

**City of Winnipeg
Water and Waste Department**

2016 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :		October 6, 2016							
		Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59 (S6)	SEINE RIVER @ PROVENCHER BLVD (S7)	STURGEON CREEK @ PERIMETER (S1)	STURGEON CREEK @ PORTAGE AVE (S2)	OMANDS CREEK @ PORTAGE AVE (S4)	LA SALLE RIVER @ HWY 75 (S5)	BUNNS CREEK @ BONNER AVE (S8)	TRURO CREEK @ PORTAGE AVE (S3) ⁴
Temperature	° C	11.8	10.5	8.0	11.1	10.9	11.4	11.2	ns
Dissolved Oxygen	mg/L	9.0	8.8	10.1	7.2	8.1	9.4	4.9	ns
Oxygen Saturation	%	84	79	86	65	73	86	44	ns
Biochemical Oxygen Demand	mg/L	nr ³	nr ³	nr ³	nr ³	nr ³	nr ³	nr ³	ns
pH	units	7.93	7.72	7.68	7.59	7.21	8.16	7.48	ns
Total Solids	mg/L	370	398	1380	976	678	744	780	ns
Total Suspended Solids	mg/L	17	34	9	4	19	41	28	ns
Turbidity	n.t.u.	25.0	33.7	5.8	5.2	16.7	34.1	36.8	ns
Total Organic Carbon	mg/L	21	21	12	12	11	22	22	ns
Chlorophyll a	ug/L	4	21	2	14	7	63	161	ns
Ammonia Nitrogen	mg/L N	<0.003	<0.003	0.020	0.090	0.054	0.020	0.459	ns
Nitrate Nitrogen	mg/L N	<0.003	0.060	0.040	0.272	0.135	0.010	0.475	ns
Total Nitrogen	mg/L N	0.9	1.3	0.4	1.4	0.7	1.6	3.6	ns
Soluble Phosphorus	mg/L P	0.10	0.09	0.02	0.16	0.11	0.29	0.27	ns
Total Phosphorus	mg/L P	0.11	0.21	<0.1	0.20	0.20	0.42	0.56	ns
Escherichia Coliform ²	MPN/100 mL	930	430	23	2400	240	930	2400	ns
Fecal Coliform ²	MPN/100 mL	930	430	43	2400	300	2400	2400	ns

Weather Conditions during monitoring Winds W at 33 km/hr with 100% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 4.1°C

- Notes:
- 1) LIMS Reference No: 47644
 - 2) Analysed by contract laboratory.
 - 3) No result because the initial temperature was outside the BOD test limits
 - 4) No sample due to no flow

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