

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	September 21, 2010	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	10.9	11.4	NS	11.4	12.2	11.9	12.2	11.2
Dissolved Oxygen	mg/L	10.2	9.1	NS	9.9	8.5	9.8	8.1	9.6
Oxygen Saturation ²	%	92	83	NS	91	80	91	76	87
pH	units	8.12	7.93	NS	7.86	7.95	7.77	8.02	7.84
Total Solids	mg/L	384	472	NS	524	700	396	656	752
Total Suspended Solids	mg/L	36	29	NS	38	20	18	24	9
Turbidity	n.t.u.	29.6	27.1	NS	33.1	17.0	23.9	16.5	7.75
Total Organic Carbon	mg/L	16	16	NS	22	20	25	16	17
Chlorophyll a	ug/L	2	7	NS	14	<1	7	66	2
Ammonia Nitrogen	mg/L N	<0.003	0.030	NS	0.238	0.178	0.020	0.055	<0.003
Nitrate Nitrogen	mg/L N	0.025	0.145	NS	0.132	0.626	0.155	0.094	0.116
Total Kjeldahl Nitrogen	mg/L N	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Total Nitrogen ²	mg/L N	<2.0	<2.0	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.11	0.14	NS	0.48	0.18	0.59	0.07	0.10
Total Phosphorus	mg/L P	<0.30	<0.30	NS	0.60	0.30	0.80	0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	93	430	NS	9300	93	38	430	28
Fecal Coliform ³	MPN/100 mL	230	430	NS	9300	230	75	430	430

Weather Conditions during monitoring: Winds NW at 28 km/hr with 100% cloud cover and 1 mm of precipitation. Average air temperature during survey at 9°C

<p>Notes: 1) LIMS Reference No: 27425 2) Calculated values 3) Analysed by contract laboratory. 4) There is no sample at Sturgeon Creek at the Perimeter because the sample location was not accessible.</p>	<p>Report Compiled By: <u>J. Jones</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>S. Fletcher</u> Supervisor of Analytical Services</p> <p>Date Approved: <u>29-Sep-10</u></p> <p>File No: 040-14-09-03-00</p>
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