

**City of Winnipeg  
Water and Waste Department**

**2015 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : <b>October 29, 2015</b>		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 <sup>4</sup> (R5)	SOUTH PERIMETER BRIDGE (R6)	FORT GARRY BRIDGE (R7)	NORWOOD BRIDGE (R8)	REDWOOD BRIDGE (R9)	NORTH PERIMETER BRIDGE (R10)	LOCKPORT BRIDGE (R11)
Temperature	° C	5.9	6.2	6.2	6.1	6.9	6.9	6.9	7.2	7.1	7.1	7.9
Dissolved Oxygen	mg/L	11.1	11.0	11.0	11.0	11.1	11.1	11.1	10.9	10.8	10.9	11.0
Oxygen Saturation <sup>2</sup>	%	89	90	90	89	92	91	91	91	90	90	93
Biochemical Oxygen Demand	mg/L	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>	nr <sup>5</sup>
pH	units	8.50	8.49	8.51	8.42	8.68	8.62	8.61	8.47	8.33	8.25	8.11
Total Solids	mg/L	856	830	840	880	832	850	844	812	830	812	794
Total Suspended Solids	mg/L	68	69	85	84	41	46	33	22	40	29	26
Turbidity	n.t.u.	44	45	46	44	33	35	28	19	32	24	26
Total Organic Carbon	mg/L	13	11	10	11	13	13	12	12	13	12	12
Chlorophyll a	ug/L	29	27	26	29	30	28	24	30	26	27	25
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.234	0.292	0.123	0.449	0.468
Nitrate Nitrogen	mg/L N	0.102	0.076	0.086	0.085	0.189	0.147	0.191	0.199	0.146	0.279	0.309
Total Kjeldahl Nitrogen	mg/L N	2.2	1.2	1.6	1.1	1.6	1.2	1.5	1.5	2.8	1.4	2.0
Total Nitrogen <sup>2</sup>	mg/L N	2.3	1.3	1.7	1.2	1.8	1.3	1.7	1.7	2.9	1.7	2.3
Soluble Phosphorus	mg/L P	0.10	0.09	0.09	0.10	0.07	0.07	0.10	0.11	0.10	0.15	0.17
Total Phosphorus	mg/L P	0.50	<0.2	0.30	0.30	0.20	0.20	0.30	0.30	0.30	0.30	0.30
Escherichia Coliform <sup>3</sup>	MPN/100 mL	40	10	40	30	10	10	30	60	<10	80	240
Fecal Coliform <sup>3</sup>	MPN/100 mL	80	90	80	200	30	190	40	60	<10	170	130

Weather Conditions during monitoring Winds N at 16 km/hr with 100% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 3.5°C

- Notes:
- 1) LIMS Reference No: **44240**
  - 2) Calculated values
  - 3) Analysed by contract laboratory
  - 4) Red River Floodway at South Floodway Control Gates **729.4** ft.
  - 5) No result due to technician error

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