



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: July 21, 2022		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		497450	497452	497449	497451	497454	497461	497456	497459	497460	497458	497457
Temperature	°C	25.1	25.3	25.0	25.0	25.2	25.4	25.7	25.1	24.6	23.8	24.5
pH	units	8.20	8.14	8.23	8.23	8.01	8.04	7.94	7.99	8.11	8.10	8.09
Dissolved Oxygen	mg/L	7.2	7.3	7.4	7.3	6.6	6.7	6.8	6.7	6.8	6.8	7.3
Oxygen Saturation	%	88	88	89	89	81	81	83	81	82	81	88
Biochemical Oxygen Demand	mg/L	17	13	6	8	24	12	7	8	9	10	9
Total Solids	mg/L	948	994	1,030	1,100	908	862	860	938	928	796	942
Total Suspended Solids	mg/L	360	450	560	520	250	220	225	330	330	130	305
Turbidity	n.t.u.	172	183	212	207	153	151	131	167	154	71	151
Chlorophyll a	ug/L	12.0	13.4	12.0	13.4	5.3	5.3	5.3	4.0	6.7	5.3	5.3
Total Organic Carbon	mg/L	12.4	13.0	12.9	12.9	14.5	14.7	14.2	14.9	13.9	14.0	14.1
Total Nitrogen	mg/L N	0.8	0.8	0.8	0.9	1.2	1.2	1.2	1.4	1.0	1.0	1.2
Ammonia Nitrogen	mg/L N	0.028	0.003	0.025	0.027	0.007	0.016	0.016	0.019	0.018	0.048	0.067
Nitrate Nitrogen	mg/L N	0.402	0.402	0.392	0.347	0.797	0.817	0.853	0.804	0.614	0.570	0.637
Soluble Phosphorus	mg/L P	0.20	0.18	0.20	0.19	0.25	0.28	0.31	0.27	0.24	0.24	0.24
Total Phosphorus	mg/L P	0.41	0.37	0.45	0.43	0.38	0.39	0.41	0.36	0.38	0.28	0.34
Escherichia coli	MPN/100 mL	100	70	110	150	180	190	290	90	270	200	690
Fecal Coliform	MPN/100 mL	220	130	120	190	390	340	360	230	200	170	910

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

Weather conditions during monitoring:

Wind Direction: West (W)
 Wind Speed: 14 km/h
 Cloud Coverage: 0 %
 Precipitation: <0.1 mm
 Air Temperature: 27 °C

Report Date:

August 29, 2022