

**City of Winnipeg
Water and Waste Department**

2013 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : July 10, 2013		Assiniboine River Sampling Locations				Red River Sampling Locations						
Parameter	Unit	HEADINGLY BRIDGE	WEST PERIMETER BRIDGE	ASSINIBOINE PARK FOOT BRIDGE	MAIN STREET BRIDGE	SOUTH FLOODWAY CONTROL ⁴	SOUTH PERIMETER BRIDGE	FORT GARRY BRIDGE	NORWOOD BRIDGE	REDWOOD BRIDGE	NORTH PERIMETER BRIDGE	LOCKPORT BRIDGE
Temperature	°C	24.2	24.4	24.3	24.2	24.7	24.6	24.5	24.3	23.7	23.5	23.6
Dissolved Oxygen	mg/L	7.3	7.3	7.5	7.4	6.6	6.8	6.5	6.7	7.0	6.9	7.0
Oxygen Saturation ²	%	88	88	90	89	81	83	79	80	84	82	84
pH	units	8.22	8.22	8.23	8.17	7.99	8.02	8.00	7.92	8.00	7.92	7.70
Total Solids	mg/L	1100	1080	1110	1060	624	620	604	608	740	710	760
Total Suspended Solids	mg/L	432	418	416	394	94	64	105	90	188	164	190
Turbidity	n.t.u.	196	184	196	192	71	64	68	77	113	101	125
Total Organic Carbon	mg/L	17	17	16	15	12	12	12	11	18	11	12
Chlorophyll a	ug/L	4	4	7	4	4	2	2	5	4	4	4
Ammonia Nitrogen	mg/L N	0.044	0.039	0.005	0.010	0.015	<0.003	0.025	0.017	0.011	0.057	0.106
Nitrate Nitrogen	mg/L N	0.318	0.308	0.315	0.298	0.596	0.628	0.614	0.708	0.596	0.630	0.694
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.22	0.22	0.22	0.20	0.27	0.26	0.25	0.25	0.23	0.24	0.35
Total Phosphorus	mg/L P	0.60	0.60	0.60	0.60	0.40	0.40	0.40	0.40	0.50	0.40	0.50
Escherichia Coliform ³	MPN/100 mL	43	20	93	230	15	23	120	210	43	93	4300
Fecal Coliform ³	MPN/100 mL	43	28	93	230	15	23	120	210	230	230	4300

Weather Conditions during monitoring: Winds W at 12 km/hr with 95 % cloud cover and 9 mm of precipitation. Average air temperature during survey at 21 C

- Notes:
- 1) LIMS Reference No: 36466
 - 2) Calculated values
 - 3) Analyzed by contract laboratory.
 - 4) Red River elevation at South Floodway Control Gates 739.6

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