

**City of Winnipeg
Water and Waste Department**

2011 SMALL STREAMS SURVEY MONITORING REPORT

| Survey Date ¹ : | June 29, 2011 | 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 ⁵ |
| Temperature | ° C | 18.8 | 20.4 | NS | 20.1 | 20.1 | 21.1 | 19.2 | NS |
| Dissolved Oxygen | mg/L | 8.3 | 8.0 | NS | 8.3 | 12.0 | 7.1 | 6.3 | NS |
| Oxygen Saturation ² | % | 90 | 90 | NS | 92 | 133 | 81 | 69 | NS |
| pH | units | 8.28 | 8.03 | NS | 8.26 | 9.05 | 7.98 | 8.95 | NS |
| Total Solids | mg/L | 488 | 908 | NS | 564 | 844 | 628 | 1120 | NS |
| Total Suspended Solids | mg/L | 144 | 18 | NS | 56 | <4 | 63 | 39 | NS |
| Turbidity | n.t.u. | 119 | 14.0 | NS | 32.3 | 2.65 | 30.1 | 31.3 | NS |
| Total Organic Carbon | mg/L | 22 | 19 | NS | 22 | 20 | 21 | 17 | NS |
| Chlorophyll a | ug/L | 7 | 39 | NS | 18 | <1 | 20 | 5 | NS |
| Ammonia Nitrogen | mg/L N | 0.012 | 0.024 | NS | 0.013 | <0.003 | 0.091 | 0.094 | NS |
| Nitrate Nitrogen | mg/L N | 0.216 | 3.840 | NS | 0.246 | 0.006 | 13.100 | 0.155 | NS |
| Total Kjeldahl Nitrogen | mg/L N | <2.0 | <2.0 | NS | <2.0 | <2.0 | <2.0 | <2.0 | NS |
| Total Nitrogen ² | mg/L N | <2.0 | 5.0 | NS | <2.0 | <2.0 | 14 | <2.0 | NS |
| Soluble Phosphorus | mg/L P | 0.09 | 0.16 | NS | 0.44 | 0.56 | 0.43 | 0.18 | NS |
| Total Phosphorus | mg/L P | <0.30 | <0.30 | NS | 0.60 | 0.60 | 0.50 | <0.30 | NS |
| Escherichia Coliform ³ | MPN/100 mL | 75 | 230 | NS | 930 | 430 | 93 | 430 | NS |
| Fecal Coliform ³ | MPN/100 mL | 150 | 230 | NS | 2300 | 430 | 93 | 430 | NS |

Weather Conditions during monitoring: Winds SSE at 30 km/hr with 60% cloud cover. Average air temperature during survey at 18°C.

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| <p>Notes:</p> <ol style="list-style-type: none"> 1) LIMS Reference No: 29887 2) Calculated values. Oxygen saturation data was revised on May 15, 2012. 3) Analysed by contract laboratory. 4) There is no sample at Sturgeon Creek at the Perimeter due to construction. 5) There is no sample at Truro Creek at Portage Ave. because the location was not accessible. | <p>Report Compiled By: <u>J. Jones</u> Compliance Reporting Technician</p> <p>Approved in LIMS By: <u>S. Fletcher</u> Supervisor of Analytical Services</p> <p>Date Approved: <u>15-May-12</u></p> <p>File No: 040-14-09-03-00</p> |
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