

**City of Winnipeg
Water and Waste Department**

2016 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 31, 2016		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	21.1	21.4	21.0	20.3	21.8	21.3	21.3	21.5	20.9	21.0	20.8
Dissolved Oxygen	mg/L	9.2	9.1	9.0	8.3	8.6	8.5	8.4	7.9	8.1	8.3	9.1
Oxygen Saturation	%	103	103	101	92	92	95	95	90	91	93	101
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.63	8.62	8.59	8.59	8.14	8.28	8.17	8.16	8.37	8.36	8.32
Total Solids	mg/L	836	844	846	782	822	820	772	798	788	726	738
Total Suspended Solids	mg/L	180	174	154	140	96	96	66	90	92	50	60
Turbidity	n.t.u.	103	94	90	90	76	75	54	59	71	42	49
Total Organic Carbon	mg/L	23	26	25	26	21	20	23	20	21	21	20
Chlorophyll a	ug/L	39	46	44	45	13	16	14	13	28	28	29
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.047	0.081	<0.003	0.089	0.026
Nitrate Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	0.319	0.348	0.373	0.395	0.269	0.341	0.428
Total Nitrogen	mg/L N	0.5	0.6	0.5	0.7	0.8	0.9	1.0	1.1	0.8	0.9	1.2
Soluble Phosphorus	mg/L P	0.05	0.05	0.06	0.05	0.18	0.19	0.20	0.21	0.14	0.17	0.19
Total Phosphorus	mg/L P	0.27	0.29	0.28	0.29	0.30	0.29	0.30	0.32	0.29	0.28	0.30
Escherichia Coliform ²	MPN/100 mL	93	430	23	74	15	4	30	23	150	74	240
Fecal Coliform ²	MPN/100 mL	93	430	23	150	15	4	30	23	150	74	240

Weather Conditions during monitoring Winds E at 7 km/hr with 95% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 13.8°C

Notes: 1) LIMS Reference No: **47277**
 2) Analysed by contract laboratory
 3) Red River Floodway at South Floodway Control Gates **734** ft.

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Date Compiled: 11-Jan-19

File No: 040-14-09-03-00