

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : November 17, 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	1.6	2.0	NS	2.1	1.6	3.2	2.9	1.7
Dissolved Oxygen	mg/L	15.3	14.7	NS	15.1	14.5	13.3	12.9	14.4
Oxygen Saturation ²	%	109	106	NS	109	104	99	96	103
pH	units	8.23	8.12	NS	8.07	8.12	7.95	7.95	7.99
Total Solids	mg/L	404	476	NS	892	1130	508	940	1130
Total Suspended Solids	mg/L	21	19	NS	14	13	23	15	6
Turbidity	n.t.u.	16.9	21.6	NS	14.2	15.0	20.2	7.06	8.87
Total Organic Carbon	mg/L	11	11	NS	14	10	16	10	11
Chlorophyll a	ug/L	2	3	NS	5	5	6	32	2
Ammonia Nitrogen	mg/L N	<0.003	<0.003	NS	0.040	0.011	0.049	0.009	<0.003
Nitrate Nitrogen	mg/L N	0.042	0.082	NS	0.530	1.460	1.300	0.232	0.150
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	2.1	NS	<2.0	2.5	3.3	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.05	0.06	NS	0.17	0.11	0.29	0.05	0.06
Total Phosphorus	mg/L P	<0.30	<0.30	NS	<0.30	<0.30	0.50	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	43	930	NS	230	9300	23	230	430
Fecal Coliform ³	MPN/100 mL	43	930	NS	230	9300	23	230	430

Weather Conditions during monitoring: Winds NNW at 22 km/hr with 90% cloud cover and 3 mm of precipitation. Average air temperature during survey at -4.5°C

- Notes:
- 1) LIMS Reference No: 27940
 - 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.

Report Compiled By: J. Jones
Compliance Reporting Technician

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

Date Approved: 22-Nov-10

File No: 040-14-09-03-00