



**OPTIONAL ANNUAL REPORT TEMPLATE**

|                                 |   |
|---------------------------------|---|
| Drinking-Water System Number:   | 260002304   |
| Drinking-Water System Name:     | City of Niagara Falls Distribution System           |
| Drinking-Water System Owner:    | <b>The Corporation of the City of Niagara Falls</b> |
| Drinking-Water System Category: | Large Municipal                                     |
| Period being reported:          | Jan 1, 2022 – Dec 31, 2022                          |

|   |   |
|---|---|
| <p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [ ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet?<br/>Yes [X] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <p>3200 Stanley Ave<br/>Niagara Falls, Ontario<br/>L2E 6S4<br/>Phone: 905-356-7521<br/>Fax: 905-353-8612</p> | <p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: _____</p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve?<br/>Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: _____</p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?<br/>Yes [ ] No [ ]</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 |
|-------------------------------------|------------------------------|
| Port Robinson                       | 260049582                    |
| Bevan Heights Drinking Water System | 260062452                    |

**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 [X] 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 Ad placed in newspaper same time as annual hydrant flushing notification

### Describe your Drinking-Water System

The City of Niagara Falls purchases treated water from the Regional Municipality of Niagara. Surface water from Lake Erie is at the Region's Niagara Falls Treatment Plant. Treatment consists of pre-chlorinated, conventional screening, coagulation, flocculation and settling followed by filtration, UV treatment and post chlorination. Treated water is distributed by the City of Niagara Falls through approximately 485 km of watermains ranging in size from 25mm to 600mm. Niagara Falls is connected to the Niagara-on-the-Lake distribution system via a 300mm watermain, located on Mewburn Rd, and the entrance to Bevan Heights .

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

N/A

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

In 2021, approximately 6.97 km of watermain was installed at a cost of approximately \$9,601,370.43

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 |
|---------------|-----------|--------|-----------------|--|------------------------|
| 03/09/2022    | Lead      | 0.0328 | mg/L            | Recommend resident replace lead service, (they did) & Re-sample of distribution system (achieved acceptable results) | 04/06/2022             |



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|            |          |        |      |   |            |
|------------|----------|--------|------|---|------------|
| 07/21/2022 | Chlorine | 0.00   | mg/L | Flush and resample  | 07/22/2022 |
| 09/14/2022 | Lead     | 0.0490 | mg/L | Recommend resident replace lead service, (they chose not to) & Re-sample of distribution system (achieved acceptable results) | 09/27/2022 |

**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 | 1296              | 0  | 0   | 1296                  | 0 - 227                              |

**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                                    | 1506                   | 0.10 -1.32                       |
| 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 |
|---------------------------------|-----------|--------------|--------|-----------------|
| N/A                             | N/A       | N/A          | N/A    | N/A             |

**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   |             |              |                 |            |
| Barium    |             |              |                 |            |
| Boron     |             |              |                 |            |
| Cadmium   |             |              |                 |            |
| Chromium  |             |              |                 |            |
| *Lead     |             |              |                 |            |
| Mercury   |             |              |                 |            |
| Selenium  |             |              |                 |            |
| Sodium    |             |              |                 |            |
| Uranium   |             |              |                 |            |
| Fluoride  |             |              |                 |            |
| Nitrite   |             |              |                 |            |

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

**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 Samples | Range of Lead Results (min#) – (max #) | Number of Exceedances |
|---------------|-------------------|--|-----------------------|
| Plumbing      | 31                | 0.00003 – 0.13000 mg/L                 | 3                     |
| Distribution  | 16                | 0.00002 – 0.04900 mg/L                 | 2                     |

**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)                    |             |              |                 |            |



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|   |                     |       |      |   |
|---|---------------------|-------|------|---|
| 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  |                     |       |      |   |
| HAA<br>(NOTE: showing latest annual average)        | Jan 2022 - Dec 2022 | 5.53  | µg/L | 0 |
| Heptachlor + Heptachlor Epoxide                     |                     |       |      |   |
| Lindane (Total)                                     |                     |       |      |   |
| Malathion   |                     |       |      |   |
| Methoxychlor  |                     |       |      |   |
| Metolachlor   |                     |       |      |   |
| Metribuzin  |                     |       |      |   |
| Monochlorobenzene                                   |                     |       |      |   |
| Paraquat  |                     |       |      |   |
| Parathion   |                     |       |      |   |
| Pentachlorophenol                                   |                     |       |      |   |
| Phorate   |                     |       |      |   |
| Picloram  |                     |       |      |   |
| Polychlorinated Biphenyls(PCB)                      |                     |       |      |   |
| Prometryne  |                     |       |      |   |
| Simazine  |                     |       |      |   |
| THM<br>(NOTE: showing latest annual average)        | Jan 2022 - Dec 2022 | 32.75 | µg/L | 0 |
| Temephos  |                     |       |      |   |
| Terbufos  |                     |       |      |   |
| Tetrachloroethylene                                 |                     |       |      |   |
| 2,3,4,6-Tetrachlorophenol                           |                     |       |      |   |
| Triallate   |                     |       |      |   |
| Trichloroethylene                                   |                     |       |      |   |



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|  |  |  |  |  |
|--|--|--|--|--|
| 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 |
|-----------|--------------|-----------------|----------------|
|           |              |                 |                |
|           |              |                 |                |