

**City of Winnipeg
Water and Waste Department**

2014 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	September 17, 2014	Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59 (S6)	SEINE RIVER @ PROVENCHE 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)
Temperature	° C	12.1	12.4	11.7	12.5	12.0	13.3	12.3	11.0
Dissolved Oxygen	mg/L	9.6	9.0	10.7	9.7	7.1	9.5	6.1	6.9
Oxygen Saturation	%	90	84	99	91	66	91	57	63
Biochemical Oxygen Demand	mg/L	<3	<3	<3	<3	nr ³	<3	nr ³	nr ³
pH	units	8.39	8.30	8.16	8.38	7.99	8.25	8.15	7.93
Total Solids	mg/L	650	386	1000	1050	1030	424	828	844
Total Suspended Solids	mg/L	36	56	3	11	3	28	125	12
Turbidity	n.t.u.	30.5	42.8	4.5	8.2	3.8	23.3	69.0	13.6
Total Organic Carbon	mg/L	29	28	23	23	25	25	43	25
Chlorophyll a	ug/L	1	3	<1	6	4	17	53	18
Ammonia Nitrogen	mg/L N	0.134	0.042	0.056	0.046	0.063	0.051	0.249	0.106
Nitrate Nitrogen	mg/L N	0.013	0.025	0.009	0.085	0.138	<0.003	0.117	0.012
Total Kjeldahl Nitrogen	mg/L N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5
Total Nitrogen	mg/L N	0.3	0.3	0.3	0.3	0.4	0.3	1.6	0.3
Soluble Phosphorus	mg/L P	0.08	0.08	0.06	0.07	0.06	0.38	0.05	0.04
Total Phosphorus	mg/L P	0.20	0.30	<0.20	<0.20	0.20	0.50	0.40	<0.20
Escherichia Coliform ²	MPN/100 mL	230	43	23	43	93	93	93	2100
Fecal Coliform ²	MPN/100 mL	230	230	23	93	93	93	430	2100

Weather Conditions during monitoring: Winds NE at 20 km/hr with 90% cloud cover and <0.1 mm of precipitation. Average air temperature during survey at 6°C

- Notes: 1) LIMS Reference No: 40477
 2) Analysed by contract laboratory.
 3) No result because the initial temperature was outside the BOD test limit.

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