



City of Winnipeg  
Water and Waste Department

2023 RIVERS MONITORING

Survey Date: June 8, 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		577656	577658	577655	577657	577659	577666	577661	577664	577665	577663	577662
Temperature	°C	25.7	25.6	25.0	24.7	24.6	24.8	24.8	24.0	24.1	23.9	23.9
pH	units	8.26	8.28	8.26	8.27	8.02	8.03	8.04	8.01	8.09	8.06	8.08
Dissolved Oxygen	mg/L	7.5	7.5	7.7	7.5	6.9	6.9	6.9	6.6	6.9	6.8	7.9
Oxygen Saturation	%	92	92	94	90	83	83	83	79	82	80	93
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	3	<3	3	4	<3	3
Total Solids	mg/L	1,070	1,100	1,070	1,070	766	754	726	786	894	794	868
Total Suspended Solids	mg/L	310	354	344	358	162	128	88	160	204	104	158
Turbidity	n.t.u.	135	143	140	185	87	75	72	92	97	61	76
Chlorophyll a	ug/L	15.8	16.0	14.7	16.0	4.5	3.2	4.0	2.7	5.3	4.5	4.5
Total Organic Carbon	mg/L	13.7	15.0	12.9	14.1	12.5	12.8	12.0	12.4	13.4	12.5	12.8
Total Nitrogen	mg/L N	0.5	0.5	0.4	0.5	0.7	0.7	0.6	0.8	0.8	0.8	0.8
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.012	0.070	0.074
Nitrate Nitrogen	mg/L N	0.295	0.293	0.293	0.268	0.575	0.610	0.631	0.638	0.548	0.563	0.638
Soluble Phosphorus	mg/L P	0.15	0.15	0.15	0.14	0.20	0.21	0.20	0.20	0.19	0.19	0.20
Total Phosphorus	mg/L P	0.32	0.33	0.34	0.36	0.29	0.27	0.26	0.29	0.27	0.25	0.29
Escherichia coli	MPN/100 mL	<10	30	60	220	50	<10	30	20	80	300	600
Fecal Coliform	MPN/100 mL	<10	60	130	260	20	<10	40	60	220	370	410

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

Weather conditions during monitoring:

Wind Direction: South (S)  
 Wind Speed: 9 km/h  
 Cloud Coverage: 70 %  
 Precipitation: 8.0 mm  
 Air Temperature: 21 °C

Report Date:

December 4, 2023