



City of Winnipeg  
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: June 22, 2023		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		581188	581190	581187	581189	581191	581198	581193	581196	581197	581195	581194
Temperature	°C	22.9	22.8	21.8	22.6	23.2	22.6	22.6	22.5	22.9	23.0	22.8
pH	units	8.38	8.39	8.39	8.37	8.27	8.18	8.23	8.21	8.23	8.24	8.22
Dissolved Oxygen	mg/L	8.0	8.0	8.2	7.9	7.5	7.6	7.5	7.3	7.5	7.4	8.4
Oxygen Saturation	%	93	93	93	91	88	87	86	84	87	86	98
Biochemical Oxygen Demand	mg/L	3	<3	3	<3	<3	<3	3	3	<3	<3	<3
Total Solids	mg/L	1,140	1,150	1,160	1,170	848	848	718	834	890	810	834
Total Suspended Solids	mg/L	360	460	405	390	132	116	92	150	142	64	90
Turbidity	n.t.u.	149	178	56	114	81	77	59	89	84	40	54
Chlorophyll a	ug/L	12.7	9.3	12.0	8.0	nr	2.7	3.3	2.7	4.7	nr	2.7
Total Organic Carbon	mg/L	13.4	13.6	13.3	13.7	10.7	11.1	10.9	12.5	12.2	11.9	12.5
Total Nitrogen	mg/L N	0.4	0.5	1.8	0.7	1.2	0.8	0.8	1.2	1.9	0.8	1.1
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.009	<0.003	0.023	0.004	0.003	0.011	<0.003	0.203
Nitrate Nitrogen	mg/L N	0.436	0.440	0.441	0.459	0.841	0.825	0.860	0.855	0.705	0.727	0.771
Soluble Phosphorus	mg/L P	0.16	0.16	0.18	0.18	0.24	0.26	0.24	0.23	0.22	0.23	0.24
Total Phosphorus	mg/L P	0.37	0.37	0.37	0.40	0.32	0.32	0.32	0.35	0.30	0.29	0.33
Escherichia coli	MPN/100 mL	80	60	80	<10	<10	<10	110	10	120	<10	40
Fecal Coliform	MPN/100 mL	120	20	100	<10	<10	10	260	30	100	<10	40

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

Weather conditions during monitoring:

Wind Direction: North East (NE)  
 Wind Speed: 19 km/h  
 Cloud Coverage: 100 %  
 Precipitation: 0.6 mm  
 Air Temperature: 15 °C

Report Date:

December 6, 2023