



City of Winnipeg
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: May 25, 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		574003	574005	574002	574004	574006	574013	574008	574011	574012	574010	574009
Temperature	°C	17.1	16.9	16.5	16.2	18.5	18.6	18.5	17.6	17.0	16.5	16.7
pH	units	8.30	8.18	8.21	8.19	7.90	7.91	7.94	7.93	7.97	7.96	7.95
Dissolved Oxygen	mg/L	9.1	9.1	9.0	9.1	7.7	7.8	7.8	7.8	8.0	7.9	8.7
Oxygen Saturation	%	94	94	93	92	82	83	83	82	83	81	89
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Total Solids	mg/L	1,140	1,250	1,210	1,260	730	686	690	690	776	788	808
Total Suspended Solids	mg/L	398	532	484	432	88	90	100	98	172	166	178
Turbidity	n.t.u.	190	169	173	158	63	56	55	61	85	80	83
Chlorophyll a	ug/L	7.8	14.7	14.7	13.4	8.0	6.7	7.3	4.5	4.7	7.3	6.7
Total Organic Carbon	mg/L	13.3	14.0	13.0	15.7	14.3	13.3	13.4	13.8	13.7	13.6	13.6
Total Nitrogen	mg/L N	1.2	1.3	1.3	1.5	1.9	1.7	1.7	1.6	1.7	1.5	1.8
Ammonia Nitrogen	mg/L N	0.003	0.004	<0.003	0.054	0.077	0.026	0.026	0.029	0.026	0.111	0.127
Nitrate Nitrogen	mg/L N	0.195	0.216	0.234	0.311	0.666	0.632	0.668	0.706	0.570	0.587	0.649
Soluble Phosphorus	mg/L P	0.10	0.10	0.11	0.11	0.19	0.18	0.18	0.20	0.18	0.17	0.18
Total Phosphorus	mg/L P	0.34	0.35	0.37	0.42	0.24	0.24	0.26	0.28	0.23	0.30	0.30
Escherichia coli	MPN/100 mL	30	10	20	60	<10	<10	<10	<10	20	<10	<10
Fecal Coliform	MPN/100 mL	10	40	20	20	10	<10	20	30	30	10	10

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

Weather conditions during monitoring:

Wind Direction: South (S)
 Wind Speed: 33 km/h
 Cloud Coverage: 0 %
 Precipitation: <0.1 mm
 Air Temperature: 21 °C

Report Date:

July 17, 2023