



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: October 13, 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		520164	520166	520163	520165	520168	520175	520170	520173	520174	520172	520171
Temperature	°C	7.4	7.1	7.0	7.8	9.5	9.4	9.0	10.0	10.0	10.1	10.4
pH	units	8.57	8.59	7.59	8.60	8.44	8.41	8.38	8.38	8.39	8.32	8.28
Dissolved Oxygen	mg/L	11.7	11.9	11.6	11.6	10.6	10.7	10.6	10.2	10.6	10.2	10.8
Oxygen Saturation	%	97	99	95	98	93	94	92	91	94	91	97
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	724	724	736	722	528	528	508	508	590	588	534
Total Suspended Solids	mg/L	36	33	29	18	24	18	15	8	10	11	<3
Turbidity	n.t.u.	21	19	18	11	20	17	14	6	8	10	8
Chlorophyll a	ug/L	35.4	41.4	41.4	44.1	4.3	2.7	3.2	<1.0	12.3	10.1	1.6
Total Organic Carbon	mg/L	9.6	9.4	9.7	9.7	12.7	12.8	12.9	13.3	13.3	13.8	12.6
Total Nitrogen	mg/L N	0.6	0.6	0.7	0.6	1.0	0.9	1.1	1.1	1.0	1.7	1.7
Ammonia Nitrogen	mg/L N	0.009	<0.003	<0.003	<0.003	0.031	0.033	0.041	0.056	0.050	0.714	0.491
Nitrate Nitrogen	mg/L N	na	na	na	na	na	na	na	na	na	na	na
Soluble Phosphorus	mg/L P	0.10	0.16	0.08	0.07	0.14	0.11	0.13	0.15	0.10	0.19	0.15
Total Phosphorus	mg/L P	0.25	0.17	0.18	0.15	0.20	0.16	0.15	0.16	0.14	0.22	0.20
Escherichia coli	MPN/100 mL	230	130	270	160	200	170	160	30	20	50	50
Fecal Coliform	MPN/100 mL	170	290	280	210	110	120	160	<10	60	30	30

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

Weather conditions during monitoring:

Wind Direction: West-North West (WNW)
 Wind Speed: 31 km/h
 Cloud Coverage: 100 %
 Precipitation: 9.1 mm
 Air Temperature: 0 °C

Report Date:

April 27, 2023