



City of Winnipeg
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: July 6, 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		584971	584973	584970	584972	584974	584980	584975	584978	584979	584977	584976
Temperature	°C	21.8	21.9	21.6	21.5	23.1	23.2	23.0	22.4	22.1	21.8	21.8
pH	units	8.52	8.51	8.54	8.49	8.14	8.14	8.15	8.12	8.33	8.26	8.24
Dissolved Oxygen	mg/L	8.5	8.6	8.4	8.2	7.0	7.0	7.1	7.0	7.4	7.4	8.5
Oxygen Saturation	%	97	98	95	93	82	82	82	80	85	84	97
Biochemical Oxygen Demand	mg/L	<3	<3	3	3	<3	<3	<3	<3	<3	<3	<3
Total Solids	mg/L	1,080	1,070	1,150	1,130	900	888	840	852	944	814	804
Total Suspended Solids	mg/L	119	209	na	196	234	127	130	172	200	73	79
Turbidity	n.t.u.	80	108	88	111	151	124	104	142	125	52	58
Chlorophyll a	ug/L	28.0	30.7	32.0	21.4	5.3	4.0	4.0	2.7	8.0	6.7	4.0
Total Organic Carbon	mg/L	12.4	12.3	11.8	12.6	9.7	9.8	9.4	10.3	9.9	9.9	9.9
Total Nitrogen	mg/L N	1.4	1.5	1.4	1.5	2.0	2.1	2.0	2.0	1.8	2.0	1.9
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.020	0.013	<0.003	<0.003	0.008	<0.003	0.004	0.164	0.161
Nitrate Nitrogen	mg/L N	na	na	na	na	na	na	na	na	na	na	na
Soluble Phosphorus	mg/L P	0.13	0.11	0.11	0.12	0.25	0.24	0.24	0.25	0.22	0.25	0.23
Total Phosphorus	mg/L P	0.33	0.24	0.31	0.30	0.36	0.33	0.34	0.34	0.33	0.29	0.29
Escherichia coli	MPN/100 mL	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
Fecal Coliform	MPN/100 mL	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr

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

Weather conditions during monitoring:

Wind Direction: South (S)
 Wind Speed: 19 km/h
 Cloud Coverage: 20 %
 Precipitation: 1.0 mm
 Air Temperature: 21 °C

Report Date:

November 13, 2023