

**City of Winnipeg
Water and Waste Department**

2014 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : May 20, 2014		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 ⁴ (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	11.7	11.8	11.7	11.5	12.0	12.0	12.0	11.8	11.9	11.7	12.0
Dissolved Oxygen	mg/L	10.0	9.1	9.9	10.0	9.8	9.8	9.9	9.9	9.9	9.9	10.1
Oxygen Saturation ²	%	92	91	91	91	91	91	92	92	91	92	94
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
pH	units	8.17	8.11	8.08	8.09	8.15	8.19	8.17	8.07	8.03	8.02	7.70
Total Solids	mg/L	822	790	792	828	640	644	620	646	758	708	742
Total Suspended Solids	mg/L	300	295	275	320	98	76	94	88	157	153	183
Turbidity	n.t.u.	167	168	167	172	78	72	73	76	112	106	115
Total Organic Carbon	mg/L	20	24	20	21	20	19	19	20	20	19	63
Chlorophyll a	ug/L	28	18	28	21	5	5	5	5	11	11	11
Ammonia Nitrogen	mg/L N	0.012	0.012	0.030	0.256	0.019	0.010	0.044	0.047	0.053	0.060	0.073
Nitrate Nitrogen	mg/L N	0.028	0.037	0.041	0.034	0.656	0.644	0.665	0.743	0.527	0.541	0.571
Total Kjeldahl Nitrogen	mg/L N	2.2	2.2	2.0	1.9	2.0	1.4	1.8	2.0	1.6	1.9	1.9
Total Nitrogen ²	mg/L N	2.2	2.2	2.0	1.9	2.7	2.0	2.5	2.7	2.1	2.4	2.5
Soluble Phosphorus	mg/L P	0.04	0.04	0.04	0.04	0.07	0.07	0.08	0.09	0.07	0.08	0.21
Total Phosphorus	mg/L P	0.50	0.60	0.50	0.50	0.40	0.30	0.30	0.30	0.50	0.40	0.40
Escherichia Coliform ³	MPN/100 mL	<3	4	9	23	4	23	7	93	23	150	230
Fecal Coliform ³	MPN/100 mL	<3	4	9	23	4	23	7	93	23	150	380

Weather Conditions during monitoring Winds WNW at 29 km/hr with 100% cloud cover and 1.7 mm of precipitation. Average air temperature during survey at 10.6°C

Notes: 1) LIMS Reference No: **39238**
 2) Calculated values
 3) Analysed by contract laboratory
 4) Red River Floodway at South Floodway Control Gates **741.3** ft.

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