



Rivers Monitoring Report
Survey Date: June 13, 2024

		Assiniboine River				Red River						
Parameter	Unit	Headingley Bridge	West Perimeter Bridge	Assiniboine Park Foot Bridge	Main Street Bridge	South Floodway Control	South Perimeter Bridge	Fort Garry Bridge	Norwood Bridge	Redwood Bridge	North Perimeter Bridge	Lockport Bridge
Sample Number		667809	667811	667808	667810	667812	667818	667813	667816	667817	667815	667814
Temperature	° C	18.8	19.1	18.9	18.2	19.2	19.2	19.7	18.7	18.6	18.0	18.4
pH	units	8.49	8.42	8.45	8.38	8.22	8.23	7.88	8.01	8.28	8.00	8.20
Dissolved Oxygen	mg/L	9.5	9.7	9.5	9.3	7.7	7.7	7.7	8.0	7.9	7.9	8.6
Oxygen Saturation	%	101	104	101	97	82	83	83	84	84	83	91
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total Solids	mg/L	790	766	na	764	1,030	1,060	1,050	1,090	1,050	1,070	1,100
Total Suspended Solids	mg/L	133	129	na	118	171	170	186	238	224	253	278
Turbidity	n.t.u.	60	62	62	60	117	119	132	153	138	146	163
Chlorophyll a	ug/L	37.4	41.4	42.7	41.4	3.3	5.3	4.0	5.3	9.3	10.7	9.3
Total Organic Carbon	mg/L	14.1	14.1	14.3	13.4	13.6	13.2	13.7	13.4	13.6	13.6	14.7
Total Nitrogen	mg/L N	0.5	0.4	0.4	0.4	3.2	3.0	3.2	3.1	2.6	2.7	2.7
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.038	0.093
Nitrate Nitrogen	mg/L N	0.017	0.006	<0.004	0.027	2.220	2.230	2.220	2.250	1.830	1.910	1.890
Soluble Phosphorus	mg/L P	0.07	0.07	0.08	0.08	0.18	0.18	0.18	0.18	0.16	0.16	0.17
Total Phosphorus	mg/L P	0.20	0.25	0.23	0.20	0.31	0.31	0.31	0.31	0.30	0.29	0.37
Escherichia coli	MPN/100 mL	20	<10	<10	<10	30	20	<10	20	40	20	<10
Fecal Coliform	MPN/100 mL	<10	10	10	<10	10	40	<10	10	30	10	<10

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

Weather conditions during monitoring:

Wind Direction: North (N)

Wind Speed: 2 km/h

Cloud Coverage: 90 %

Precipitation: 1.1 mm

Air Temperature: 19 °C

Report Date: July 25, 2024