

Part III Form 2
Section 11. ANNUAL REPORT.

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|---------------------------------|--|
| Drinking-Water System Number: | 260003162 |
| Drinking-Water System Name: | Stouffville Distribution System |
| Drinking-Water System Owner: | Town of Whitchurch-Stouffville |
| Drinking-Water System Category: | Water Distribution Sub-System – Class 1 |
| Period being reported: | January 1 st , 2009 to December 31 st , 2009 |

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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 <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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;"> <p>Town of Whitchurch-Stouffville Public Works Department 37 Sandiford Drive, 4th Floor Stouffville, Ontario www.townofws.com/TOWN_Publicwater.asp</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input 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 <input type="checkbox"/> No <input type="checkbox"/></p> |
|---|---|

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 |
|----------------------------|------------------------------|
| None – Not Applicable | |

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 Not Applicable

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

- 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 Town of Whitchurch-Stouffville owns and operates the Stouffville Water Distribution System. In 2009, it serviced approximately 18,000 residents and businesses located in the Community of Stouffville.

At present this assumed water system infrastructure consists of approximately 113 kilometers of various size watermains, 800+ watermain valves and 800+ hydrants.

The safe operation and maintenance of this system is the responsibility of the Town's Public Works Department. Staff is certified in accordance with the Ministry of the Environment of Ontario (MOE) requirements. Activities generally include watermain break repairs, valve exercising and repairs, fire hydrant maintenance, water locate stakeouts and water sampling.

Town staff routinely collects samples throughout the system to ensure that water quality meets provincial standards. The samples are sent to the York-Durham Regional Laboratory, an MOE accredited facility, where microbiological, organic and inorganic tests are performed. In addition to these analyses, the Public Works Department ensures the delivery of safe water by checking for the presence of chlorine residuals in the system on a daily basis. The system is flushed at routine intervals (weekly and monthly at designated locations and the entire system semi-annually) to ensure water quality. For more information on this practice contact the Public Works Department.

In 2009 The Region of York completed the physical construction of a transmission watermain and appurtenances from the Region's Markham reservoir to the Community of Stouffville water distribution system and commenced the commissioning of this system. It is anticipated that the community of Stouffville will commence accepting water from this new supply in 2010. This additional source of water is necessary to accommodate further growth within this community. The Region's 2.1 km transmission watermain was constructed along Stouffville Road from the reservoir located at the south-east corner of Stouffville Road and McCowan Road and connected to the distribution system at the intersection of Highway 48 and Main Street. The water for this supply originates at Lake Ontario and currently services southern York Region municipalities. The lake (surface) water will create a mixed or blended water supply for the Community of Stouffville once introduced to the well water supply presently servicing the Community of Stouffville. Water treatment for this supply is provided by the Region of York by means of Chlorination which is the present means of disinfection for the Stouffville water distribution system.

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

The well water supply to the Stouffville Distribution System is the responsibility of the Regional Municipality of York. Currently the Region owns, operates and maintains in accordance with MOE requirements, five (5) ground production wells and three (3) sites, a ground level reservoir and two (2) elevated storage tanks, of which one (1) the Bethesda Road elevated storage tank location was brought on-line in November of 2006.

For further information on the The Town of Whitchurch-Stouffville water distribution systems refer to the annual water summary report.

For additional information, contact the Regional Municipality of York, Water and Wastewater Branch, 17250 Yonge Street, Newmarket, Ontario, L3Y 6Z1, telephone – 905-895-1200 or visit their website at www.region.york.on.ca

List all water treatment chemicals used over this reporting period

Not Applicable
 No chemicals introduced in the distribution system
 Treatment chemicals introduced at source(s) only by Region of York

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

Park Drive – water distribution system upgrading - \$304,083.00

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 |
|-------------------------------|----------------|----------------------------|---------------------|-------------------|-------------------------------|
| March 11 th , 2009 | Sodium | Phys/Chem exceeds standard | 20.8mg/L | Flush & Resample | April 7 th , 2009 |
| March 11 th , 2009 | Sodium | Phys/Chem exceeds standard | 34.6mg/L | Flush & Resample | April 7 th , 2009 |
| March 11 th , 2009 | Sodium | Phys/Chem exceeds standard | 24.2mg/L | Flush & Resample | April 7 th , 2009 |
| March 11 th , 2009 | Sodium | Phys/Chem exceeds standard | 34.8mg/L | Flush & Resample | April 7 th , 2009 |
| March 29 th , 2009 | Total Coliform | Present using P/A test | P/A/100ml confirmed | Flush & Resample | March 30 th , 2009 |

