



City of Winnipeg
Water and Waste Department

2022 RIVERS MONITORING

Survey Date: May 26, 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		482622	482626	482617	482624	482631	482637	482632	482635	482636	482634	482633
Temperature	°C	13.1	13.1	13.2	13.3	14.5	14.4	14.4	14.0	13.9	13.7	13.5
pH	units	7.95	7.98	7.98	7.92	7.64	7.89	7.82	7.92	7.98	8.02	7.99
Dissolved Oxygen	mg/L	9.7	9.6	9.7	9.7	9.3	9.7	9.6	9.7	9.7	9.7	9.7
Oxygen Saturation	%	93	92	93	93	91	95	94	94	94	93	93
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Total Solids	mg/L	1,060	1,090	1,050	1,050	582	598	546	578	706	954	764
Total Suspended Solids	mg/L	525	553	486	528	74	86	70	86	196	158	166
Turbidity	n.t.u.	245	50	254	178	63	52	66	73	95	67	25
Chlorophyll a	ug/L	10.7	6.7	10.7	6.7	2.7	6.7	5.3	5.3	5.3	5.3	6.7
Total Organic Carbon	mg/L	11.8	12.0	11.8	11.8	10.1	11.3	9.8	11.7	12.1	11.9	12.3
Total Nitrogen	mg/L N	1.1	1.0	1.0	1.0	1.7	1.8	1.8	1.9	1.7	1.8	2.0
Ammonia Nitrogen	mg/L N	0.068	0.028	0.034	0.050	0.038	0.049	0.053	0.066	0.063	0.193	0.146
Nitrate Nitrogen	mg/L N	0.160	0.184	0.183	0.182	0.949	0.949	0.936	0.944	0.796	0.796	0.795
Soluble Phosphorus	mg/L P	0.09	0.10	0.09	0.10	0.20	0.22	0.20	0.20	0.18	0.33	0.24
Total Phosphorus	mg/L P	0.46	0.50	0.46	0.45	0.31	0.31	0.29	0.29	0.34	0.47	0.39
Escherichia coli	MPN/100 mL	10	10	70	30	<10	<10	10	10	40	10	20
Fecal Coliform	MPN/100 mL	50	20	20	20	10	10	30	50	20	30	30

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

Weather conditions during monitoring:

Wind Direction: South (S)
 Wind Speed: 20 km/h
 Cloud Coverage: 90 %
 Precipitation: 2.6 mm
 Air Temperature: 13 °C

Report Date:

June 14, 2022