

**City of Winnipeg
Water and Waste Department**

2010 SMALL STREAMS SURVEY MONITORING REPORT

Survey Date ¹ :	July 16, 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	20.5	20.3	NS	21.2	20.5	21.8	19.3	19.3
Dissolved Oxygen	mg/L	7.2	5.9	NS	8.3	7.8	6.5	5.4	8.3
Oxygen Saturation ²	%	81	66	NS	94	87	74	59	90
pH	units	7.99	7.67	NS	8.09	NR	7.74	7.65	NR
Total Solids	mg/L	408	424	NS	724	596	532	572	408
Total Suspended Solids	mg/L	81	146	NS	26	5	123	49	<4
Turbidity	n.t.u.	NR	NR	NS	NR	NR	NR	NR	NR
Total Organic Carbon	mg/L	16	10	NS	12	9	12	9	13
Chlorophyll a	ug/L	18	25	NS	74	3	14	11	7
Ammonia Nitrogen	mg/L N	<0.003	0.033	NS	<0.003	0.006	0.087	0.044	<0.003
Nitrate Nitrogen	mg/L N	0.208	0.307	NS	0.143	0.005	0.296	0.245	0.026
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	2.3	<2.0	<2.0
Soluble Phosphorus	mg/L P	0.18	0.17	NS	0.26	0.21	0.43	0.15	0.33
Total Phosphorus	mg/L P	0.40	0.60	NS	0.50	0.40	0.80	0.40	0.50
Escherichia Coliform ³	MPN/100 mL	1500	930	NS	230	430	430	2100	930
Fecal Coliform ³	MPN/100 mL	1500	930	NS	430	430	430	2100	930

Weather Conditions during monitoring: Winds W at 36 km/hr with 54% cloud cover. Average air temperature during survey at 21.3°C

<p>Notes: 1) LIMS Reference No: 26754 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. 5) There are no turbidity results due to a technician error. 6) There are no pH results for Omands Creek at Portage Ave. and Truro Creek at Portage Ave. due to an instrument error.</p>	<p>Report Compiled By: <u>J. Jones</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>G. Levesque</u> Supervisor of Analytical Services (Acting)</p> <p>Date Approved: <u>28-Jul-10</u></p> <p>File No: 040-14-09-03-00</p>
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