

**City of Winnipeg
Water and Waste Department**

2018 RIVERS SURVEY MONITORING REPORT

Survey Date: August 16, 2018		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 ¹ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Sample Number		89146	89148	89145	89147	89149	89155	89150	89153	89154	89152	89151
Temperature	° C	20.7	21.2	21.0	22.3	22.9	23.7	22.8	23.0	22.7	22.3	22.5
Dissolved Oxygen	mg/L	8.03	7.91	7.60	7.22	8.49	8.17	8.10	8.19	7.63	7.05	8.11
Oxygen Saturation	%	89.6	88.5	84.8	83.0	98.5	95.0	94.1	88.4	95.7	95.4	81.0
Biochemical Oxygen Demand	mg/L	5	<4	<4	<4	<4	<4	<4	<4	<4	4	<4
pH	units	8.60	8.64	8.49	8.48	8.68	8.66	8.63	8.45	8.41	8.18	8.28
Total Solids	mg/L	790	776	804	788	884	840	800	818	804	804	744
Total Suspended Solids	mg/L	53	48	60	41	12	11	19	31	40	57	29
Turbidity	n.t.u.	39.4	36.1	39.6	33.4	11.4	33.5	19.3	24.7	10.1	44.2	27.5
Total Organic Carbon	mg/L	11.8	10.6	13.2	10.6	11.0	10.2	10.1	9.4	9.7	10.3	9.7
Chlorophyll a	ug/L	28.7	19.6	19.6	19.6	11.2	10.1	16.6	13.4	14.0	13.4	9.6
Ammonia Nitrogen	mg/L N	0.026	0.037	0.023	0.007	0.021	0.009	0.404	0.248	0.185	1.290	0.441
Nitrate Nitrogen	mg/L N	0.009	0.004	0.006	0.006	0.012	0.009	0.034	0.528	0.495	0.634	0.660
Total Nitrogen	mg/L N	1.1	1.0	1.2	1.0	1.1	0.9	1.3	1.6	1.5	2.9	2.0
Soluble Phosphorus	mg/L P	0.051	0.051	0.081	0.059	0.127	0.147	0.185	0.222	0.234	0.309	0.222
Total Phosphorus	mg/L P	0.1918	0.1551	0.1898	0.1497	0.1888	0.1699	0.2339	0.2593	0.2572	0.4335	0.3019
Escherichia Coliform	MPN/100 mL	<10	<10	220	50	<10	<10	20	20	130	40	20
Fecal Coliform	MPN/100 mL	<10	40	160	120	10	<10	<10	30	120	100	20

Weather Conditions during monitoring Winds N at 6.9 km/hr with 0% cloud cover and 0 mm of precipitation. Average air temperature during survey at 18°C

Notes: 1) Red River Floodway at South Floodway Control Gates **734.4** ft. Compiled By: H.Demchenko
Compliance Reporting Technician

Approved By: C.Diduck
Analytical Services Branch Head

Date Compiled: 9-May-19

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