

# DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER

Halton-Hamilton  
Source Protection  
Region

February 13, 2013 Issue 3

I.G.# 1

## SOURCE PROTECTION NEWS

First Source Protection Plan  
Approved

Halton Region and  
Hamilton Region Source  
Protection Plans

Grand River Source  
Protection Plan

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MOE Announces New  
Assistant Deputy Minister

John Westlake Moves Up –  
New MOE Liaison Officer

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Received

Implementation Resource  
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Chairs' Meeting

Source Protection  
Committee Meeting

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## SOURCE PROTECTION NEWS

### First Source Protection Plan Approved

On January 16, 2013, Minister Bradley approved the source protection plan under the *Clean Water Act* for Lakehead Source Protection Area. This is the first source protection plan to be approved out of the 19 source protection regions/areas. This plan will come into effect on October 1, 2013. Further details on this milestone can be found below:

News Release: <http://news.ontario.ca/ene/en/2013/01/protecting-drinking-water-in-thunder-bay.html>  
ERB Posting: <http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTE4MzU4&statusId=MTc3MTMx&language=en>

### Halton Region and Hamilton Region Source Protection Plans

No Word As Yet!

### Grand River Source Protection Plan

With the submission of the Grand River Source Protection Plan last week all plans have now been submitted and are being reviewed or have been approved (only Lakehead) by the MOE. The Grand River plan includes policies for implementation within the City of Hamilton (Chapter 6), County of Wellington (Township of Puslinch, Chapter 7), and Halton Region (Town of Milton, Chapter 8) and efforts were made to achieve consistency with Halton-Hamilton policies where possible.

The Grand River plan can be reviewed at: <http://www.sourcewater.ca/index/document.cfm?Sec=7&Sub1=11>

## TRANSITIONS

### MOE Announces New Assistant Deputy Minister

Gail Beggs, Deputy Minister of the Environment announced that Sue Lo joined the Ministry of the Environment as the Assistant Deputy Minister of the Drinking Water Management Division and as Chief Drinking Water Inspector on February 18, 2013. Previously, Ms. Lo was the Assistant Deputy Minister of the Renewables and Energy Efficiency Division, Ministry of Energy.

### John Westlake Moves Up – New MOE Liaison Officer

We are sorry to report that John Westlake will be leaving us as MOE Liaison Officer, but pleased to hear that he is moving into a position of his choosing. John will be the Executive Assistant to the newly appointed Assistant Deputy Minister, Sue Lo. Congratulations to John on his new career move.

Replacing John will be Lisa Ross who is currently the Liaison Officer for Lake Erie and Ausable Bayfield Maitland Valley Source Protection Regions. She is also the new Liaison Officer for CTC. Having assisted Lake Erie with plan development she is familiar with the Halton-Hamilton policy approach. Please welcome Lisa at our next meeting.

## ONGOING WORK

### First Risk Management Official's Annual Report Received

The Region of Peel is the only municipality within the Halton-Hamilton Source Protection Region to appoint a risk management official in 2012.

The Region of Peel appointed Mark Schiller, Executive Director Water & Wastewater, as risk management official on June 28, 2012 through Council Resolution 2012-825. His first report (attached without maps to make it smaller for e-mailing) summarizes the activities undertaken by the Region of Peel to initiate implementation of the three source protection plans proposed for areas within the Region from the date of his appointment through to December 31, 2012. Although the reporting requirements prior to approval of the source protection plans are minimal, Mr. Schiller has prepared a comprehensive document summarizing the municipal water systems, steps taken to comply with Part IV of the *Clean Water Act*, and describes other initiatives ongoing at the Region to protect the sources of its municipal drinking water. The Region has begun to develop business processes for policy implementation and to establish fees for services.

Without an approved source protection plan a report to the Ministry of the Environment is not required. The Ministry is developing an electronic reporting system that will be used by risk management officials across the province for consistent reporting in the future.

# DRINKING WATER SOURCE PROTECTION

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Halton-Hamilton  
Source Protection  
Region

February 22, 2013 Issue 1

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## Implementation Resource Guide

Staff have started to prepare an implementation guide and annual reporting form to assist municipalities with implementation of the Halton Region and Hamilton Region Source Protection Plan policies. Municipal planners have provided feedback on the desired content of the guide and form. We have discussed the preparation of municipal specific guides and the preparation with our neighbouring Source Protection Areas of one guide for municipalities with more than one plan to implement. The guide(s) cannot be finalized until the plan policies have been approved and this may be a challenge if the timing of the approval of the Halton Region and Hamilton Region Source Protection Plans is significantly different from the approval of the plans of our neighbouring source protection areas.

## FUTURE OF THE SOURCE PROTECTION PROGRAM

Having reached the milestone of plan submission for all Source Protection Regions/Areas, the Province has undertaken some program development work to establish the framework for the implementation and plan review phase of the source protection program. The Province is reviewing all aspects of the source protection program, including the size and make-up of the source protection committees. The Committee members will be informed when additional direction or guidance is released by the MOE.

