



DSWP Newsletter

Amendments to the Approved Source Protection Plan were submitted April 29, 2016!

Following consultation activities January 12 – March 7, 2016, the Source Protection Committee reviewed the comments received at its March 18th meeting. Carl Seider, Project Manager, also made presentations to the three Source Protection Authorities to receive policies in preparation for the submission to the Minister of the Environment and Climate Change.

The Source Protection Plan comes into effect July 1, 2016 – Is your municipality ready?

- Do you have Risk Management Official/Risk Management Inspector arrangements made?
- Municipalities have implementation responsibilities under Part IV of the *Clean Water Act* that include:
 - Appointing Risk Management Officials/Risk Management Inspectors to verify significant drinking water threats for properties within their municipality
 - Negotiating Risk Management Plans with landowners, monitoring and enforcing Source Protection Plan policies
- Restricted Land Use Planning for policies where applicable
 - Section 59 of the *Clean Water Act* (restricted land use policies) is intended to serve as a 'red flag' so that building permit and *Planning Act* applications can be reviewed in areas where Section 57 (Prohibition) and Section 58 (Risk Management Plans) requirements are in effect for vulnerable areas
 - The vulnerable areas, as delineated in the Source Protection Plan, identify the locations where restricted land use activities may apply. Restricted Land Use Policies G-01– Non-residential, G-02– Residential, and G-03 – Non-residential for Fuel Near Intakes specify the types of activities designated as restricted land uses for the purpose of Section 59. See Chapter 6 of the Source Protection Plan at the following link <http://www.waterprotection.ca/i-plan.htm> to review policy text
 - A Notice to proceed is required from a Risk Management Official before an application or approval under the *Planning Act* can proceed or a building permit issued
- Monitoring and annual reporting to local Source Protection Authority – is there a process in place to track relevant information for submissions

Quick Facts from the Ministry of the Environment and Climate Change (MOECC)

- Additional Resources from MOECC - <http://www.ontario.ca/page/source-protection>

Drinking Water Protection Zone Road Signs

Road signs are starting to go up around the province notifying people that they are entering a Drinking Water Protection Zone. The Drinking Water Source Protection office is working with MOECC and Ministry of Transportation Ontario to determine locations and timing for installation of signs on provincial roads where Source Protection Municipal Implementation Funding (SPMIF) agreements have been amended by the MOECC. The new SPMIF guidance allows for SPMIF to be used for the purchase and installation of municipal road signs (**so long as** you write to MOECC to have your agreement amended). Please send any questions to the following email and the appropriate staff person will respond Source.protection@ontario.ca.

**More Information about the new Drinking Water Protection Zone signs
(you can use this content in municipal newsletters, on websites, in social media)**



- ◆ They are appearing across Ontario to raise awareness about our drinking water sources and to protect our health
- ◆ Governments at the provincial and local level are placing signs where a pollution spill could have a significant negative impact on our drinking water
- ◆ The signs are part of Ontario's Source Water Protection program under the *Clean Water Act*, which empowers communities to better protect their local water sources
- ◆ You will see the signs as you drive through a drinking water protection zone
- ◆ Placement of the signs depends on whether drinking water sources are vulnerable in that area

Meetings and key dates

Source Protection Committee Meeting on May 27, 2016, 9:30 am - 12:00 noon at Saugeen Conservation in Formosa. Agenda will be posted to www.waterprotection.ca when available. The meeting is open to the public.

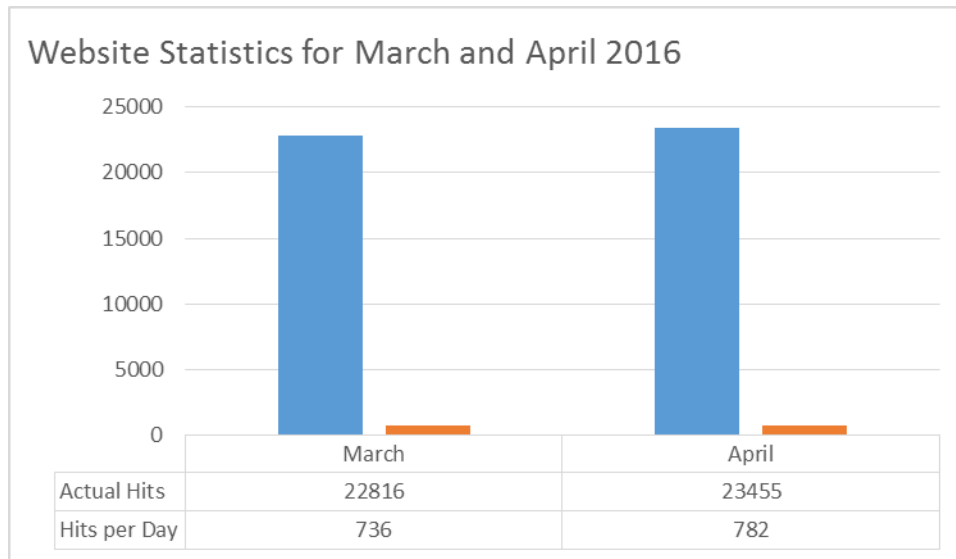
Drinking Water Source Protection Staff are actively engaging with municipalities in preparation for the Source Protection Plan Implementation Date of July 1, 2016.

