



**OPTIONAL ANNUAL REPORT TEMPLATE**

|  |                                      |
|--|--------------------------------------|
| <b>Drinking-Water System Number:</b>   | 220002743                            |
| <b>Drinking-Water System Name:</b>     | Airport Drinking Water System        |
| <b>Drinking-Water System Owner:</b>    | County of Brant                      |
| <b>Drinking-Water System Category:</b> | Large Municipal - Residential        |
| <b>Period being reported:</b>          | January 1, 2009 to December 31, 2009 |

|   |  |   |  |  |
|---|--|---|--|--|
| <p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <table border="1" style="width: 100%;"> <tr> <td>                 County of Brant Administration Office<br/>                 26 Park Ave.<br/>                 Burford, Ontario<br/>                 NOE 1A0             </td> </tr> </table> | County of Brant Administration Office<br>26 Park Ave.<br>Burford, Ontario<br>NOE 1A0 | <p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="height: 20px;"></td> </tr> </table> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 100px; height: 20px;"></td> </tr> </table> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></p> |  |  |
| County of Brant Administration Office<br>26 Park Ave.<br>Burford, Ontario<br>NOE 1A0  |  |   |  |  |
|   |  |   |  |  |
|   |  |   |  |  |

**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                       |                              |

**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.

- 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: Notice in water bill

**Describe your Drinking-Water System**

The Airport water supply system consists of:

- a) one drilled well completed in the overburden equipped with a vertical turbine pump capable of pumping 26.6 l/s.;
- b) a sodium hypochlorite dosing system to provide disinfection via chlorination;
- c) a 423 m<sup>3</sup> single cell baffled water storage reservoir;
- d) a high lift pump station with two 9.5 l/s normal duty pumps and two 47.3 l/s fire duty pumps and a 63.1 l/s emergency standby pump; and
- e) the distribution system that services approx. 219 residences and 21 commercial accounts.

Emergency standby power is provided via motors direct coupled to the well pump and emergency standby high lift pump.

All equipment is located at 9 Airport Road, which is near the Brantford Airport. The surrounding land use is light industrial.

**List all water treatment chemicals used over this reporting period**

12 % Sodium Hypochlorite Solution

**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**

No significant expenses incurred during reporting period.



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 |
|---------------|-----------|--------|-----------------|-------------------|------------------------|
| None          |           |        |                 |                   |                        |

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 (cfu/100ml) | Range of Total Coliform Results (cfu/100ml) | Range of BKG Results (cfu/100ml) | Number of HPC Samples | Range of HPC Results (cfu/1ml) |
|--------------|-------------------|--|---|----------------------------------|-----------------------|--------------------------------|
| Raw          | 52                | 0  | 0   | 0 - 4                            | 52                    | <10 - 100                      |
| Treated      | 52                | 0  | 0   | 0                                | 52                    | <10 - 50                       |
| Distribution | 211               | 0  | 0   | 0 - 1                            | 211                   | <10 - 410                      |

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 |
|--|------------------------|------------------|
| Turbidity –Raw Manual  | 13                     | 0.07 – 0.14 NTU  |
| Turbidity – Treated Online   | 8760                   | 0.04 – 0.83 NTU  |
| Free Chlorine– Treated Online  | 8760                   | 0.32 – 0.98 mg/l |
| Free Chlorine – Treated Manual   | 365                    | 0.48 – 0.88 mg/l |
| Free Chlorine– Distribution (Daily distribution & Flushing + Bacti sampling) | 608 + 263 = 871        | 0.10 – 0.90 mg/l |
| Fluoride (If the DWS provides fluoridation)                                  | Not applicable         |                  |

**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 |
|---------------------------------|-----------|--------------|--------|-----------------|
| None required                   |           |              |        |                 |

