

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	October 6, 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	12.0	12.2	NS	12.9	11.1	13.0	12.4	12.8
Dissolved Oxygen	mg/L	9.5	7.4	NS	10.0	9.1	8.0	6.3	9.1
Oxygen Saturation ²	%	89	70	NS	95	83	76	59	86
pH	units	7.94	7.61	NS	7.98	7.84	7.64	7.52	8.00
Total Solids	mg/L	324	372	NS	800	668	332	768	812
Total Suspended Solids	mg/L	32	34	NS	25	<4	12	20	8
Turbidity	n.t.u.	29.3	31.1	NS	21.2	4.19	18.0	15.3	14.0
Total Organic Carbon	mg/L	15	15	NS	18	15	17	13	15
Chlorophyll a	ug/L	2	4	NS	19	6	11	47	4
Ammonia Nitrogen	mg/L N	<0.003	<0.003	NS	0.014	<0.003	<0.003	0.016	0.006
Nitrate Nitrogen	mg/L N	0.014	0.046	NS	0.206	0.010	0.140	0.137	0.341
Total Kjeldahl Nitrogen	mg/L N	4.0	3.0	NS	4.0	4.0	4.0	3.0	<2.0
Total Nitrogen ²	mg/L N	4.0	3.0	NS	4.2	4.0	4.1	3.1	<2.0
Soluble Phosphorus	mg/L P	0.12	0.17	NS	0.54	0.13	0.48	0.06	0.25
Total Phosphorus	mg/L P	<0.30	<0.30	NS	0.60	<0.30	0.50	<0.30	<0.30
Escherichia Coliform ³	MPN/100 mL	43	23	NS	4300	93	21	93	430
Fecal Coliform ³	MPN/100 mL	43	23	NS	4300	93	93	93	430

Weather Conditions during monitoring: Winds SW at 21 km/hr with 10% cloud cover. Average air temperature during survey at 12.4°C

- Notes:
- 1) LIMS Reference No: 27549
 - 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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Approved in LIMS By: S. Fletcher
Supervisor of Analytical Services

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