## UPCOMING MEETINGS

### Chairs' Meeting

It appears a meeting of the Chairs of the Source Protection Committees and project managers will be called for March 25 and 26. Doug will be returning from Arizona to attend. Kathy Menyes will also attend.

### Source Protection Committee Meeting

We have scheduled a conference call for April 23 at 2 pm anticipating that the MOE will release comments on the Halton Region and Hamilton Region Source Protection Plans by that date. If comments are not received by then Doug and staff will assess the need for a call. A brief call to summarize the discussion at the Chairs' meeting may still be of use.

## Attachment:

- Risk Management Official 2012 Annual Report for Peel Region without maps



# RISK MANAGEMENT OFFICIAL'S ANNUAL REPORT 2012

**DRINKING WATER  
SOURCE PROTECTION**  
ACT FOR CLEAN WATER

**Region of Peel**  
*Working for you*



TO  
CREDIT VALLEY-TORONTO REGION-CENTRAL  
LAKE ONTARIO (CTC)  
SOUTH GEORGIAN BAY LAKE SIMCOE (SGBLS)  
HAMILTON-HALTON (H-H)  
SOURCE PROTECTION AUTHORITIES

**SUBMITTED BY:**

**MARK SCHILLER**  
Executive Director Water & Wastewater  
Risk Management Official  
Region of Peel

Date: January 31, 2013



# REGION OF PEEL

## RISK MANAGEMENT OFFICIAL'S ANNUAL REPORT 2012

TO

CREDIT VALLEY-TORONTO REGION-  
CENTRAL LAKE ONTARIO (CTC)  
SOUTH GEORGIAN BAY LAKE SIMCOE (SGBLS)  
HAMILTON-HALTON (H-H)  
SOURCE PROTECTION AUTHORITIES

### SUBMITTED BY:

MARK SCHILLER,  
Executive Director Water & Wastewater  
Risk Management Official  
Region of Peel

Date: January 31, 2013

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## Executive Summary

The Province of Ontario enacted the *Clean Water Act, 2006* and the associated Regulations to ensure that municipal drinking water supplies are safe at source. Source Protection Authorities (SPAs) and Source Protection Committees (SPCs) were formed in accordance with the *Act* to develop Source Protection Plans. The Region of Peel being responsible for the production and supply of drinking water is considered implementing body in accordance with the *Act* and hence, obligated to report to the Source Protection Authorities annually as prescribed in Section 81 of the *Act and O. Reg. 246/10*. In compliance with the *Act*, the Region of Peel appointed a Risk Management Official (RMO) and Risk Management Inspector (RMI) on June 28, 2012 through Council Resolution 2012-825.

It is the legislated requirement that the Risk Management Official must submit a report every year to relevant Source Protection Authorities by February 1<sup>st</sup>. For this report, the reporting period is from the day of the appointment of the Risk Management Official to December 31<sup>st</sup>, 2012. This report outlines the steps taken by the Risk Management Official for the reporting period for the following 3 Source Protection Authorities that it falls under the jurisdiction of:

- Credit Valley-Toronto Region-Central Lake Ontario (CTC) Source Protection Area (SPA); most of the Region of Peel's groundwater and surface water intakes fall within this SPA.
- South Georgian Bay Lake Simcoe (SGBLS) Source Protection Area; only Palgrave Well no. 3 falls within this SPA.
- Hamilton-Halton (H-H) Source Protection Area; none of the Region of Peel's groundwater systems or surface water intakes lies within this SPA.

Source Protection Plans and Policies (SPP&Ps) for all three have now been finalized and submitted to the Minister of Environment for approval in accordance with the *Act*.

This report provides a high level overview of activities being carried out by the RMO during the reporting period. All of the legislative requirements of reporting as prescribed in the *O. Reg. 246/10* cannot be completely met at this time because there are no policies approved yet to comply with. Hence, the forthcoming reports from RMO in the subsequent years after the approval of the Source Protection Plans and Policies by the Minister of Environment will be reporting on significant threat policies of the Source Protection Plans in accordance with the *O. Reg. 246/10*. New format of the RMO report is being developed to satisfy the requirements set forth by *O. Reg. 246/10*.



## 1.0 Region of Peel Water System Overview

The Region of Peel is responsible for production, treatment and distribution of water to its residents in the cities of Mississauga, Brampton and Town of Caledon in Ontario. Peel's water system is comprised of lake based supply and ground water systems. Peel's lake based supply is from Lake Ontario with two large water treatment plants, 12 pumping stations, 733 Kms of transmission mains and 3,546 Kms of distribution system mainly serving Mississauga, Brampton and some parts of Caledon. Water is also supplied to the Regional municipality of York. Servicing in the Town of Caledon is mostly through the ground water comprised of six well-head systems as follows:

### 1.1 Municipal Waterworks of the Community of Alton, Town of Caledon

*Drinking Water Works Number: 220004000 (Caledon Village- Alton System)*

The community of Alton, with a total population served of 1,557, is serviced by four municipal wells, a water storage standpipe and a distribution network of about 11.4 kilometres of water mains and 62 fire hydrants.