Website statistics for March and April 2016

The top visited pages and downloaded items for the www.waterprotection.ca website were:

- Source Protection Plan Events-based area maps for Kincardine, Southampton, Thornbury, Meaford, Owen Sound and Wiarton
- Assessment Report documents for Saugeen and Grey Sauble Conservation Areas
- Municipal implementation responsibilities section of Municipal page
- Source Protection Plan maps for Murdock Glen and Clifford

The following two charts represent the website hits or visits for each of the last two months. The chart displays the total actual hits for the month in blue and the average hits or visits per day in orange. To optimize accuracy, the hits/visits to the www.waterprotection.ca website have been corrected to remove any search engine/robot type software not associated with an actual person visiting the site.



Municipal Toolbox Items

Visit <http://waterprotection.ca/municipal.htm> for resources and administrative items that can be viewed, downloaded and/or personalized for municipal implementation

Try out the local Drinking Water Source Protection Public Mapping site available at [Interactive Vulnerable Areas Mapping Application](http://www.waterprotection.ca) link at www.waterprotection.ca

You can view the Source Protection Region and see each Wellhead Protection Area (WHPA) and Intake Protection Zone (IPZ). When you select a coloured area, a chart will appear with the system name, WHPA or IPZ name, vulnerability score, status and references where applicable. This information is a useful tool when reviewing the Source Protection Plan policies. In Chapter 5 of the Source Protection Plan, there are tables for each vulnerability score and zone to make finding the policies that apply to a property quicker. Chapter 6 contains the policies.

Education & Outreach Materials and Resources

There are many valuable tools available to municipalities that would be useful when talking to landowners and preparing them for implementation or including on your municipal website or social media presence. Each of these catalogue items give key messages based on the target audience. If you would like printed septic brochures, they are available for order from the Ministry of the Environment and Climate Change by sending an email to: Source.Protection.E&O@ontario.ca

Catalogue items download from Conservation Ontario: <http://conservation-ontario.on.ca/library>

- ◆ General Source Water Protection Messages
- ◆ Agriculture, Nutrients and Pesticides
- ◆ Heating and Liquid Fuels
- ◆ Road Signs
- ◆ Wells
- ◆ Hazardous Liquids
- ◆ Road Salt/Snow Storage
- ◆ On-site Sewage (Septic) Systems
- ◆ Education and Outreach Campaign-in-a-Box toolkit - (e.g. social media strategies, plans and infographics)

Infographics like the one below can be used in tax statements, mailings and on municipal social media and websites. Contact Karen Gillan if you would like this graphic. Others will be featured in future newsletters and on the Drinking Water Source Protection website, Facebook and Twitter feeds.



Glossary of Common Drinking Water Source Protection Terms and Initialisms

IPZ = Intake Protection Zone, is a zone established/delineated around a municipal surface water intake as prescribed by the Technical Rules: *Clean Water Act, 2006*. The IPZ-1 is a circle that has a radius of 1000 metres (1 km) from the crib of the surface water intake that serves as the source or entry point of raw water supply for the system. The Assessment Report identified that where the area delineated includes land, the IPZ-1 included a setback on the land of up to 120 metres and the area regulated by Conservation Authorities where applicable, where the 1000 metre circle touches the land. An area known as IPZ-2 was delineated in the Assessment Report based on an area where a modelled contaminant released would take two hours to travel to the intake. It includes the onland area that drains to the surface water intake, using both natural features and water management infrastructure. IPZ-3 includes the area where a contaminant could reach the intake during an extreme event such as a flood. Not all intakes will have an IPZ-3. IPZ-Q corresponds to the drainage area that contributes surface water to an intake and the area that provides recharge to an aquifer that contributes groundwater discharge to the drainage area. Part VI.7 of the Technical Rules specifies the rules with respect to the delineation of IPZ-Q (Matrix, 2016).

EBA = Events-based area, is part of the IPZ-1, IPZ-2, IPZ-3 where activities under the modelled conditions may be considered a threat to drinking water sources. IPZs don't overlap each other but an EBA can overlap the IPZs.

Vulnerability score = a score representing the susceptibility of an area to contamination. These scores are based on Technical Rules: *Clean Water Act, 2006*, where 10 is the most vulnerable and 2 is the least vulnerable. In a wellhead protection area (WHPA), significant threats are possible where the score is greater than 8 (dense non-aqueous phase liquids can be significant in WHPA-A, B or C).

WHPA = Wellhead Protection Area is one of four types of vulnerable areas identified in the *Clean Water Act*. It is the zone around a drinking water well. The WHPA-A is the 100 metre circle centred on the wellhead. The WHPA-B is the two year time-of-travel . WHPA-C is the five year time-of-travel . WHPA-D is the 25 year time-of-travel . WHPA-E is associated with a GUDI (groundwater under the direct influence of surface water) well is the area within which the surface water could reach the well within two hours.

A-Q (local area) is associated with an area that has a water quantity threat; WHPA-Q1 is mapped as the combined area of the cone of influence of the well and the whole of the cones of influence of all other wells that intersect that area.

DWSP Newsletter

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<https://www.facebook.com/pages/Drinking-Water-Source-Protection>

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