

**City of Winnipeg
Water and Waste Department**

2013 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	October 22, 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	4.4	4.5	3.8	5.6	No Flow	4.5	No Flow	No Flow
Dissolved Oxygen	mg/L	11.5	13.1	13.9	12.4	No Flow	12.2	No Flow	No Flow
Oxygen Saturation ²	%	88	101	105	98	No Flow	94	No Flow	No Flow
pH	units	8.31	8.20	8.50	8.39	No Flow	8.56	No Flow	No Flow
Total Solids	mg/L	404	466	1590	1380	No Flow	948	No Flow	No Flow
Total Suspended Solids	mg/L	7	27	21	<4	No Flow	17	No Flow	No Flow
Turbidity	n.t.u.	14.9	24.4	13.2	3.5	No Flow	11.7	No Flow	No Flow
Total Organic Carbon	mg/L	NA	NA	NA	NA	No Flow	NA	No Flow	No Flow
Chlorophyll a	ug/L	2	14	2	2	No Flow	12	No Flow	No Flow
Ammonia Nitrogen	mg/L N	0.007	0.015	0.026	0.032	No Flow	0.012	No Flow	No Flow
Nitrate Nitrogen	mg/L N	0.004	0.006	0.015	0.353	No Flow	0.029	No Flow	No Flow
Total Kjeldahl Nitrogen	mg/L N	<2.0	NR	<2.0	<2.0	No Flow	<2.0	No Flow	No Flow
Total Nitrogen ²	mg/L N	<2.0	NR	<2.0	<2.0	No Flow	<2.0	No Flow	No Flow
Soluble Phosphorus	mg/L P	0.09	0.21	0.01	0.03	No Flow	0.28	No Flow	No Flow
Total Phosphorus	mg/L P	<0.30	NR	<0.30	<0.30	No Flow	0.50	No Flow	No Flow
Escherichia Coliform ³	MPN/100 mL	7	230	230	230	No Flow	93	No Flow	No Flow
Fecal Coliform ³	MPN/100 mL	43	230	230	230	No Flow	93	No Flow	No Flow

Weather Conditions during monitoring: Winds NW at 23 km/hr with 95% cloud cover and no precipitation. Average air temperature during survey at 2°C

<p>Notes:</p> <ol style="list-style-type: none"> 1) LIMS Reference No: 37418 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) Total Organic Carbon was not analysed due to sample hold time exceedence. 6) There was no result for Total Kjeldahl Nitrogen, Total Nitrogen, and Total Phosphorus for Seine River at Provencher Boulevard due to technician error. 	<p>Report Compiled By: <u>H.Demchenko</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>S.Fletcher</u> Supervisor of Analytical Services</p> <p>Date Approved: <u>20-Nov-13</u></p> <p>File No: 040-14-09-03-00</p>
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