**Alton Wells no. 3 and 4** which are deemed groundwater under direct influence of surface water (GUDI) with effective in-situ filtration, are housed in the same treatment building. Water treatment includes primary disinfection by ultraviolet (UV) light irradiation followed by sodium hypochlorite disinfection. Secondary disinfection is maintained by free chlorine residual. Alton Wells no. 3 and 4 are within the Credit Valley Source Protection Area.

**Alton Wells no. 1 and 2** have been out of service since early 2004.

Alton drinking water system is interconnected with the Caledon Village water system, which serves as Alton's back up water supply. Caledon Village and Alton water systems are classified with the Ministry of the Environment (MOE) as one drinking water system (Caledon Village-Alton) under the same water works number.

Alton drinking water system is monitored and controlled 24 hours per day, 7 days a week through a computerized Supervisory Control and Data Acquisition (SCADA) system. Alton wells are equipped with a stand-by power generator to ensure operation continuity in an event of a power failure.

## **1.2 Municipal Waterworks of the Community of Caledon Village, Town of Caledon**

*Drinking Water Works Number: 220004000 (Caledon Village- Alton System)*

The communities of Caledon Village, Mono Mills and Skywood, with a total population served of 2,952, are serviced by two municipal wells, water storage reservoir and standpipe, and a distribution network of about 48.3 kilometres of water mains and 213 fire hydrants. Caledon Village Wells are within the Credit Valley Source Protection Area.

**Caledon Village Well no. 3** is deemed groundwater under direct influence of surface water (GUDI) with effective in-situ filtration. Water treatment includes primary disinfection by ultraviolet (UV) light disinfection and sodium hypochlorite followed by secondary disinfection by free chlorine residual.

**Caledon Village Well no. 4** is also deemed groundwater under influence of surface water (GUDI) well with effective in-situ filtration. Water treatment processes consists of iron removal and disinfection. Iron is removed through oxidization by sodium hypochlorite followed by greensand filtration. Primary disinfection is by sodium hypochlorite followed by ultraviolet (UV) light irradiation. Secondary disinfection is maintained by free chlorine residual.

Caledon Village drinking water system is interconnected with the Alton water system and serves as Alton's back up water supply. Caledon Village and Alton water systems are classified with the Ministry of the Environment (MOE) as one drinking water system under the same water works number.

Caledon Village drinking water system is monitored and controlled 24 hours per day, 7 days a week through a computerized Supervisory Control and Data Acquisition (SCADA) system.

Caledon Village wells are equipped with a stand-by power generator to ensure operation continuity in an event of a power failure.

## **1.3 Municipal Waterworks of the Community of Caledon East, Town of Caledon**

*Drinking Water Works Number: 220003993 (Palgrave – Caledon East Drinking Water System)*

The community of Caledon East, with total population served of 5,860, is serviced by three municipal wells, a water storage reservoir and a distribution network of about 33.5 kilometres of water mains and 207 fire hydrants. Caledon East Wells no. 2, 3 and 4 are within the Toronto Region Source Protection Area.



**Caledon East Well no. 2** is deemed groundwater under direct influence of surface water (GUDI) well with effective in-situ filtration. **Caledon East Well no. 3** is deemed groundwater.

Treatment processes for Caledon East Well no. 2 are located at Caledon East Well no. 3. Raw water from Well no. 2 is pumped to Caledon East Well no. 3 treatment facility.

**Caledon East Well no. 2** water treatment consists of iron removal and disinfection. Iron is removed through oxidization by sodium hypochlorite followed by greensand filtration. The filtered water is treated with sodium hypochlorite and ultraviolet (UV) light irradiation for primary disinfection. Sodium hypochlorite is also used for secondary disinfection.

**Caledon East Well no. 3** water treatment consists of primary and secondary disinfection by sodium hypochlorite. Treated water from Well no. 3 may be blended with treated water from Well no. 2.

**Caledon East Well no. 4** is deemed groundwater. Water treatment process includes iron removal and disinfection. Iron is removed through oxidization by sodium hypochlorite followed by greensand filtration. Sodium hypochlorite is used for primary and secondary disinfection.

The Region of Peel constructed a new Booster Pumping Station and a transmission main to interconnect Palgrave and Caledon East Drinking Water Systems. Old Church Booster Pumping Station started its operation in September 2010 allowing both water systems to serve as back up water supply to each other. Palgrave and Caledon East systems have since been classified with the Ministry of the Environment (MOE) as one drinking water system with one water works number.

Caledon East drinking water system is monitored and controlled 24 hours per day, 7 days a week through a computerized Supervisory Control and Data Acquisition (SCADA) system.

Caledon East wells are equipped with stand-by power generators to ensure operation continuity in an event of a power failure.

