

Drinking-Water Systems Regulation O. Reg. 170/03

Annual Report

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| Drinking-Water System Number: | 220001307 |
| Drinking-Water System Name: | Smiths Falls Water Treatment Plant |
| Drinking-Water System Owner: | Corp. of the Town of Smiths Falls |
| Drinking-Water System Category: | Large Municipal Drinking Water System |
| Period being reported: | January 1 st , to December 31 st , 2006 |

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| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [*]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [*] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> Smiths Falls Town Hall Water Treatment Plant Water Pollution Control Plant Montague Township Complex. </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 80px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input style="width: 80px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p> |
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|----------------------------|------------------------------|
| Part of Montage Township | 260006828 |

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [*] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

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- [*] Public access/notice via the web
- [*] Public access/notice via Government Office
- [*] Public access/notice via a newspaper
- [*] Public access/notice via Public Request
- [*] Public access/notice via a Public Library
- [] Public access/notice via other method _____

Describe your Drinking-Water System

The Water Treatment Plant is a Surface Water Treatment Plant receiving its water by gravity from the Rideau River. It is a subsystem Class III Conventional Treatment Surface Water Treatment Plant consisting of flash mixing, coagulation, flocculation clarification (settling) , filtration, disinfection by chlorine gas and fluoridation.

The distribution system is a Subsystem Class I and consists of 62.23 Kl of mains, 1096 valves, 332 hydrants and 3010 house services.. With a 160 foot water tower that contains 945.75 m3 of storage.

List all water treatment chemicals used over this reporting period

Chlorine Gas, Pass C coagulant, Hydrofluosilicic Acid (HFS)

Were any significant expenses incurred to?

- [*] Install required equipment
- [*] Repair required equipment
- [*] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

- Tower Inspection - \$6000.00
- Installation of new tower air vent - \$8800.00
- Repairs to street valves, hydrants, mains and services
- High Lift Pump rebuild – \$15,000.00
- Lo Lift Pump rebuild - \$3000.00

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

| Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action Date |
|---------------|----------------|--------|-----------------|-------------------|------------------------|
| July 04/06 | THM's | 106 | Ug/l | Non Required | July 04/06 |
| Nov.11/06 | Total Coliform | P | | Re-Sample | Nov. 16/04 |

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Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

| | Number of Samples | Range of E.Coli Or Fecal Results (min #)-(max #) <2 to 18 | Range of Total Coliform Results (min #)-(max #) 4 to 650 | Number of HPC Samples | Range of HPC Results (min #)-(max #) |
|---------------------|-------------------|--|---|-----------------------|--------------------------------------|
| Raw | 52 | 45 | 7 | NA | NA |
| Treated | 52 | 0 | 0 | 52 | <10 to 90 |
| Distribution | 339 | 0 | 0 | 366 | <10 to 200 |

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

| | Number of Grab Samples | Range of Results (min #)-(max #) |
|--|------------------------|----------------------------------|
| Turbidity | 8760 | 0.06 to 0.21 FTU |
| Free Chlorine | 8760 | 0.90 to 3.75 mg/l |
| Fluoride (If the DWS provides fluoridation) | 364 | Average 0.65 mg/l |

NOTE: For continuous monitors use 8760 as the number of samples.

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

| Date of legal instrument issued | Parameter | Date Sampled | Result | Quarterly Rolling Averages | Unit of Measure |
|--|-----------|--------------|--------------|----------------------------|-----------------|
| Jan. 14/2004 CofA # 4851-5cskfe | | Jan | 139.0 | | Ug/l |
| | | Feb | 44.8 | | |
| | | Mar | 79.9 | 97.2 | Ug/l |
| | | Apr | 164.0 | | |
| | | May | 189.0 | | |
| | | Jun | 96.0 | 106.3 | Ug/l |
| | | Jul | 84.4 | | |
| | | Aug | 63.9 | | |
| | | Sept | 42.6 | 96.3 | Ug/l |
| | | Oct | 33.5 | | |
| | | Nov | 57.7 | | |
| | | Dec | 53.7 | 87.4 | Ug/l |

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|----------------------|-------------|--------------|-----------------|------------|
| Antimony | March 13/06 | .001 | mg/l | No |
| Arsenic | March 13/06 | .001 | mg/l | No |
| Barium | March 13/06 | .041 | mg/l | No |
| Boron | March 13/06 | .012 | mg/l | No |
| Cadmium | March 13/06 | .0001 | mg/l | No |
| Chromium | March 13/06 | .002 | mg/l | No |
| Lead | March 13/06 | .0058 | mg/l | No |
| Mercury | March 13/06 | .00006 | mg/l | No |
| Selenium | March 13/06 | .002 | mg/l | No |
| Sodium | March 13/06 | 8.6 | mg/l | No |
| Uranium | March 13/06 | .001 | mg/l | No |
| Fluoride | March 13/06 | .4 | mg/l | No |
| Nitrite | March 13/06 | .1 | mg/l | No |
| Nitrate | March 13/06 | .1 | mg/l | No |
| Nitrate | March 13/06 | .1 | mg/l | No |
| Nitrate +Nitrite (N) | March 13/06 | .1 | mg/l | No |

