

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	September 8, 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	13.6	14.1	NS	13.9	13.2	15.0	16.0	12.2
Dissolved Oxygen	mg/L	10.1	7.6	NS	7.4	7.7	9.3	9.3	7.2
Oxygen Saturation ²	%	98	92	NS	88	74	93	94	79
pH	units	7.45	7.61	NS	7.35	6.90	7.05	7.65	7.23
Total Solids	mg/L	324	324	NS	328	380	300	580	464
Total Suspended Solids	mg/L	92	49	NS	76	5	85	14	7
Turbidity	n.t.u.	57.8	39.4	NS	53.7	10.8	64.0	15.7	7.44
Total Organic Carbon	mg/L	20	20	NS	24	26	23	16	22
Chlorophyll a	ug/L	2	5	NS	5	2	4	32	3
Ammonia Nitrogen	mg/L N	<0.003	0.027	NS	0.012	0.025	0.070	0.048	<0.003
Nitrate Nitrogen	mg/L N	0.045	0.101	NS	0.502	0.139	0.251	0.130	0.042
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	0.24	0.27	NS	0.51	0.49	0.58	0.11	0.18
Total Phosphorus	mg/L P	0.50	0.50	NS	0.80	0.70	0.90	0.50	0.40
Escherichia Coliform ³	MPN/100 mL	230	930	NS	230	210	43	430	750
Fecal Coliform ³	MPN/100 mL	230	930	NS	430	210	43	430	750

Weather Conditions during monitoring: Winds NW at 6 km/hr with 42% cloud cover. Average air temperature during survey at 16°C

- Notes:
- 1) LIMS Reference No: 27316
 - 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.

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