#### **1.4 Municipal Waterworks of the Community of Cheltenham, Town of Caledon**

*Drinking Water Works Number: 260002590*

The communities of Cheltenham and Terra Cotta, with a total population served of 827, are serviced by two municipal wells, a water storage reservoir and a distribution network of about 14.8 kilometres of water mains and 95 fire hydrants. Cheltenham Wells no. 1 and 2 are within the Credit Valley Source Protection Area.

**Cheltenham Wells no. 1 and 2** are deemed groundwater and are housed in the same treatment building. Water treatment includes iron and manganese removal and disinfection. Iron and manganese are removed through oxidation by sodium hypochlorite and potassium permanganate followed by greensand filtration.

Sodium hypochlorite is used for primary and secondary disinfection.

Cheltenham drinking water system is controlled through a computerized Supervisory Control and Data Acquisition (SCADA) system that is monitored 24 hours per day, 7 days a week.

Cheltenham wells are equipped with a stand-by power generator to ensure operation continuity in an event of a power failure.

#### **1.5 Municipal Waterworks of the Community of Inglewood, Town of Caledon**

*Inglewood Drinking Water Works Number: 220004037*

The community of Inglewood, with a total population served of 1,122, is serviced by two municipal wells, a water storage reservoir and a distribution network of about 15.1 kilometres of water mains and 72 fire hydrants. Inglewood Wells no. 1, 2 and 3 are within the Credit Valley Source Protection Area.

**Inglewood Well no. 2** is a shallow well, suspected to be groundwater under direct influence of surface water (GUDI) well. Water treatment includes cartridge (membrane) filtration, ultraviolet (UV) light irradiation and primary and secondary disinfection by sodium hypochlorite. Ultraviolet (UV) light irradiation was added in 2012 to enhance primary disinfection.

**Inglewood Well no. 3** is screened in a deep sand and gravel aquifer. Water treatment includes iron removal and disinfection. Iron is removed through

oxidization by sodium hypochlorite followed by greensand filtration. Sodium hypochlorite is used for primary and secondary disinfection.

Inglewood drinking water system is controlled through a computerized Supervisory Control and Data Acquisition (SCADA) system that is monitored 24 hours per day, 7 days a week.

Inglewood wells are equipped with stand-by power generators to ensure operation continuity in an event of a power failure.

### **1.6 Municipal Waterworks of the Community of Palgrave, Town of Caledon**

*Drinking Water Works Number: 220003993 (Palgrave – Caledon East System)*

The communities of Palgrave, Centreville and Cedar Mills, with a total population served of 4,291, are serviced by three municipal wells, a water storage reservoir and a distribution network of about 75 kilometres of water mains and 134 fire hydrants. Palgrave Wells no. 2 and 4 are within the Toronto and Region Source Protection Area. Palgrave Well no. 3 is within the South Georgian Bay Lake Simcoe Source Protection Area.

**Palgrave Well no. 2 and 3** are deemed groundwater. Raw water from Well no. 2 is pumped to Well no. 3 for treatment. Treatment for Well no. 2 and Well no. 3 consists of iron removal and disinfection. Iron is removed through oxidization by sodium hypochlorite followed by greensand filtration. Sodium hypochlorite is used for primary and secondary disinfection.

Palgrave Well no. 4 is deemed groundwater. It was constructed in 2009 and started its operation in October 2010. Water treatment process consists of iron removal and disinfection. Iron is removed through oxidization by sodium hypochlorite followed by greensand filtration. Sodium hypochlorite is used for primary and secondary disinfection.

The Region of Peel also constructed a new Booster Pumping Station and a transmission main to interconnect Palgrave and Caledon East Drinking Water Systems. Old Church Booster Pumping Station started its operation in September 2010 allowing both water systems to serve as back up water supply to each other. Palgrave and Caledon East systems have since been classified with the Ministry of the Environment (MOE) as one drinking water system with one water works number.

Palgrave drinking water system is controlled through a computerized Supervisory Control and Data Acquisition (SCADA) system that is monitored 24 hours per day, 7 days a week.

Palgrave wells are equipped with stand-by power generators to ensure operation continuity in an event of a power failure.



## 2.0 Clean Water Act, 2006 Compliance

The *Clean Water Act, 2006*, came into effect on July 3, 2007 with the promulgation of the initial set of source water protection regulations. The focus of the legislation is to protect existing and future planned municipal sources of drinking water. The source protection process is driven by locally-based Source Protection Committees that consist of appointed representatives from municipal, industry, commerce and agricultural sectors and the public at large. The Region of Peel falls under the jurisdiction of three Source Protection Authorities as follows:

- Credit Valley-Toronto Region-Central Lake Ontario (CTC) Source Protection Area; most of the Region of Peel's groundwater and surface water intakes fall within this SPA.
- South Georgian Bay Lake Simcoe (SGBLS) Source Protection Area; only Palgrave Well no. 3 falls within this SPA
- Hamilton-Halton (H-H) Source Protection Area; none of the Region of Peel's groundwater systems or surface water intakes lies within this SPA.

