

**City of Winnipeg
Water and Waste Department**

2015 RIVERS SURVEY MONITORING REPORT

Survey Date ¹ : August 7, 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	20.8	20.8	20.7	20.8	22.4	22.4	22.7	21.9	21.4	21.3	21.0
Dissolved Oxygen	mg/L	7.9	8.0	7.8	7.8	7.4	7.3	7.5	7.3	7.6	7.5	8.3
Oxygen Saturation ²	%	88	89	88	88	85	84	86	83	86	85	93
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3
pH	units	8.46	8.51	8.44	8.41	8.27	8.27	8.19	8.03	8.16	8.08	8.12
Total Solids	mg/L	1190	1270	1300	1250	944	876	916	886	922	894	948
Total Suspended Solids	mg/L	174	183	191	184	132	123	85	80	63	79	122
Turbidity	n.t.u.	98	107	85	100	114	132	70	80	51	55	88
Total Organic Carbon	mg/L	11	11	12	13	14	14	14	13	12	11	14
Chlorophyll a	ug/L	14	21	18	16	7	4	4	4	12	14	20
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.035	0.033	0.027	0.099	0.056
Nitrate Nitrogen	mg/L N	0.513	0.464	0.400	0.392	0.428	0.446	0.432	0.518	0.456	0.490	0.447
Total Kjeldahl Nitrogen	mg/L N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Nitrogen ²	mg/L N	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.7	0.7
Soluble Phosphorus	mg/L P	0.13	0.12	0.12	0.12	0.15	0.16	0.14	0.15	0.15	0.16	0.15
Total Phosphorus	mg/L P	0.40	0.30	0.30	0.40	0.40	0.40	0.30	0.30	0.30	0.30	0.40
Escherichia Coliform ³	MPN/100 mL	430	930	380	210	36	14	36	110	430	230	4600
Fecal Coliform ³	MPN/100 mL	430	930	380	290	36	14	36	210	430	230	4600

Weather Conditions during monitoring Winds SW at 13 km/hr with 75% cloud cover and 0.5 mm of precipitation. Average air temperature during survey at 21.2°C

<p>Notes: 1) LIMS Reference No: 43464 2) Calculated values 3) Analysed by contract laboratory 4) Red River Floodway at South Floodway Control Gates 734.1 ft.</p> <p>File No: 040-14-09-03-00</p>	<p>Report Compiled By: <u>H.Demchenko</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>C.Diduck</u> Analytical Services Branch Head</p> <p>Date Compiled: <u>11-Jan-19</u></p>
--	--