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

| Parameter  | Sample Date<br>mm/dd/yy | Result<br>Value | Unit of<br>Measure | Exceedance |
|--|-------------------------|-----------------|--------------------|------------|
| Antimony   | 09/14/09                | 0.0005          | mg/l               | No         |
| Arsenic  | 09/14/09                | <0.001          | mg/l               | No         |
| Barium   | 09/14/09                | 0.12            | mg/l               | No         |
| Boron  | 09/14/09                | 0.01            | mg/l               | No         |
| Cadmium  | 09/14/09                | <0.0001         | mg/l               | No         |
| Chromium   | 09/14/09                | <0.005          | mg/l               | No         |
| Mercury  | 09/14/09                | <0.0001         | mg/l               | No         |
| Selenium   | 09/14/09                | <0.002          | mg/l               | No         |
| Uranium  | 09/14/09                | 0.0004          | mg/l               | No         |
| Fluoride   | 03/18/08                | 0.1             | mg/l               | No         |
| Sodium   | 09/14/09                | 11              | mg/l               | No         |
| Lead (distribution)<br>Airport Café<br>Isabel Sample Station<br>Active Scale 6 York Rd<br>Airport Café | 02/12/09                | <0.0005         | mg/l               | No         |
|  | 06/03/09                | <0.0005         | mg/l               | No         |
|  | 09/02/09                | <0.0005         | mg/l               | No         |
|  | 11/12/09                | <0.0005         | mg/l               | No         |
| Nitrite  | 02/12/09                | <0.01           | mg/l               | No         |
|  | 06/03/09                | <0.01           | mg/l               | No         |
|  | 09/02/09                | <0.01           | mg/l               | No         |
|  | 11/12/09                | <0.01           | mg/l               | No         |
| Nitrate  | 02/12/09                | 1.8             | mg/l               | No         |
|  | 06/03/09                | 2.5             | mg/l               | No         |
|  | 09/02/09                | 2.7             | mg/l               | No         |
|  | 11/12/09                | 2.4             | mg/l               | No         |
| Nitrite+Nitrate  | 02/12/09                | 1.8             | mg/l               | No         |
|  | 06/03/09                | 2.5             | mg/l               | No         |
|  | 09/02/09                | 2.7             | mg/l               | No         |
|  | 11/12/09                | 2.4             | mg/l               | No         |

**Summary of lead testing under Schedule 15.1 during this reporting period**

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

| Location Type | Number of<br>Samples | Range of Lead<br>Results<br>(min#) – (max #) | Number of<br>Exceedances |
|---------------|----------------------|--|--------------------------|
| Plumbing      | 0                    |  |                          |
| Distribution  | 0                    |  |                          |

Next compliance periods **December 15, 2010 – April 15, 2011** and **June 15, 2011 – Oct. 15, 2011**