Region of Peel has participated in the planning phases of the source protection planning by carrying out technical studies for assessment reports and policy development through Region of Peel's representation on the Source Protection Committees of the Credit Valley-Toronto Region-Central Lake Ontario (CTC) and South Georgian Bay Lake Simcoe (SGBLS) Source Protection Committees.

Source Protection Plans for H-H, CTC and SGBLS have been recently submitted to the Minister of Environment for approval. All three plans have significant drinking water threat policies. There are monitoring and reporting policies for all significant threat policies.

Region of Peel has obligation to comply with the Source Protection Plans once approved. Peel has started to prepare for the implementation of Part IV of the *Clean Water Act*. There are several steps that Peel has taken towards this which are summarized in the following sections of this report.

### 2.1 Appointment of Risk Management Official and Risk Management Inspector

In compliance with the *Act*, Council of the Region of Peel appointed Mark Schiller – Executive Director Water & Wastewater as Risk Management Official (RMO) to act on behalf of the Region of Peel, cities of Mississauga, Brampton and Town of Caledon on June 28th, 2012 through *Council Resolution 2012-825 (Council*

*Report attached as Appendix B*). Mr. Schiller is very knowledgeable in Peel's Water and Wastewater systems. He is also a resident of the Town of Caledon for a long time and has good relationship with the local community. He is qualified and has completed the required Risk Management Official certification by MOE.

Council also appointed Stefan Herceg as Risk Management Inspector (RMI) and approved the future appointment of more RMIs if needed on June 28th, 2012 through *Council Resolution 2012-825*. Peel has another qualified staff certified by the MOE who may be appointed RMI in future. More qualified staff of Water Division of Peel are scheduled to take the RMI training and certification in 2013.

Currently, RMO is putting together new business processes required to carry out RMO function in accordance with the legislation. Some of the steps taken are described below in this report.

## 2.2 Significant Drinking Water Threats Verification

Significant Drinking Water Threats were identified through assessment reports for the Region of Peel's groundwater systems, 77 threats on 32 properties were identified through assessment reports. The Region of Peel completed threats verification exercise on each identified property in 2012 and confirmed 63 threats on 39 properties in Caledon for the Region of Peel's groundwater systems. Most of the identified threats are related to existing septic systems and handling and storage of fuel. The Table below lists significant drinking water threats verified in the field in 2012.

**Table 1: Significant Drinking Water Threats in Peel**

Threat #	Threat Type	Verified # of Significant Threats
1	Waste Disposal	0
2	Sewage System (Septic)	28
3	The application of agricultural source material to land	1
4	The storage of agricultural source material	4
5	The management of agricultural source material	4
6	The application of non-agricultural source material to land	0
7	The handling and storage of non-agricultural source material	0
8	The application of commercial fertilizer to land	1
9	The handling and storage of commercial fertilizer	0
10	The application of pesticide to land	0

11	The handling and storage of pesticide	0
12	The application of road salt	0
13	The handling and storage of road salt	0
14	The storage of snow	0
15	The handling and storage of fuel	11
16	The handling and storage of dense non-aqueous phase liquid	10
17	The handling and storage of an organic solvent	0
18	The management of runoff that contains chemicals used in the de-icing of aircraft	0
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	0
20	An activity that reduces the recharge of an aquifer	0
21	The use of land as livestock grazing or pasturing land, an outdoor confinement	4
	Total Significant Drinking Water Threats	63

Orangeville's Well no. 10 is situated within the geographical boundaries of the Region of Peel in Caledon. Currently, a threats verification exercise is also being carried out by the Region of Peel for this well. RMO will negotiate a mechanism with the Town of Orangeville to address the requirements of the Source Protection Plans for this well. The discussions have not yet started between the parties.

### 2.3 Database and Records Management System

RMO has prepared a draft data and records management system using Region of Peel's existing Electronic Information Management Software (EIM). It is being developed keeping in mind the legislated requirements of records retention and availability to public for 15 years of the documents.

### 2.4 New Business Processes Set-up

Considering the proposed Source Protection Plans and Policies, new business procedures will be required to ensure that the development applications under the *Planning Act* and the *Building Code Act* in vulnerable areas are pre-screened by the RMO for compliance. Currently, Chief Building Officials are responsible for the applications under the *Building Code Act* and are the employees of the lower tier municipalities in the Region of Peel. Discussions between the Town of Caledon officials and RMO will be commencing soon to confirm a smooth

process for applications review, documentation and any other requirements under the *Clean Water Act* in future.

Private Septic systems are regulated under the *Building Code Act*. Identified existing septic systems within the vulnerable areas are required to go through septic re-inspections in compliance with the *Clean Water Act* in the Town of Caledon by 2017. Currently, the Region of Peel is exploring how this can be accomplished. Discussions will be commencing soon between the Town of Caledon Officials and RMO to define a programme and funding mechanism to carry out septic re-inspections and maintenance (if required) before 2017.

