	83	82	94	72	71	70	71	79	74	88
Total Organic Carbon	mg/L	12.1	11.8	11.7	12.6	12.7	12.3	13.1	12.2	12.4	12.4	12.6
Chlorophyll a	ug/L	37.4	42.7	40.1	42.7	8.0	8.0	9.3	6.7	14.7	12.0	9.3
Ammonia Nitrogen	mg/L N	0.007	0.037	<0.003	0.008	0.012	0.019	0.046	0.083	0.053	0.153	0.168
Nitrate Nitrogen	mg/L N	<0.003	0.006	<0.003	0.008	0.286	0.291	0.292	0.298	0.232	0.244	0.281
Total Nitrogen	mg/L N	0.5	0.4	0.5	0.5	0.9	0.8	0.9	0.9	0.8	0.9	1.0
Soluble Phosphorus	mg/L P	0.07	0.08	0.11	0.08	0.12	0.09	0.12	0.11	0.12	0.11	0.12
Total Phosphorus	mg/L P	0.13	0.14	0.13	0.14	0.14	0.13	0.13	0.12	0.13	0.14	0.14
Escherichia Coliform	MPN/100 mL	<10	<10	<10	30	<10	10	<10	10	40	30	<10
Fecal Coliform	MPN/100 mL	20	<10	60	60	<10	10	<10	10	30	50	130

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

Red River elevation at South Floodway control gates: 735.9 ft

Weather conditions during monitoring:

Wind Direction: South (S)

Wind Speed: 24 km/h

Cloud Coverage: 20%

Precipitation: 1.9 mm

Air Temperature: 20°C

Compiled By: H. Demchenko  
Compliance Reporting Technician

Approved By: B. Bradford  
Analytical Services Branch Head

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