

**City of Winnipeg
Water and Waste Department**

2018 RIVERS SURVEY MONITORING REPORT

Survey Date: October 11, 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		147555	147557	147554	147556	147558	147564	147559	147562	147563	147561	147560
Temperature	° C	2.8	3.1	2.8	3.7	5.6	5.3	5.3	5.7	4.8	5.6	6.0
Dissolved Oxygen	mg/L	12.9	12.8	13.0	12.7	11.9	11.8	11.5	11.3	11.7	11.3	12.2
Oxygen Saturation	%	94.4	95.8	95.8	95.8	94.2	93.7	91.4	90.5	91.2	90.0	98.6
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.70	8.67	8.64	8.66	8.69	8.66	8.54	8.63	8.97	8.44	8.50
Total Solids	mg/L	622	616	636	632	832	852	834	846	766	758	738
Total Suspended Solids	mg/L	51	43	48	31	24	30	30	18	32	40	25
Turbidity	n.t.u.	36.7	36.9	35.6	22.3	28.0	30.1	33.2	34.7	28.1	23.5	21.2
Total Organic Carbon	mg/L	8.6	8.4	9.2	7.8	11.3	12.5	11.0	12.2	11.4	10.1	10.1
Chlorophyll a	ug/L	24.6	28.3	28.3	28.8	6.9	6.4	5.9	6.4	18.7	17.6	37.4
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	0.659	0.311	0.290	0.929	0.636
Nitrate Nitrogen	mg/L N	0.323	0.310	0.343	0.311	0.464	0.486	0.500	0.326	0.291	0.400	0.451
Total Nitrogen	mg/L N	1.1	1.1	1.1	1.0	1.6	1.7	2.3	1.9	1.7	2.5	2.2
Soluble Phosphorus	mg/L P	0.151	0.128	0.145	0.134	0.138	0.180	0.193	0.153	0.150	0.257	0.208
Total Phosphorus	mg/L P	0.2207	0.2094	0.2441	0.1936	0.1889	0.2018	0.2796	0.2196	0.2159	0.3393	0.2811
Escherichia Coliform	MPN/100 mL	170	90	190	120	120	40	110	50	20	40	60
Fecal Coliform	MPN/100 mL	190	90	230	130	60	60	140	50	30	100	120

Weather Conditions during monitoring Winds NW at 17.9 km/hr with 100% cloud cover and 0 mm of precipitation. Average air temperature during survey at 0°C

Notes: 1) Red River Floodway at South Floodway Control Gates **734.3** 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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