

**City of Winnipeg  
Water and Waste Department**

**2016 RIVERS SURVEY MONITORING REPORT**

Survey Date <sup>1</sup> : <b>October 13, 2016</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>3</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	7.6	7.8	7.6	7.1	9.4	8.9	9.3	8.8	8.0	8.0	9.5
Dissolved Oxygen	mg/L	11.4	11.2	11.3	11.3	10.7	10.8	10.8	10.8	10.9	10.9	12.3
Oxygen Saturation	%	95	94	94	93	94	93	94	92	92	92	105
Biochemical Oxygen Demand	mg/L	4	4	4	4	<3	<3	<3	<3	<3	<3	<3
pH	units	8.07	8.08	7.94	7.89	8.09	8.06	8.02	7.86	8.01	8.09	8.04
Total Solids	mg/L	1470	1380	1370	1400	882	970	876	838	974	870	872
Total Suspended Solids	mg/L	880	608	670	620	100	82	76	62	240	126	152
Turbidity	n.t.u.	286	287	298	216	57	41	77	58	105	76	52
Total Organic Carbon	mg/L	54	34	44	51	23	21	22	22	28	23	25
Chlorophyll a	ug/L	28	25	18	25	5	nr <sup>4</sup>	7	7	12	23	37
Ammonia Nitrogen	mg/L N	0.033	0.049	0.037	0.034	0.014	<0.003	0.065	0.128	0.082	0.104	0.201
Nitrate Nitrogen	mg/L N	0.307	0.302	0.306	0.326	0.397	0.395	0.387	0.406	0.392	0.385	0.424
Total Nitrogen	mg/L N	5.0	3.1	3.9	5.0	1.9	1.9	2.0	2.1	2.7	2.4	2.7
Soluble Phosphorus	mg/L P	0.10	0.11	0.11	0.10	0.13	0.12	0.13	0.14	0.12	0.13	0.14
Total Phosphorus	mg/L P	0.86	0.80	0.74	0.92	0.26	0.28	0.28	0.34	0.44	0.32	0.34
Escherichia Coliform <sup>2</sup>	MPN/100 mL	430	93	720	150	93	93	23	93	240	43	150
Fecal Coliform <sup>2</sup>	MPN/100 mL	930	930	720	210	93	240	93	93	240	43	210

Weather Conditions during monitoring Winds N at 8 km/hr with 60% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 3.2°C

- Notes: 1) LIMS Reference No: **47704**  
 2) Analysed by contract laboratory  
 3) Red River Floodway at South Floodway Control Gates **734** ft.  
 4) No result due to technician error

Report Compiled By: H.Demchenko  
 Compliance Reporting Technician

Approved in Sample Manager By: C.Diduck  
 Analytical Services Branch Head

Date Compiled: 16-Jan-19

File No: 040-14-09-03-00