There may be septic systems confirmed through the ongoing threats verification exercise for Orangeville Well no. 10. In that case, discussions will be carried out between the RMO and Town of Orangeville for funding mechanism.

## **2.5 Anticipated Development Applications**

RMO office has also started to review the proposed development in the vulnerable areas in Peel under the *Planning Act* for an estimate of how many applications will need to be reviewed during a calendar year. It will give a better understanding of how much staff time will be required and what should be the associated fee. This task will be completed in 2013.

## **2.6 Anticipated Risk Management Plans**

RMO office has started to review the proposed Source protection Plans and Policies to estimate how many Risk Management Plans will need to be negotiated for Peel's threats. It will give a better understanding of how much staff time will be required and what should be the associated fee. This task will be completed in 2013.

## **2.7 Applications Reviewed under the Planning Act or Condominiums Act**

The new business process has not yet been set up to pre-screen development applications by RMO in vulnerable areas. The RMO was circulated with some development applications after his appointment in 2012 for review. Following provides a summary:



### **2.7.1 Equestrian Park Site Plan – Town of Caledon**

Town of Caledon's Equestrian Park is located in close proximity to Palgrave Wells no. 2, 3 and 4. Equestrian Park is official venue for Pan Am Games 2015. In preparation for the upcoming games, park will undergo significant improvements including new facilities and upgrades to the site.

A Site Plan was submitted to RMO in November 2012 showing future changes and upgrades to the facility. A number of stormwater infiltration facilities, sediment basins, septic beds and some sanitary sewers were proposed initially. RMO reviewed the Plan and confirmed that all of the proposed work except for two infiltration facilities (sediment basins) was outside of the vulnerable areas for Palgrave Wells. RMO advised the proponent that two sediment basins (one of which was proposed to have bio-filter) were located within Well Head Protection Area (WHPA) B of the Palgrave Well No.3. This well is located within the South Georgian Bay Lake Simcoe (SGBLS) Source Protection Area and its WHPAs extend to Credit Valley Toronto and Region and Central Lake Ontario (CTC) Source Protection Area. Hence, RMO reviewed the proposal in light of Proposed CTC and SGBLS Source Protection Plans. According to CTC Plan, policies Swg 11 and Swg 12 may apply which means that future infiltration facility is prohibited in WHPA of vulnerability score of 10. The vulnerability score for this area was estimated to be 8. Policy LUP-3 of Proposed SGBLS Plan may be applicable which asks of locating the infiltration facilities outside the vulnerable areas where it would be a significant threat. It can be a significant threat in WHPA B with vulnerability score of 10.

RMO met on site with the proponent and consultants in November 2012. He had asked that the sediment basins be moved outside of the WHPA B of Palgrave Well No. 3. The proponent was advised to revise and re-submit the Site Plan by removing these. The revised Site Plan was submitted in January, 2013. The sediment basins were removed from the Plan and hence, addressed the Risks to RMO's satisfaction. A letter to proceed with the proposal was issued to the proponent by RMO on January 17, 2013 (Appendix C).

### **2.7.2 Halls Lake Subdivision – Town of Caledon**

Halls Lake Estate Subdivision Palgrave Town of Caledon was reviewed by RMO's office in November 2012 for any concerns with regards to Palgrave Wells no. 2, 3 and 4. RMO had no concerns with this proposal for source water protection since the proposed subdivision is outside of the vulnerable areas (Appendix C).

### **2.7.3 Town of Erin – Application for Official Plan/ Zoning By-Law Amendment**

In November 2012, RMO's office was asked to provide comments on proposal for "Town of Erin Official Plan and Zoning By-law Amendment" to permit the development of a mixed use residential, commercial and industrial community comprised of 1240 residential units on concession:10 and 11 lot: Parts of 16 and 17 in the Town of Erin County of Wellington.

RMO had no concerns with this proposal since; the proposal was not within or close to the vulnerable areas for the Region of Peel wells (Appendix C).

### **3.0 Other Initiatives**

The Region of Peel is committed to provide high quality safe and adequate volumes of drinking water to its residents. Continuous efforts have been in place to ensure safe and efficient water supply with changing demands. Some inefficient or less reliable systems are being abandoned and new water supply options are being explored to address the existing population and future growth. Peel is one of the leading municipalities in Ontario with highly advanced well head protection program in place. A number of initiatives have been undertaken by Peel under the direction of the Executive Director of the Water and Wastewater Division for the Region of Peel who also is the RMO. Some of those initiatives are briefly summarized in this report as follows:

#### **3.1 Well Head Protection Areas Monitoring Program**

The Region of Peel completes annual water level and water quality monitoring within the Well Head Protection Areas at the communities of Alton, Caledon East, Caledon Village, Cheltenham, Inglewood and Palgrave in the Town of Caledon. This is an ongoing program since 2004 in compliance with the Permit to Take Water conditions imposed by the Ministry of the Environment for each individual system to improve the understanding of the groundwater and surface water behaviour from the municipal water takings. The program investigates potentially effect on shallow and surface water sources that support local habitat as well as assesses the zones of influence from operating the municipal wells. Water Quality analysis is also undertaken at observation wells as an early detection of pollutants

The program has been constantly adjusted to the source protection initiatives and it will also be re-adjusted once the policies and threats evaluations are completed. At the same time and as part of the Regional best practices, the Water Quality and Compliance group is constantly searching for best alternatives to manage the project.

