

**City of Winnipeg
Water and Waste Department**

2015 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : April 28, 2015		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	11.3	10.7	10.9	10.4	11.9	12.6	12.1	10.4	9.8	9.8	9.9
Dissolved Oxygen	mg/L	10.2	10.2	10.2	10.4	10.5	10.5	10.5	10.5	10.5	10.4	10.5
Oxygen Saturation ²	%	94	93	93	93	98	99	98	94	93	92	94
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	3	<3	<3
pH	units	8.34	8.31	8.23	7.97	8.51	8.51	8.43	7.96	7.98	7.84	7.59
Total Solids	mg/L	1060	1010	942	1030	532	568	738	468	948	864	890
Total Suspended Solids	mg/L	199	237	230	267	26	21	22	28	203	192	170
Turbidity	n.t.u.	113	131	122	155	23	20	19	21	119	93	108
Total Organic Carbon	mg/L	17	16	18	18	12	13	12	12	17	17	17
Chlorophyll a	ug/L	19	12	<1	2	2	9	35	6	17	<1	<1
Ammonia Nitrogen	mg/L N	0.038	0.017	0.035	0.027	0.025	0.024	0.242	0.288	0.069	0.154	0.294
Nitrate Nitrogen	mg/L N	0.256	0.258	0.267	0.272	0.006	0.008	0.008	0.028	0.227	0.238	0.281
Total Kjeldahl Nitrogen	mg/L N	0.8	0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.7	0.9
Total Nitrogen ²	mg/L N	1.1	0.8	1.0	0.5	0.3	0.3	0.3	0.3	0.8	0.9	1.2
Soluble Phosphorus	mg/L P	0.07	0.08	0.08	0.07	0.03	0.02	0.05	0.06	0.07	0.10	0.24
Total Phosphorus	mg/L P	0.40	0.40	0.40	0.40	<0.2	<0.2	0.20	<0.2	0.40	0.40	0.50
Escherichia Coliform ³	MPN/100 mL	4	23	43	7	<3	<3	43	23	23	23	23
Fecal Coliform ³	MPN/100 mL	4	23	43	15	<3	<3	43	23	23	23	23

Weather Conditions during monitoring Winds at <31 km/hr with 2% cloud cover and 0.2 mm of precipitation. Average air temperature during survey at 18.8°C

- Notes:
- 1) LIMS Reference No: **42393**
 - 2) Calculated values
 - 3) Analysed by contract laboratory
 - 4) Red River Floodway at South Floodway Control Gates **734.4** ft.

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