



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: August 4, 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		501327	501329	501326	501328	501331	501338	501333	501336	501337	501335	501334
Temperature	°C	22.2	22.3	21.5	21.3	22.5	22.5	22.6	21.4	21.9	21.5	22.7
pH	units	8.13	8.21	8.32	8.34	8.13	8.11	8.01	8.08	8.18	8.16	8.16
Dissolved Oxygen	mg/L	8.0	8.0	8.1	8.2	7.1	7.4	7.4	7.4	7.4	7.4	7.1
Oxygen Saturation	%	92	92	92	92	82	90	90	84	84	84	82
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	878	878	908	888	724	682	622	688	714	650	700
Total Suspended Solids	mg/L	202	206	197	210	186	156	112	183	149	81	140
Turbidity	n.t.u.	108	117	117	111	138	113	87	83	95	33	77
Chlorophyll a	ug/L	13.4	13.4	10.7	13.4	4.0	2.7	2.7	2.7	5.3	3.6	2.7
Total Organic Carbon	mg/L	12.1	12.4	12.2	12.3	13.0	12.4	12.3	13.7	11.8	11.9	12.4
Total Nitrogen	mg/L N	1.0	1.2	1.1	1.0	1.3	1.3	1.3	1.4	1.1	1.3	1.4
Ammonia Nitrogen	mg/L N	0.019	0.013	0.024	0.017	0.010	0.062	0.015	0.026	0.022	0.200	0.121
Nitrate Nitrogen	mg/L N	0.238	0.230	0.239	0.248	0.592	0.602	0.610	0.647	0.504	0.521	0.605
Soluble Phosphorus	mg/L P	0.20	0.20	0.22	0.20	0.22	0.26	0.23	0.24	0.23	0.26	0.25
Total Phosphorus	mg/L P	0.32	0.33	0.34	0.32	0.34	0.35	0.33	0.32	0.30	0.31	0.33
Escherichia coli	MPN/100 mL	20	20	50	40	30	20	40	30	20	10	30
Fecal Coliform	MPN/100 mL	10	10	<10	30	10	10	40	60	30	40	80

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

Weather conditions during monitoring:

Wind Direction: South-South East (SSE)
 Wind Speed: 21 km/h
 Cloud Coverage: 10 %
 Precipitation: <0.1 mm
 Air Temperature: 24 °C

Report Date:

October 07, 2022