**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   | 09/14/09    | <0.5         | µg/l            | No         |
| Aldicarb   | 09/14/09    | <5           | µg/l            | No         |
| Aldrin   | 09/14/09    | <0.006       | µg/l            | No         |
| Aldrin + Dieldrin  | 09/14/09    | <0.01        | µg/l            | No         |
| Aroclor 1016   | 09/14/09    | <0.05        | µg/l            | No         |
| Aroclor 1221   | 09/14/09    | <0.1         | µg/l            | No         |
| Aroclor 1232   | 09/14/09    | <0.05        | µg/l            | No         |
| Aroclor 1242   | 09/14/09    | <0.05        | µg/l            | No         |
| Aroclor 1248   | 09/14/09    | <0.05        | µg/l            | No         |
| Aroclor 1254   | 09/14/09    | <0.05        | µg/l            | No         |
| Aroclor 1260   | 09/14/09    | <0.05        | µg/l            | No         |
| Atrazine   | 09/14/09    | <0.5         | µg/l            | No         |
| Atrazine + N-dealkylated metabolites (Atrazine+Desethy-atrazine) | 09/14/09    | <1           | µg/l            | No         |
| Bendiocarb   | 09/14/09    | <2           | µg/l            | No         |
| Benzene  | 09/16/09    | <0.1         | µg/l            | No         |
| Benzo(a)pyrene   | 09/14/09    | <0.009       | µg/l            | No         |
| Bromoxynil   | 09/14/09    | <0.5         | µg/l            | No         |
| Carbaryl   | 09/14/09    | <5           | µg/l            | No         |
| Carbofuran   | 09/14/09    | <5           | µg/l            | No         |
| Carbon Tetrachloride   | 09/16/09    | <0.1         | µg/l            | No         |
| a-Chlordane  | 09/14/09    | <0.006       | µg/l            | No         |
| g-Chlordane  | 09/14/09    | <0.006       | µg/l            | No         |
| Chlordane (Total)  | 09/14/09    | <0.01        | µg/l            | No         |
| Chlorpyrifos   | 09/14/09    | <1           | µg/l            | No         |
| Cyanazine  | 09/14/09    | <1           | µg/l            | No         |
| Desethyl-atrazine  | 09/14/09    | <0.5         | µg/l            | No         |
| Diazinon   | 09/14/09    | <1           | µg/l            | No         |
| Dicamba  | 09/14/09    | <1           | µg/l            | No         |
| 1,2-Dichlorobenzene  | 09/16/09    | <0.2         | µg/l            | No         |
| 1,4-Dichlorobenzene  | 09/16/09    | <0.2         | µg/l            | No         |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites              | 09/14/09    | <0.02        | µg/l            | No         |
| 1,2-Dichloroethane   | 09/16/09    | <0.2         | µg/l            | No         |
| 1,1-Dichloroethylene (vinylidene chloride)                       | 09/16/09    | <0.1         | µg/l            | No         |
| Methylene Chloride (Dichloromethane)                             | 09/16/09    | <0.5         | µg/l            | No         |
| 2-4 Dichlorophenol   | 09/14/09    | <0.5         | µg/l            | No         |
| 2,4-Dichlorophenoxy acetic acid (2,4-D)                          | 09/14/09    | <1           | µg/l            | No         |
| Diclofop-methyl  | 09/14/09    | <0.9         | µg/l            | No         |
| Dieldrin   | 09/14/09    | <0.006       | µg/l            | No         |
| Dimethoate   | 09/14/09    | <3           | µg/l            | No         |
| Dinoseb  | 09/14/09    | <1           | µg/l            | No         |
| Diquat   | 09/14/09    | <7           | µg/l            | No         |



