

**City of Winnipeg  
Water and Waste Department**

**2017 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : November 2, 2017		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 <sup>3</sup> (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	0.4	0.9	0.4	0.6	2.9	3.0	3.1	2.6	2.0	2.2	3.0
Dissolved Oxygen	mg/L	13.7	13.7	13.7	13.5	12.6	12.4	12.5	12.3	12.5	12.6	13.1
Oxygen Saturation	%	95	97	95	94	93	93	94	91	91	92	98
Biochemical Oxygen Demand	mg/L	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>	nr <sup>4</sup>
pH	units	8.43	8.42	8.42	8.42	8.42	8.41	8.39	8.32	8.36	8.26	8.22
Total Solids	mg/L	744	748	730	762	1190	1190	1210	1130	1060	1030	998
Total Suspended Solids	mg/L	63	60	57	52	116	117	116	35	46	28	49
Turbidity	n.t.u.	43	41	42	43	97	96	88	36	50	30	48
Total Organic Carbon	mg/L	8	8	9	8	11	12	11	11	10	11	11
Chlorophyll a	ug/L	40	38	43	46	10	11	9	8	16	14	16
Ammonia Nitrogen	mg/L N	<0.003	0.055	<0.003	<0.003	<0.003	0.096	0.117	0.258	0.105	0.559	0.459
Nitrate Nitrogen	mg/L N	0.050	0.030	0.040	0.060	0.722	0.704	0.696	0.708	0.570	0.617	0.642
Total Nitrogen	mg/L N	0.6	0.8	0.5	0.6	1.5	1.7	2.1	2.1	2.9	2.5	2.4
Soluble Phosphorus	mg/L P	0.09	0.09	0.08	0.10	0.14	0.13	0.16	0.13	0.13	0.20	0.11
Total Phosphorus	mg/L P	0.21	0.25	0.19	0.22	0.27	0.27	0.26	0.23	0.21	0.29	0.28
Escherichia Coliform <sup>2</sup>	MPN/100 mL	10	20	50	20	10	40	30	90	60	160	180
Fecal Coliform <sup>2</sup>	MPN/100 mL	10	10	40	60	20	<10	30	40	70	100	110

Weather Conditions during monitoring Winds NW at 17 km/hr with 90% cloud cover and 0.3 mm of precipitation. Average air temperature during survey at <0.1°C

- Notes:
- 1) LIMS Reference No: **51181**
  - 2) Analysed by contract laboratory
  - 3) Red River Floodway at South Floodway Control Gates **731.4** ft.
  - 4) No result because the initial temperature was outside the BOD test limit.

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