

2023 - 2024 RIVER MONITORING REPORT

Parameter	Unit	Assiniboine River Sampling Locations			Red River Sampling Locations									
		Headingley Bridge	Assiniboine Park Bridge	Osborne Street Bridge	St. Adolphe Pierre Delorme Bridge	Fort Garry Bridge	Queen Elizabeth Way Bridge	Provencher Bridge	Harry Lazarenko Bridge	North Perimeter Bridge	St. Andrew's Lock and Dam Bridge			
		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11			
Temperature ^{1,2}	° C	22.1	22.0	22.3	22.1	23.3	18.8	18.5	23.1	22.1	22.6			
Dissolved Oxygen ^{1,2}	mg/L	6.25	9.32	7.23	5.88	5.60	8.06	8.43	7.31	6.61	7.10			
pH ^{1,2}	units	8.51	8.78	8.71	8.42	8.43	8.41	8.46	8.53	8.43	8.34			
Ammonia ³	mg/L N	<0.013	<0.013	<0.013	<0.013	0.018	0.022	0.018	0.014	0.28	ND			
Biochemical Oxygen Demand ³	mg/L	6	3	<3	<3	<3	<3	<3	<3	<3	ND			
Total Suspended Solids ³	mg/L	63.8	54.2	42.6	23.6	14.0	10.4	15.0	22.8	22.0	ND			
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND			
Total Nitrogen ³	mg/L N	1.15	0.68	<0.20	0.92	0.89	0.65	1.01	0.90	1.17	ND			
Total Phosphorus ³	mg/L P	0.201	0.163	0.147	0.224	0.229	0.224	0.182	0.198	0.234	ND			
Escherichia Coliform ^{2,4}	MPN/100 mL	17	40	120	20	20	55	180	573	120	30			
Survey Date:	<i>July 29, 2023</i>	Time:			10:50 AM	1:53 PM	1:06 PM	8:45 AM	10:19 AM	11:07 AM	11:48 AM	3:03 PM	4:09 PM	5:03 PM

Notes:

CSO = Combined Sewer Overflow
 MPN = Most Probable Number
 N/A = Not Available
 ND = No Data

- 1) Field analysed parameter
- 2) Average value of discrete samples reported
- 3) Value of composited sample reported
- 4) Analysed by contract laboratory
- 5) Calculated by laboratory

< VALUE Less than minimum detection
 > VALUE Greater than maximum detection

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		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11			
Temperature ^{1,2}	° C	21.8	24.3	30.6	23.4	23.7	24.2	24.3	25.7	25.1	26.1			
Dissolved Oxygen ^{1,2}	mg/L	5.92	5.58	4.38	5.40	4.81	5.38	5.49	5.90	5.22	6.13			
pH ^{1,2}	units	8.71	7.23	8.73	8.53	8.44	8.41	8.47	8.51	8.42	8.32			
Ammonia ³	mg/L N	<0.013	0.017	<0.013	<0.013	0.017	0.024	0.032	<0.013	0.35	ND			
Biochemical Oxygen Demand ³	mg/L	4	4	4	<3	<3	<3	<3	<3	<3	ND			
Total Suspended Solids ³	mg/L	60.0	50.0	44.8	24.6	14.0	8.2	16.0	18.2	14.6	ND			
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND			
Total Nitrogen ³	mg/L N	0.92	0.77	0.63	0.82	1.24	0.77	0.52	0.99	0.89	ND			
Total Phosphorus ³	mg/L P	0.184	0.185	0.192	0.233	0.263	0.248	0.229	0.187	0.261	ND			
Escherichia Coliform ^{2,4}	MPN/100 mL	<10	60	23	15	23	47	123	147	63	90			
Survey Date:	<i>July 30, 2023</i>	Time:			9:12 AM	11:00 AM	12:48 PM	9:00 AM	9:50 AM	10:50 AM	11:35 AM	12:10 PM	1:10 PM	2:10 PM

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		Headingley Bridge	Assiniboine Park Bridge	Osborne Street Bridge	St. Adolphe Pierre Delorme Bridge	Fort Garry Bridge	Queen Elizabeth Way Bridge	Provencher Bridge	Harry Lazarenko Bridge	North Perimeter Bridge	St. Andrew's Lock and Dam Bridge			
		R1	R3	RX1	R5	R7	R8	RX2	R9	R10	R11			
Temperature ^{1,2}	° C	22.8	27.6	23.5	21.6	21.0	24.5	25.0	25.8	25.1	27.8			
Dissolved Oxygen ^{1,2}	mg/L	6.23	5.45	5.99	6.68	6.45	5.45	5.30	5.78	5.35	4.33			
pH ^{1,2}	units	8.51	8.80	8.45	8.47	8.42	8.41	8.49	8.56	8.42	8.32			
Ammonia ³	mg/L N	<0.013	<0.013	<0.013	<0.013	<0.013	0.022	0.014	<0.013	0.44	ND			
Biochemical Oxygen Demand ³	mg/L	NRISD	NRISD	NRISD	NRISD	NRISD	NRISD	NRISD	NRISD	NRISD	ND			
Total Suspended Solids ³	mg/L	50.6	47.3	46.8	18.0	10.6	8.0	21.7	21.3	15.3	ND			
Total Kjeldahl Nitrogen ⁵	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND			
Total Nitrogen ³	mg/L N	0.84	0.85	1.26	0.50	0.79	1.16	0.65	1.25	0.89	ND			
Total Phosphorus ³	mg/L P	0.194	0.179	0.186	0.233	0.240	0.243	0.226	0.237	0.257	ND			
Escherichia Coliform ^{2,4}	MPN/100 mL	10	20	60	<10	20	30	93	253	77	40			
Survey Date:	<i>July 31, 2023</i>	Time:			9:35 AM	10:25 AM	12:00 PM	8:48 AM	9:39 AM	10:35 AM	11:25 AM	11:52 AM	12:34 PM	1:31 PM

Notes:

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NRISD = No result, insufficient seed/depletion

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