



2020 RIVERS SURVEY MONITORING REPORT

Survey Date: June 20, 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		308271	308277	308266	308275	308279	308286	308281	308284	308285	308283	308282
Temperature	° C	20.5	20.4	20.4	21.2	21.1	21.1	21.4	21.2	20.9	20.6	20.5
Dissolved Oxygen	mg/L	9.7	9.6	9.4	8.6	6.5	6.7	6.7	6.3	6.5	6.4	8.1
Oxygen Saturation	%	108	107	102	97	73	76	76	70	73	71	90
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	5	5	5	5	5	5	>7
pH	units	8.16	8.26	8.28	8.24	7.51	7.49	7.60	7.52	7.60	7.49	7.59
Total Solids	mg/L	948	828	834	810	640	652	738	742	634	626	704
Total Suspended Solids	mg/L	145	132	113	44	68	74	78	89	84	86	157
Turbidity	n.t.u.	77	73	70	28	75	50	50	54	52	51	46
Total Organic Carbon	mg/L	14.0	13.4	18.3	12.8	13.0	18.3	17.6	17.1	22.0	17.7	17.9
Chlorophyll a	ug/L	45.4	37.4	34.7	28.0	3.3	3.3	4.0	2.7	4.7	4.7	2.7
Ammonia Nitrogen	mg/L N	0.019	0.011	0.014	0.009	0.049	0.021	0.049	0.050	0.039	0.087	0.115
Nitrate Nitrogen	mg/L N	<0.003	0.004	<0.003	<0.003	1.42	1.38	1.43	1.41	1.31	1.31	1.21
Total Nitrogen	mg/L N	1.0	1.1	2.8	1.0	1.1	2.7	2.9	2.7	2.9	2.8	2.9
Soluble Phosphorus	mg/L P	0.05	0.04	0.05	0.05	0.20	0.22	0.24	0.21	0.20	0.22	0.20
Total Phosphorus	mg/L P	0.27	0.21	0.22	0.14	0.26	0.24	0.28	0.28	0.28	0.29	0.31
Escherichia Coliform	MPN/100 mL	10	30	40	60	10	50	50	50	50	40	40
Fecal Coliform	MPN/100 mL	10	30	40	170	50	20	50	50	50	60	50

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

Red River elevation at South Floodway control gates: 739 ft

Weather conditions during monitoring:

Wind Direction: South West (SW)

Wind Speed: 24 km/h

Cloud Coverage: 95%

Precipitation: 11 mm

Air Temperature: 20°C

Compiled By: H. Demchenko
Compliance Reporting Technician

Approved By: B. Bradford
Analytical Services Branch Head

Date Compiled: 22-Jul-20