#### **3.2 Drinking Water Quality Management System**

Every year, the Region of Peel prepares annual water quality reports for all of its drinking water systems. The requirement for this report is legislated by the *Safe Drinking Water Act, 2002, (SDWA)* and its regulations. The reports highlight the operational performance in relation to quality of water produced and supplied to the consumers. They outline test results for samples collected during the reporting period and quantities of water taken and produced. They also provide

information on Peel's compliance with the SDWA, including results of the MOE inspections and response to enquiries (complaints) from the customers.

In summary, for 2012:

- Quality of water supplied to the consumers met the Ontario Drinking Water Quality Standard.
- MOE inspections resulted in 100% scorecard for all of Peel's groundwater systems (Caledon Village-Alton, Inglewood, Cheltenham and Palgrave-Caledon East) and 98.72% for Lakeview System and 97.40% for the Lorne Park system.
- Dealt with and resolved 28 adverse water quality events. 25 events were related to Lake based system and only 3 for groundwater based system
- All events had been responded to in accordance with the legislated requirements and action taken to prevent the incidents from reoccurring.
- Responded and resolved to 1026 enquiries from the customers with the majority of calls related to Taste and Odour in water (212), Water Pressure problems (209), Discoloured Water (228) and requests for information (248). It is difficult to breakdown but approximately, 945 inquiries were related to Lake based system and 81 related to groundwater based system. Our target is to respond to all enquiries and resolve the complaints/concerns to the resident's satisfaction.

The Region of Peel's Annual Water Quality Reports can be viewed online at

<http://www.peelregion.ca/pw/water/quality/reports/>

In 2012, the Region of Peel also maintained its Quality Management System and conformed to the Drinking Water Quality Management Standard (DWQMS). We met our commitment to provide safe and reliable drinking water, to ensure compliance with provincial regulations and to effectively manage the water systems.

Annual Internal Audits and Management Reviews confirm a successful implementation of the quality management system at Peel; our systems remain accredited under the Ontario Drinking Water Quality Management Standard.

### **3.3 Existing Wells abandonment and New Wells Exploration**

Region of Peel has several ongoing studies to identify additional water supply to service existing and future population while evaluating the possibility of shutting down other wells that may have not been operating at their maximum capacity or are at a higher risk under Source Water Protection; such as Caledon East Well no. 2 and Inglewood Well no. 2. Following is a brief update:



### **3.3.1 Caledon East Ground Water System**

The Region of Peel is undertaking a Schedule C Municipal Class Environmental Assessment study to identify additional water supply to service the planned population growth in Caledon East up to the year 2031. The project is currently in the groundwater exploration stage with one test hole drilled in 2012. Additional test hole(s) will be advanced in 2013 to determine if a viable supply can be identified.

### **3.3.2 Alton Ground Water System**

A Schedule C Municipal Class Environmental Assessment is being undertaken to identify additional water supply to service the proposed population growth for Alton up to 2031. This project is currently in the groundwater exploration stage with three test holes drilled in 2012; one of which was completed as a test well (TWA2). A pumping test was completed on TWA2 in December 2012; results of which are not yet received.

### **3.3.3 Caledon Village**

A new production well was constructed in 2009 at the Caledon Village 3 well field approximately 30 m northwest of the existing well to address the inefficiencies. This new Caledon Village well will replace the existing Caledon Village 3A and is anticipated to come into service by summer 2013.

### **3.3.4 Palgrave Well No.1 De-commissioning**

Region of Peel's Palgrave Well no. 1 located at 63 Gibson Lake Drive, Caledon previously serviced the community of Palgrave and was taken out of service in 2004 due to inadequate capacity. The Region of Peel intends to retire this well as required by the Ministry of the Environment under *O. Reg. 903* and demolish the unused pumping station building. The anticipated schedule for this project is spring/summer 2013.

## **3.4 Cheltenham Water supply Alternative**

Communities of Cheltenham and Terracotta in Caledon have a close proximity to Region of Peel's lake based water supply. Due to the proximity of the lake based system, overall cost and the potential impact of proposed Source Protection Plans and Policies on the community, it may be preferable to extend the lake

based system to this community to protect existing and future groundwater sources. Peel is currently, preparing a report to the Minister of the Environment analyzing the benefits and risks of lake based water supply versus ground water to these communities. Since, the community of Terra Cotta and Cheltenham are located within the Greenbelt area and some of the policies govern the extension of lake based system to these areas, this initiative needs to meet the requirements outlined in these policy statements.

