

## 2020 Source Protection Annual Progress Report

### I. Introduction

Trent Annual Progress Report outlines progress made in implementing our source protection plan for:

- Kawartha-Haliburton Source Protection Authority;
- Otonabee-Peterborough Source Protection Authority;
- Crowe Valley Source Protection Authority;
- Lower Trent Source Protection Authority.

Ganaraska Annual Progress Report outlines progress made in implementing our source protection plan for:

- Ganaraska Region Source Protection Authority.



## II. A message from your local Source Protection Committee

- P : Progressing Well/On Target – The majority of the source protection plan policies have been implemented and/or are progressing.**
- S : Satisfactory – Some of the source protection plan policies have been implemented and/or are progressing.
- L : Limited progress – A few of the source protection plan policies have been implemented and/or are progressing.

The rationale for the Source Protection Committee (SPC) to select the “progress score” is as follows:

The SPC arrived at this consensus based on a summary of information provided by Source Protection Authorities through the Annual Progress Report templates and a draft Annual Progress Report presented on March 25, 2021 at a TCC Source Protection Committee meeting.

The SPC reviewed the sections in the below report, including a review of the scoring proposed by each Source Protection Authority. The SPC then assessed the progress score by applying the criteria above. The committee settled on the progress score of “Progressing well/on target” because implementation of the Trent Source Protection Plan policies are mostly complete, or in progress, across all four SPAs.

### III. Our Watershed

To learn more, please read our assessment report(s) and source protection plan(s)

The Trent Conservation Coalition (TCC) Source Protection Region is comprised of five source protection areas, four of which comprise the Trent River Watershed, and one for the Ganaraska Watershed. The Trent Source Protection Plan (SPP) applies to the Trent River Watershed, and the Ganaraska Source Protection Plan covers the latter. This report was prepared based on annual reporting information submitted by implementing bodies within these watersheds.

- Kawartha-Haliburton Source Protection Authority;
  - Otonabee-Peterborough Source Protection Authority;
  - Crowe Valley Source Protection Authority;
  - Lower Trent Source Protection Authority;
  - Ganaraska Region Source Protection Authority.
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- Population in the TCC: 400,000
  - Area: TCC = 14,500 km<sup>2</sup>
  - Area: Trent River Watershed= 12,900 km<sup>2</sup>
  - Number of drinking water systems in the TCC SPR: 53 (includes one planned groundwater system)
  - Number of municipalities in the TCC SPR with residential drinking water systems: 24 (22 lower tier, 5 upper tier)
  - Number of municipalities in the TCC SPR with at least part of a vulnerable area in their jurisdiction: 43 (38 lower tier, 5 upper tier)
  - Number of policies in the Trent Source Protection Plan: 138
  - Number of Issue Contributing Areas in the Trent Source Protection Plan: 1 (Stirling system)
  - Effective date of the Trent Source Protection Plan: January 1, 2015

From Ganaraska:

Part of the Trent Conservation Coalition Source Protection Region

- Area: 930 km<sup>2</sup>
- Number of Drinking Water Systems in the Ganaraska SPP: 6
- Number of surface water systems in the Ganaraska SPP: 3
- Number of groundwater systems in the Ganaraska SPP: 3
- Population serviced by municipal residential drinking water systems: more than 45,000
- Number of policies in the Ganaraska SPP: 137
- Effective date of the Ganaraska SPP: January 1, 2015

## IV. At a Glance: Progress on Source Protection Plan Implementation

### 1. Source Protection Plan Policies

#### **From Trent Conservation Coalition except Ganaraska:**

##### **P: Progressing Well/On Target**

All of the policies (100 %) that address significant drinking water threats are implemented, in progress and have been evaluated and determined to require no further action(s).

#### **From Ganaraska:**

##### **P: Progressing Well/On Target**

All of the policies (100%) in the Ganaraska Source Protection Plan that address significant drinking water threats are implemented, in progress and have been evaluated and determined to require no further action(s).

