

**City of Winnipeg
Water and Waste Department**

2016 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	August 24, 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	20.9	19.9	17.8	20.8	19.5	22.5	20.7	ns
Dissolved Oxygen	mg/L	nr ⁵	9.6	8.4	11.3	5.9	9.2	2.9	ns
Oxygen Saturation	%	nr ⁵	105	89	125	64	106	32	ns
Biochemical Oxygen Demand	mg/L	<3	nr ³	<3	nr ³	nr ³	nr ³	nr ³	ns
pH	units	8.08	7.79	7.68	8.18	7.34	7.77	7.64	ns
Total Solids	mg/L	398	428	1210	1060	784	544	634	ns
Total Suspended Solids	mg/L	50	46	<3	<3	4	45	24	ns
Turbidity	n.t.u.	53.2	48.0	3.4	2.8	4.8	54.3	23.6	ns
Total Organic Carbon	mg/L	27	27	18	19	18	27	35	ns
Chlorophyll a	ug/L	4	2	2	4	4	30	89	ns
Ammonia Nitrogen	mg/L N	<0.003	0.017	0.012	0.015	0.199	<0.003	0.920	ns
Nitrate Nitrogen	mg/L N	0.070	0.105	0.020	0.080	0.128	<0.003	0.060	ns
Total Nitrogen	mg/L N	0.4	0.5	<0.2	<0.2	0.2	0.8	3.4	ns
Soluble Phosphorus	mg/L P	0.12	0.14	0.13	0.16	0.27	0.48	0.27	ns
Total Phosphorus	mg/L P	0.17	0.23	0.18	0.22	0.36	0.65	0.58	ns
Escherichia Coliform ²	MPN/100 mL	240	93	93	930	93	23	930	ns
Fecal Coliform ²	MPN/100 mL	240	93	93	930	93	23	930	ns

Weather Conditions during monitoring Winds W at 41 km/hr with 25% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 18.3°C

- Notes:
- 1) LIMS Reference No: 47213
 - 2) Analysed by contract laboratory.
 - 3) No result because the initial DO was below the BOD test limit.
 - 4) No sample due to no flow
 - 5) No result due to instrument malfunction

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