



**2020 RIVERS SURVEY MONITORING REPORT**

Survey Date: July 16, 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>315321</b>	<b>315327</b>	<b>315316</b>	<b>315325</b>	<b>315329</b>	<b>315336</b>	<b>315331</b>	<b>315334</b>	<b>315335</b>	<b>315333</b>	<b>315332</b>
Temperature	° C	23.1	23.1	22.8	22.6	23.7	24.5	24.1	23.6	23.3	23.0	23.2
Dissolved Oxygen	mg/L	7.6	7.5	7.6	7.5	5.8	5.8	6.2	6.1	6.0	6.3	6.9
Oxygen Saturation	%	88	88	88	87	69	70	74	72	71	73	80
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	>10	>11	<4	<4	<4	<4
pH	units	7.65	7.76	7.76	7.77	7.33	7.64	7.59	7.43	7.43	7.36	7.53
Total Solids	mg/L	856	836	834	832	946	918	864	874	876	852	842
Total Suspended Solids	mg/L	248	236	190	218	130	138	142	116	156	130	120
Turbidity	n.t.u.	147	141	142	134	109	97	99	93	101	89	89
Total Organic Carbon	mg/L	21.4	19.9	22.4	19.5	19.7	21.1	21.4	28.1	20.2	20.7	18.6
Chlorophyll a	ug/L	9.8	9.3	8.0	6.7	4.0	4.0	4.0	4.0	5.3	4.0	4.0
Ammonia Nitrogen	mg/L N	0.009	0.037	0.010	0.056	0.017	0.008	0.019	0.028	0.025	0.094	0.044
Nitrate Nitrogen	mg/L N	0.461	0.418	0.509	0.493	0.551	0.568	0.544	0.583	0.391	0.526	0.567
Total Nitrogen	mg/L N	1.6	1.6	1.6	1.7	1.7	1.6	1.7	1.6	1.6	1.7	1.7
Soluble Phosphorus	mg/L P	nr	0.48	nr	nr	nr	nr	nr	nr	0.33	0.33	0.31
Total Phosphorus	mg/L P	0.49	0.45	0.48	0.42	0.40	0.37	0.42	0.42	0.38	0.40	0.38
Escherichia Coliform	MPN/100 mL	130	90	90	60	20	40	30	80	120	60	70
Fecal Coliform	MPN/100 mL	50	120	140	70	30	50	50	60	60	80	40

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

Red River elevation at South Floodway control gates: 738.6 ft

Weather conditions during monitoring:

Wind Direction: West (W)

Wind Speed: 19 km/h

Cloud Coverage: 5%

Precipitation: 0 mm

Air Temperature: 20°C

Compiled By: H. Demchenko  
Compliance Reporting Technician

Approved By: B. Bradford  
Analytical Services Branch Head

Date Compiled: 16-Sep-20