

**City of Winnipeg
Water and Waste Department**

2013 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	September 25, 2013	Small Streams Sampling Locations							
Parameter	Unit	SEINE RIVER @ HWY 59	SEINE RIVER @ PROVENCHER BLVD	STURGEON CREEK @ PERIMETER	STURGEON CREEK @ PORTAGE AVE	OMANDS CREEK @ PORTAGE AVE.	LA SALLE RIVER @ HWY 75	BUNNS CREEK @ BONNER AVE	TRURO CREEK @ PORTAGE AVE
Temperature	° C	18.3	16.2	16.4	16.6	NS	16.3	NS	NS
Dissolved Oxygen	mg/L	8.4	7.9	9.7	9.7	NS	7.9	NS	NS
Oxygen Saturation ²	%	89	80	99	100	NS	81	NS	NS
pH	units	8.37	7.59	8.17	8.14	NS	8.03	NS	NS
Total Solids	mg/L	438	458	1530	1770	NS	870	NS	NS
Total Suspended Solids	mg/L	14	47	9	<4	NS	24	NS	NS
Turbidity	n.t.u.	18.4	36.3	3.3	2.4	NS	22.6	NS	NS
Total Organic Carbon	mg/L	22	16	11	10	NS	21	NS	NS
Chlorophyll a	ug/L	1	7	NA	2	NS	9	NS	NS
Ammonia Nitrogen	mg/L N	<0.003	<0.003	<0.003	0.031	NS	0.005	NS	NS
Nitrate Nitrogen	mg/L N	<0.003	0.017	<0.003	0.240	NS	0.007	NS	NS
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	NS	NS
Total Nitrogen ²	mg/L N	<2.0	<2.0	<2.0	<2.0	NS	<2.0	NS	NS
Soluble Phosphorus	mg/L P	0.09	0.18	0.03	0.06	NS	0.55	NS	NS
Total Phosphorus	mg/L P	0.90	0.40	<0.30	<0.30	NS	NR	NS	NS
Escherichia Coliform ³	MPN/100 mL	430	93	43	NR	NS	43	NS	NS
Fecal Coliform ³	MPN/100 mL	430	380	43	NR	NS	43	NS	NS

Weather Conditions during monitoring: Winds SSE at 21km/hr with 25% cloud cover and <0.1mm of precipitation. Average air temperature during survey at 21°C

- Notes:
- 1) LIMS Reference No: 37148
 - 2) Calculated values
 - 3) Analysed by contract laboratory.
 - 4) No sample for Bunns Creek at Bonner Avenue, Truro Creek at Portage Avenue, or Omands Creek at Portage Avenue due to no flow.
 - 5) Sturgeon Creek at the perimeter was not analysed for Chlorophyll a because the sample was misplaced.
 - 6) There were no bacti results for Sturgeon Creek at Portage Avenue due to contract lab error.
 - 7) There was no total phosphorus result for La Salle River at Highway 75 because the result was not representative.

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Approved in LIMS By: S.Fletcher
Supervisor of Analytical Services

Date Approved: 18-Oct-13

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