### 2. Municipal Progress: Addressing Risks on the Ground

#### **From Trent Conservation Coalition except Ganaraska:**

##### **P: Progressing Well / On Target**

27 municipalities (22 lower tier and 5 upper tier) contain vulnerable areas where Source Protection Plan polices apply. Municipalities in our source protection region also are required to take the next step to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. All municipalities have amended or are in the process of amending their Official Plan to conform with the source protection plans for our region. The completion status of these amendments is:

Otonabee-Peterborough Source Protection Area = 88%,

Kawartha-Haliburton Source Protection Area = 40%,

Crowe Valley Source Protection Area = 100% and

Lower Trent Source Protection Area = 71% complete.

All municipalities (100%) in our source protection region have processes in place to ensure that their day-to-day planning decisions conform with our source protection plans.

The Plan also includes policies related to Emergency Management. The status of Municipalities updating their Emergency Management Plans to incorporate Source Water is as follows:

Otonabee-Peterborough Source Protection Area = 100%, Kawartha-Haliburton Source Protection Area = 100%, Crowe Valley Source Protection Area = 100% and Lower Trent Source Protection Area = 86%.

Within this category, each Source Protection Authority approved a progress score in the context of their Source Protection Area. All Source Protection Authorities were given a score of P: Progressing Well / On target

### **From Ganaraska:**

#### **P: Progressing Well / On Target**

Municipalities in our source protection region also are required to take the next step to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. 100% of Municipalities have amended or are in the process of amending their Official Plan to conform with the Source Protection Plan.

All municipalities (100%) in our source protection region have processes in place to ensure that their day-to-day planning decisions conform with our source protection plans.

The Plan also includes policies related to Emergency Management. All municipalities (100%) have ensured updates to Emergency Management Plans are in place, in progress, not Applicable or the policy outcome has been evaluated and no further action required.

### 3. Septic Inspections

#### **From Trent Conservation Coalition except Ganaraska:**

##### **P: Progressing Well/On Target**

Overall, 100% of existing septic threats have been inspected in the first 5 year cycle in accordance with the Ontario Building Code. Of the inspections completed in 2020, 28% required maintenance, and 72% function as required.

Due to the shifting five year cycles of sewage system reporting there are varied levels of completion among the Source Protection Areas.

For Otonabee-Peterborough, 2020 is year 2 of their second 5-year cycle, hence why despite completing 40 new inspections, the cumulative percentage of inspections completed is still 54%. Otonabee-Peterborough achieved 100% compliance for the previous period.

Kawartha-Haliburton completed their mandatory inspections in previous years.

Crowe Valley similarly had a number of new on-site sewage systems installed, not captured in the first round of inspections, falling outside of the original 5-year window.

For Lower Trent, all but one municipality have completed their mandatory inspections, with 1 inspection still required.

For Kawartha-Haliburton, Crowe Valley and Lower Trent, 2021 will mark the start of their next 5-year cycle.

#### **From Ganaraska:**

##### **P: Progressing Well/On Target**

100% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. Inspection results found that all (100%) are functioning as designed or carrying out required pump-outs.

## 4. Risk Management Plans

### **From Trent Conservation Coalition except Ganaraska:**

#### **P: Progressing Well/On Target.**

Six (6) Risk Management Plans have been established for this reporting period. These 6 plans collectively manage a total of 9 significant drinking water threats. Risk Management Officials report an ongoing effort to refine the number of significant drinking water threats based on information gathered from site visits, direct contacts and other means.

The total number of inspections carried out by a Risk Management Official was 21. The compliance rate with the Risk Management Plans established is 100%.

A total of 100 Section 59 notices were issued for this reporting period. The processes to screen development applications is reported to be working and some municipalities continue to fine tune their screening processes to improve efficiencies.

### **From Ganaraska:**

#### **P: Progressing Well/On Target.**

Zero (0) new RMPs were established for this reporting period.

The total number of inspections carried out by a Risk Management Official / Inspector in 2019 was 3.

## 5. Provincial Progress: Addressing Risks on the Ground

### **From Trent Conservation Coalition except Ganaraska:**

#### **P: Progressing Well/On Target**

Ontario ministries are reviewing previously issued provincial approvals (i.e., prescribed instruments, such as environmental compliance approvals under the Environmental Protection Act) where they have been identified as a tool in our plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. Our policies set out a timeline of 5 years to complete the review and make any necessary changes.