Summary of Organic parameters sampled during this reporting period or the most recent sample results

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--------------------------------------|-------------|--------------|-----------------|------------|
| Alachlor | March 13/06 | 0.3 | Ug/l | No |
| Aldicarb | March 13/06 | 3.0 | Ug/l | No |
| Aldrin + Dieldrin | March 13/06 | 0.02 | Ug/l | No |
| Atrazine + N-dealkylated metabolites | March 13/06 | 0.05 | Ug/l | No |
| Azinphos-methyl | March 13/06 | 1.0 | Ug/l | No |
| Bendiocarb | March 13/06 | 3.0 | Ug/l | No |
| Benzene | March 13/06 | 0.5 | Ug/l | No |
| Benzo(a)pyrene | March 13/06 | 0.0005 | Ug/l | No |
| Bromoxynil | March 13/06 | 0.3 | Ug/l | No |
| Carbaryl | March 13/06 | 3.0 | Ug/l | No |
| Carbofuran | March 13/06 | 1.0 | Ug/l | No |
| Carbon Tetrachloride | March 13/06 | 0.2 | Ug/l | No |
| Chlordane (Total) | March 13/06 | 0.04 | Ug/l | No |
| Chlorpyrifos | March 13/06 | 0.5 | Ug/l | No |
| Cyanazine | March 13/06 | 0.5 | Ug/l | No |
| Diazinon | March 13/06 | 1.0 | Ug/l | No |
| Dicamba | March 13/06 | 5.0 | Ug/l | No |
| 1,2-Dichlorobenzene | March 13/06 | 0.1 | Ug/l | No |

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|--|-------------|------|------|----|
| 1,4-Dichlorobenzene | March 13/06 | 0.2 | Ug/l | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | March 13/06 | 0.1 | Ug/l | No |
| 1,2-Dichloroethane | March 13/06 | 0.1 | Ug/l | No |
| 1,1-Dichloroethylene (vinylidene chloride) | March 13/06 | 0.1 | Ug/l | No |
| Dichloromethane | March 13/06 | 0.3 | Ug/l | No |
| 2-4 Dichlorophenol | March 13/06 | 0.1 | Ug/l | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | March 13/06 | 5.0 | Ug/l | No |
| Diclofop-methyl | March 13/06 | 0.4 | Ug/l | No |
| Dimethoate | March 13/06 | 1.0 | Ug/l | No |
| Dinoseb | March 13/06 | 0.5 | Ug/l | No |
| Diquat | March 13/06 | 5.0 | Ug/l | No |
| Diuron | March 13/06 | 5.0 | Ug/l | No |
| Glyphosate | March 13/06 | 25.0 | Ug/l | No |
| Heptachlor + Heptachlor Epoxide | March 13/06 | 0.1 | Ug/l | No |
| Lindane (Total) | March 13/06 | 0.1 | Ug/l | No |
| Malathion | March 13/06 | 5.0 | Ug/l | No |
| Methoxychlor | March 13/06 | 0.1 | Ug/l | No |
| Metolachlor | March 13/06 | 3.0 | Ug/l | No |
| Metribuzin | March 13/06 | 3.0 | Ug/l | No |
| Monochlorobenzene | March 13/06 | 0.2 | Ug/l | No |
| Paraquat | March 13/06 | 1.0 | Ug/l | No |
| Parathion | March 13/06 | 3.0 | Ug/l | No |
| Pentachlorophenol | March 13/06 | 0.1 | Ug/l | No |
| Phorate | March 13/06 | 0.1 | Ug/l | No |
| Picloram | March 13/06 | 5.0 | Ug/l | No |
| Polychlorinated Biphenyls(PCB) | March 13/06 | 0.05 | Ug/l | No |
| Prometryne | March 13/06 | 0.1 | Ug/l | No |
| Simazine | March 13/06 | 0.5 | Ug/l | No |
| THM (NOTE: show latest annual average) | March 13/06 | 87.4 | Ug/l | No |
| Temephos | March 13/06 | 10.0 | Ug/l | No |
| Terbufos | March 13/06 | 0.3 | Ug/l | No |
| Tetrachloroethylene | March 13/06 | 0.2 | Ug/l | No |
| 2,3,4,6-Tetrachlorophenol | March 13/06 | 0.1 | Ug/l | No |
| Triallate | March 13/06 | 10.0 | Ug/l | No |
| Trichloroethylene | March 13/06 | 0.1 | Ug/l | No |
| 2,4,6-Trichlorophenol | March 13/06 | 0.1 | Ug/l | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | March 13/06 | 10.0 | Ug/l | No |
| Trifluralin | March 13/06 | 0.5 | Ug/l | No |
| Vinyl Chloride | March 13/06 | 0.2 | Ug/l | No |

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List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

| Parameter | Result Value | Unit of Measure | Date of Sample |
|-----------|--------------|-----------------|----------------|
| Lead | 0.0058 | Mg/l | March 13/06 |

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)