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

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|--------------------------------|----------------|----------------------------|---------------------|------------------|--------------------------------|
| April 6 th , 2009 | Total Coliform | Present using P/A test | P/A/100ml confirmed | Flush & Resample | April 8 th , 2009 |
| April 9 th , 2009 | Lead as Pb | Phys/Chem exceeds standard | 0.0019mg/L | Flush & Resample | April 21 st , 2009 |
| August 26 th , 2009 | Total Coliform | Present using P/A test | P/A/100ml confirmed | Flush & Resample | August 27 th , 2009 |
| October 7 th , 2009 | Total Coliform | Present using P/A test | P/A/100ml confirmed | Flush & Resample | October 8 th , 2009 |

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 #) | Range of Total Coliform Results (min #)-(max #) | Number of HPC Samples | Range of HPC Results (min #)-(max #) |
|--------------|-------------------|--|---|-----------------------|--------------------------------------|
| Raw | | | | | |
| Treated | | | | | |
| Distribution | 755 | 0 - 0 | 0 - P | 401 | <1 - 23 |

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 | | |
| Chlorine | 2493 | (0.26) - (1.72) |
| Fluoride (If the DWS provides fluoridation) | | |

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 | Unit of Measure |
|---------------------------------|-----------|--------------|--------|-----------------|
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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 | | | | |
| Arsenic | | | | |

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|----------|-------------------------------|--------|------|--|
| Barium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Chromium | | | | |
| Lead | April 21, 2009 | 0.0009 | mg/L | |
| Mercury | | | | |
| Selenium | | | | |
| Sodium | March 25 th , 2009 | 35.1 | mg/L | |
| Uranium | | | | |
| Fluoride | | | | |
| Nitrite | | | | |
| Nitrate | March 25 th , 2009 | 1.86 | mg/L | |

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 | | | | |
| Aldicarb | | | | |
| Aldrin + Dieldrin | | | | |
| Atrazine + N-dealkylated metabolites | | | | |
| Azinphos-methyl | | | | |
| Bendiocarb | | | | |
| Benzene | | | | |
| Benzo(a)pyrene | | | | |
| Bromoxynil | | | | |
| Carbaryl | | | | |
| Carbofuran | | | | |
| Carbon Tetrachloride | | | | |
| Chlordane (Total) | | | | |
| Chlorpyrifos | | | | |
| Cyanazine | | | | |
| Diazinon | | | | |
| Dicamba | | | | |
| 1,2-Dichlorobenzene | | | | |
| 1,4-Dichlorobenzene | | | | |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | | | | |
| 1,2-Dichloroethane | | | | |
| 1,1-Dichloroethylene (vinylidene chloride) | | | | |
| Dichloromethane | | | | |
| 2,4-Dichlorophenol | | | | |

| | | | | |
|--|----------------------------------|----|------|--|
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | | | | |
| Diclofop-methyl | | | | |
| Dimethoate | | | | |
| Dinoseb | | | | |
| Diquat | | | | |
| Diuron | | | | |
| Glyphosate | | | | |
| Heptachlor + Heptachlor Epoxide | | | | |
| Lindane (Total) | | | | |
| Malathion | | | | |
| Methoxychlor | | | | |
| Metolachlor | | | | |
| Metribuzin | | | | |
| Monochlorobenzene | | | | |
| Paraquat | | | | |
| Parathion | | | | |
| Pentachlorophenol | | | | |
| Phorate | | | | |
| Picloram | | | | |
| Polychlorinated Biphenyls(PCB) | | | | |
| Prometryne | | | | |
| Simazine | | | | |
| THM (NOTE: show latest annual average) | November 18 th , 2009 | 21 | ug/L | |
| Temephos | | | | |
| Terbufos | | | | |
| Tetrachloroethylene | | | | |
| 2,3,4,6-Tetrachlorophenol | | | | |
| Triallate | | | | |
| Trichloroethylene | | | | |
| 2,4,6-Trichlorophenol | | | | |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | | | | |
| Trifluralin | | | | |
| Vinyl Chloride | | | | |

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 |
|-----------|--------------|-----------------|----------------|
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(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)