Based on the scale of reporting received by the province, we are unable to determine the exact number of reviews that have occurred within the Otonabee-Peterborough Source Protection Area, Kawartha-Haliburton Source Protection Area, Crowe Valley Source Protection Area and Lower Trent Source Protection Area. For future threats, Ministries reported that 100% of our policies are implemented, with standard operating procedures in place where applications are reviewed to ensure the proposed activities conform to our policies.

### **From Ganaraska:**

#### **P: Progressing Well/On Target**

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## 6. Source Protection Awareness and Change in Behaviour

### **From Trent Conservation Coalition except Ganaraska:**

Road signage was identified as an effective Education and Outreach tool to raise awareness of the Drinking Water Source Protection Program and the importance of protecting sources of municipal drinking water. Drinking Water Protection Zone signs have been installed in vulnerable areas across the Trent Conservation Source Protection Region. To date, all required Drinking Water Protection Zone signs have been installed in the four Source Protection Authorities, including 246 under the Trent Source Protection Plan.

### **From Ganaraska:**

The total number of Drinking Water Protection Zone signs that have been installed on municipal roads in the Ganaraska Region Source Protection Area is 8. No signs were required to be installed on provincial roads.

In both regions, information related to specific drinking water threats such as Road Salt, Snow Storage, DNAPLs and Organic Solvents, Fuel, Sewage, and Pesticide was communicated through social media posts throughout the year.

CA staff include SWP info at events prior to COVID-19 restrictions, and continued to integrate messaging related to water quality, water quantity, storm water, sewage, road salt and other threats through education programs delivered virtually and in person.

Distribution of SWP information packages for new landowners and making brochures and factsheets publicly available electronically supported ongoing education and outreach efforts. Information materials and website content was updated, and other activities included distribution of information to affected landowners and tenants in vulnerable areas. Targeted awareness campaigns regarding road salt use in the winter was also initiated.

The Trust the Tap campaign was launched across the Trent SPR and also in various other municipalities across the province. This program focused on the successes of the program leading up to the 20th anniversary of the Walkerton Tragedy.

## 7. Source Protection Plan Policies: Summary of Delays

### **From Trent Conservation Coalition except Ganaraska:**

All policies are implemented, in progress or evaluated as no further action required. See Trent Conservation Coalition's Annual Progress Report as posted on their website for a more detailed summary. However, policy implementation challenges are being addressed through our Workplan, and staff are always looking into how policy wording can be improved to assist in overall Trent Source Protection Plan implementation.

### **From Ganaraska:**

All policies are implemented, in progress or evaluated as no further action required. See Trent Conservation Coalition's Annual Progress Report as posted on their website for a more detailed summary.

## 8. Source Water Quality: Monitoring and Actions

### **From Trent Conservation Coalition excluding Ganaraska:**

Drinking Water System: Stirling

Issue: E. Coli

Observations; No change in concentration

Actions: A new less vulnerable production well was brought online in 2020 which will reduce risk of e. coli. RMPs continue to be developed to reduce the amount of e. coli entering Rawdon Creek. Weekly sampling, result conveyed to council and public through Annual Drinking Water Report.

**From Ganaraska:** In our source protection region/area, no issues have been identified in our local science-based assessment report(s) regarding the quality of the source(s) of municipal drinking water.

## 9. Science-based Assessment Reports: Work Plans

Water Budget - Technical Rule #30.1 for Stirling-Rawdon a Tier 3 water budget was included in the 2018 Section 36 work plan, however requires MECP support and funding to proceed.

Additionally, In the fall of 2018, a work plan was submitted to the Ministry, outlining activities proposed to update the Assessment Report and Source Protection Plan. These activities include:

- Updates based on changes to the Director's Technical Rules;
- Changes in scientific information; and,
- Lessons learned from policy implementation.

Work is underway to implement the work plan by 2023.

## 10. More from the Watershed

<http://trentsourceprotection.on.ca/>