

**City of Winnipeg
Water and Waste Department**

2017 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : June 1, 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 ³ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	16.4	16.4	15.9	15.7	18.2	18.3	17.4	17.3	16.5	16.5	16.0
Dissolved Oxygen	mg/L	9.3	9.3	9.4	9.3	9.4	9.5	9.6	9.5	9.4	9.4	9.6
Oxygen Saturation	%	95	95	95	94	100	101	100	99	95	96	98
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.27	8.27	8.16	8.17	8.31	8.33	8.37	8.33	8.34	8.18	8.26
Total Solids	mg/L	1010	992	1000	972	776	708	724	726	856	824	854
Total Suspended Solids	mg/L	211	177	192	148	131	61	79	84	126	103	132
Turbidity	n.t.u.	95	83	109	98	89	50	58	54	78	60	77
Total Organic Carbon	mg/L	12	12	15	14	12	12	12	12	13	13	13
Chlorophyll a	ug/L	17	19	16	17	17	16	17	19	19	16	18
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	0.073	0.057	0.106	0.062	0.123	0.205
Nitrate Nitrogen	mg/L N	0.116	0.116	0.113	0.118	0.135	0.143	0.138	0.165	0.140	0.142	0.187
Total Nitrogen	mg/L N	1.0	0.9	1.0	0.9	0.7	0.8	0.9	1.0	1.2	1.0	1.2
Soluble Phosphorus	mg/L P	0.10	0.11	0.12	0.12	0.09	0.09	0.10	0.10	0.13	0.13	0.14
Total Phosphorus	mg/L P	0.30	0.27	0.36	0.32	0.25	0.20	0.22	0.22	0.23	0.24	0.27
Escherichia Coliform ²	MPN/100 mL	12	5	19	20	6	4	30	58	50	62	112
Fecal Coliform ²	MPN/100 mL	10	1	15	25	13	4	63	68	81	91	345

Weather Conditions during monitoring Winds south/southwest at 11 km/hr with 15% cloud cover and nil mm of precipitation. Average air temperature during survey at 28°C

Notes: 1) LIMS Reference No: **49675**
 2) Analysed by contract laboratory
 3) Red River Floodway at South Floodway Control Gates **735.5** ft.

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