

**City of Winnipeg
Water and Waste Department**

2009 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ : May 20, 2009		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	10.1	10.4	9.4	10.0	9.4	10.2	10.7	8.6
Dissolved Oxygen	mg/L	10.5	10.6	9.7	10.6	10.3	9.2	10.0	11.1
Oxygen Saturation ²	%	93	95	85	94	90	82	90	95
pH	units	8.29	7.98	8.02	8.10	7.97	7.83	8.28	7.98
Total Solids	mg/L	408	480	500	544	680	352	756	524
Total Suspended Solids	mg/L	73	19	24	24	8	30	5	<4
Turbidity	n.t.u.	59.0	15.6	27.8	29.1	10.5	39.0	4.8	2.1
Total Organic Carbon	mg/L	17	16	22	21	22	20	17	18
Chlorophyll a	ug/L	2	59	6	6	6	9	35	4
Ammonia Nitrogen	mg/L N	0.203	0.036	0.077	0.083	0.045	0.651	0.023	0.023
Nitrate Nitrogen	mg/L N	0.170	2.251	0.400	0.667	1.474	3.369	0.206	0.031
Total Kjeldahl Nitrogen	mg/L N	<2.0	nr	<2.0	<2.0	2.8	4.4	2.7	2.0
Total Nitrogen ²	mg/L N	<2.0	2.3	2.0	2.6	4.3	7.8	2.9	2.1
Soluble Phosphorus	mg/L P	0.15	0.22	0.32	0.32	0.24	0.43	0.13	0.12
Total Phosphorus	mg/L P	<0.3	0.30	0.40	0.40	0.30	0.50	<0.3	<0.3
Escherichia Coliform ³	MPN/100 mL	79	8	7	49	17	22	130	4
Fecal Coliform ³	MPN/100 mL	79	13	7	79	17	22	130	4

Weather Conditions during monitoring: Winds E at 28 km/hr with 75 % cloud cover . Average air temperature during survey at 9 °C

Notes: 1) LIMS Reference No: 23044
 2) Calculated values
 3) Analysed by contract laboratory.
 4) No results for TKN for Seine river @ Provencher due to lab error. Results for Total Nitrogen for this sample calculated from Nitrate only.

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Date Approved: 6/22/09

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