|  |          |        |      |    |
|--|----------|--------|------|----|
| Diuron                                       | 09/14/09 | <10    | µg/l | No |
| Ethyl Parathion (Parathion)                  | 09/14/09 | <1     | µg/l | No |
| Glyphosate                                   | 09/14/09 | <10    | µg/l | No |
| Guthion (Azinphos-methyl)                    | 09/14/09 | <2     | µg/l | No |
| Heptachlor                                   | 09/14/09 | <0.006 | µg/l | No |
| Heptachlor Epoxide                           | 09/14/09 | <0.006 | µg/l | No |
| Heptachlor + Heptachlor Epoxide              | 09/14/09 | <0.01  | µg/l | No |
| Linadane (Total)                             | 09/14/09 | <0.006 | µg/l | No |
| Malathion                                    | 09/14/09 | <5     | µg/l | No |
| Methoxychlor                                 | 09/14/09 | <0.02  | µg/l | No |
| Metolachlor                                  | 09/14/09 | <0.5   | µg/l | No |
| Metribuzin                                   | 09/14/09 | <5     | µg/l | No |
| Chlorobenzene (Monochlorobenzene)            | 09/16/09 | <0.1   | µg/l | No |
| o.p.-DDT                                     | 09/14/09 | <0.006 | µg/l | No |
| p.p.-DDD                                     | 09/14/09 | <0.006 | µg/l | No |
| p.p.-DDE                                     | 09/14/09 | <0.006 | µg/l | No |
| p.p.-DDT                                     | 09/14/09 | <0.006 | µg/l | No |
| Paraquat                                     | 09/14/09 | <1     | µg/l | No |
| Oxychlorthane                                | 09/14/09 | <0.006 | µg/l | No |
| Pentachlorophenol                            | 09/14/09 | <0.5   | µg/l | No |
| Phorate                                      | 09/14/09 | <0.5   | µg/l | No |
| Picloram                                     | 09/14/09 | <5     | µg/l | No |
| Polychlorinated Biphenyls(PCB) total         | 09/14/09 | <0.05  | µg/l | No |
| Prometryne                                   | 09/14/09 | <0.3   | µg/l | No |
| Simazine                                     | 09/14/09 | <1     | µg/l | No |
| <b>THM Total (distribution)</b>              |          |        |      |    |
| Airport Café                                 | 02/12/09 | 5.1    | µg/l | No |
| Isabel Sample Station                        | 06/03/09 | 6.7    | µg/l | No |
| Active Scale 6 York Rd                       | 09/02/09 | 4.1    | µg/l | No |
| Airport Café.                                | 11/12/09 | 6.0    | µg/l | No |
| Temephos                                     | 09/14/09 | <10    | µg/l | No |
| Terbufos                                     | 09/14/09 | <0.5   | µg/l | No |
| Tetrachloroethylene                          | 09/16/09 | <0.1   | µg/l | No |
| 2,3,4,6-Tetrachlorophenol                    | 09/14/09 | <0.5   | µg/l | No |
| Toluene                                      | 09/16/09 | <0.2   | µg/l | No |
| Triallate                                    | 09/14/09 | <1     | µg/l | No |
| Trichloroethylene                            | 09/16/09 | <0.1   | µg/l | No |
| 2,4,6-Trichlorophenol                        | 09/14/09 | <0.5   | µg/l | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 09/14/09 | <1     | µg/l | No |
| Trifluralin                                  | 09/14/09 | <1     | µg/l | No |
| Vinyl Chloride                               | 09/16/09 | <0.2   | µg/l | No |



Non regulatory RAW WATER samples were taken from the Airport Well to gain operational information and were analyzed for the parameters listed in the table below.

| <b>Parameter</b>          | <b>Sample Date<br/>mm/dd/yy</b> | <b>Result</b> | <b>Unit of Measure</b> |
|---------------------------|---------------------------------|---------------|------------------------|
| <b>Dissolved Sulphate</b> | 01/28/09                        | 55            | mg/l                   |
|                           | 04/16/09                        | 53            | mg/l                   |
|                           | 07/10/09                        | 51            | mg/l                   |
|                           | 12/22/09                        | 53            | mg/l                   |
| <b>Dissolved Chloride</b> | 01/28/09                        | 26            | mg/l                   |
|                           | 04/16/09                        | 25            | mg/l                   |
|                           | 07/10/09                        | 25            | mg/l                   |
|                           | 12/22/09                        | 25            | mg/l                   |
| <b>Nitrite</b>            | 01/28/09                        | <0.01         | mg/l                   |
|                           | 04/16/09                        | <0.01         | mg/l                   |
|                           | 12/22/09                        | <0.01         | mg/l                   |
| <b>Nitrate</b>            | 01/28/09                        | 2.0           | mg/l                   |
|                           | 04/16/09                        | 2.4           | mg/l                   |
|                           | 07/10/09                        | 3.3           | mg/l                   |
|                           | 12/22/09                        | 2.7           | mg/l                   |
| <b>Nitrate + Nitrite</b>  | 01/28/09                        | 2.0           | mg/l                   |
|                           | 04/16/09                        | 2.4           | mg/l                   |
|                           | 12/22/09                        | 2.7           | mg/l                   |

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

| <b>Parameter</b> | <b>Result Value</b> | <b>Unit of Measure</b> | <b>Date of Sample</b> |
|------------------|---------------------|------------------------|-----------------------|
| None             |                     |                        |                       |