

**City of Winnipeg
Water and Waste Department**

2018 RIVERS SURVEY MONITORING REPORT

Survey Date: June 21, 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		907	909	906	908	910	916	911	914	915	913	912
Temperature	° C	25.4	25.7	24.6	23.9	25.6	26.6	24.8	23.2	23.3	23.6	23.4
Dissolved Oxygen	mg/L	7.99	8.00	8.10	7.93	6.90	7.02	7.10	6.80	7.23	7.31	8.70
Oxygen Saturation	%	97.2	98.0	97.2	94.1	83.7	86.6	86.5	81.0	84.7	86.0	102
Biochemical Oxygen Demand	mg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
pH	units	8.27	8.35	8.36	8.37	7.97	7.98	8.07	8.03	8.18	8.16	8.13
Total Solids	mg/L	1010	1030	1020	1040	832	782	728	826	918	760	888
Total Suspended Solids	mg/L	213	225	240	238	226	81	117	144	168	71	240
Turbidity	n.t.u.	111.2	114.8	110.0	117.6	150.8	62.4	83.2	102.8	116.8	52.4	148.8
Total Organic Carbon	mg/L	14.9	15.9	15.0	14.8	14.8	12.6	12.2	13.0	13.6	11.9	14.2
Chlorophyll a	ug/L	24.0	28.6	25.4	22.7	<1.0	4.2	5.3	5.3	10.7	8.0	12.0
Ammonia Nitrogen	mg/L N	0.006	0.020	<0.003	0.079	<0.003	0.091	0.113	0.353	0.195	0.404	0.320
Nitrate Nitrogen	mg/L N	0.469	0.535	0.520	0.585	0.855	0.603	0.678	0.857	0.747	0.805	0.961
Total Nitrogen ²	mg/L N	na	na	na	na	na	na	na	na	na	na	na
Soluble Phosphorus	mg/L P	0.077	0.105	0.081	0.127	0.125	0.242	0.180	0.190	0.169	0.178	0.201
Total Phosphorus	mg/L P	0.3150	0.2690	0.3050	0.3100	0.3310	0.2370	0.2710	0.3230	0.3050	0.2330	0.3430
Escherichia Coliform	MPN/100 mL	70	100	150	260	70	20	20	30	90	160	240
Fecal Coliform	MPN/100 mL	100	170	60	160	80	40	40	20	150	200	360

Weather Conditions during monitoring Winds S at 3.1 km/hr with 5% cloud cover and 0 mm of precipitation. Average air temperature during survey at 30°C

Notes:

1) Red River Floodway at South Floodway Control Gates **736.0** ft.

2) Not analysed for TN due to sample manager issue.

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