



City of Winnipeg  
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: July 7, 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		493831	493833	493830	493832	493835	493842	493837	493840	493841	493839	493838
Temperature	°C	22.2	22.2	21.9	21.9	22.4	22.9	22.4	21.9	21.7	21.1	21.5
pH	units	8.11	8.12	8.25	8.22	7.96	7.86	7.90	7.94	8.02	7.96	7.97
Dissolved Oxygen	mg/L	7.8	7.9	8.0	7.8	6.9	6.8	7.2	6.8	7.1	7.2	7.4
Oxygen Saturation	%	89	90	91	88	80	79	83	77	81	81	84
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	5	4	<4	<4	<4	<4	<4
Total Solids	mg/L	908	942	884	914	752	760	782	780	800	800	832
Total Suspended Solids	mg/L	276	276	272	312	112	102	118	152	184	164	190
Turbidity	n.t.u.	128	131	132	147	66	63	73	91	100	90	98
Chlorophyll a	ug/L	6.7	5.3	5.3	6.7	5.3	5.3	6.2	2.7	4.5	3.6	2.7
Total Organic Carbon	mg/L	22.5	21.0	19.8	20.9	17.9	17.0	17.8	17.5	17.0	17.1	17.8
Total Nitrogen	mg/L N	0.9	0.9	0.9	1.0	1.2	1.2	1.3	1.4	1.1	1.2	1.3
Ammonia Nitrogen	mg/L N	0.037	0.025	0.039	0.076	0.029	0.028	0.042	0.042	0.048	0.087	0.115
Nitrate Nitrogen	mg/L N	0.431	0.423	0.442	0.442	0.879	0.936	0.976	1.060	0.846	0.865	0.894
Soluble Phosphorus	mg/L P	0.22	0.21	0.32	0.21	0.23	0.28	0.24	0.25	0.27	0.26	0.35
Total Phosphorus	mg/L P	0.62	0.38	0.39	0.41	0.31	0.28	0.31	0.32	0.33	0.34	0.35
Escherichia coli	MPN/100 mL	70	30	150	170	10	30	120	40	40	60	610
Fecal Coliform	MPN/100 mL	20	50	160	210	10	20	50	50	90	60	530

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

Weather conditions during monitoring:

Wind Direction: North (N)  
 Wind Speed: 15 km/h  
 Cloud Coverage: 70 %  
 Precipitation: 7.0 mm  
 Air Temperature: 22 °C

Report Date:

August 29, 2022