## **4.0 Education and Outreach**

Education and outreach by the Region of Peel supports and complements Peel's Water Efficiency Strategy by continuing to foster environmental stewardship in Peel, and building capacity within the community to empower residents and businesses to make positive changes. Education and Outreach is not only about creating public awareness of Peel's water, wastewater, and water efficiency programs and services, it is also an important tool for raising awareness of environmental issues and establishing desired behavioural changes. Peel is undertaking several initiatives to achieve this which are summarized as follows:

### **4.1 In-class Water Story Presentations**

These curriculum based in-class presentations complement the Ontario Curriculum's learning expectations for social studies and science and technology. Students learn about water treatment processes and water conservation initiatives. In-class presentations are available throughout the school year. For 2012 staff engaged 3330 students through in-class presentations

The Peel Water Story is an interactive, multimedia resource that goes beyond the classroom to show teachers how to connect their existing water education to the world around them and link lessons and knowledge about water to the schoolyard and community. To complement the curriculum resource, the Peel Water Story Bus Tour was developed to provide teachers with a full day tour of Peel's natural and human water systems. Experts in the field bring to life water concepts covered in the classroom.

### **4.2 Water and Wastewater Treatment Facility Tours**

These guided tours of the Region of Peel's leading-edge water and wastewater treatment facilities are offered to middle and secondary school students, adult education groups, and professional associations. The tours showcase how water and wastewater are treated by the Region of Peel. Over the course of a year, approximately 1,000 individuals participate in the tours. For 2012, staff engaged 477 students through tours of the G.E. Booth wastewater treatment facility.

### **4.3 Peel Children's Water Festival (PCWF)**

The PCWF is an annual environmental education event, which provides learning opportunities to elementary school students and Peel residents. This event offers more than 50 practical and interactive activities that teach participants about important environmental issues related to the protection and stewardship of water resources and water and wastewater treatment. The 2012 PCWF welcomed 5,564 students and 741 teachers and parent chaperones to the event.

### **4.4 Community Events**

Peel's Public Works Department participates in over 100 special events annually in the Peel community. These events range from Councillor forums to fall fairs. On a yearly basis, Region of Peel representatives have the opportunity to highlight water conservation programs and services to over 15,000 people at these events. For 2012, staff participated in 21 event focused on creating awareness about water and wastewater operations and water efficiency programming.

### **4.6 Watersmartpeel.ca**

The Water Smart Peel website offers more than just program details: it provides residents with the opportunity to learn more about water efficiency within their homes, such as how to check for and repair leaks. The website is a resource for customers applying for the rebate programs and registering for Fusion Landscaping® Consultations. For Industrial, Commercial, and Institutional customers it provides information on programs and case studies on indoor and outdoor water reduction.

## 5.0 Lake Ontario Initiatives

Quantitative Microbial Risk Assessments (QMRAs) for the treatment processes at Lakeview and Lorne Park Water Treatment Plants (WTP) were completed in 2012. The study concluded that the both WTPs provide very high quality drinking water. The level of public health risk from this water is at least ten times lower than the World Health Organization and Health Canada acceptable level of risk for drinking water.

## **Appendices**

### **Appendix A: Region of Peel Well Head Protection Areas**

#### **Appendix B**

- Report PW-F1-1 – Clean Water Act Requirements - Appointment of Risk Management Official and Risk Management Inspector and Update on Source Water Protection
- Certificate of Appointment of RMO and RMI

### **Appendix C: Applications Reviewed under the Planning Act or Condominiums Act**

- Equestrian Park Site Plan – Town of Caledon
- Halls Lake Subdivision – Town of Caledon
- Town of Erin – Application for Official Plan/ Zoning By-Law Amendment

# Appendix A



# Appendix B

PW-FI-1

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DATE: May 9, 2012

REPORT TITLE: **CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION**

FROM: Dan Labrecque, Commissioner of Public Works

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#### **RECOMMENDATION**

**That the appointment of Mark Schiller as Risk Management Official (RMO) for the Region of Peel (the Region) under the *Clean Water Act, 2006* (the Act), be approved;**

**And further, that the appointment of Mark Schiller and Stefan Herceg as Risk Management Inspectors (RMIs) for the Region under the Act, be approved;**

**And further, that the Commissioner of Public Works or his or her designate be delegated authority to appoint additional RMIs, into existing compliment responsibilities for the Region under the Act, as needs arise, be approved;**

**And further, that the CTC Source Protection Authority be requested to designate Mark Schiller, Stefan Herceg and future RMIs power of entry under Section 88 of the Act;**

**And further, that the Regional Clerk issue a certificate of appointment bearing the Clerk's signature for RMO and RMIs under the Act;**

**And further, that the report of the Commissioner of Public Works, dated May 9, 2012, titled "*Clean Water Act Requirements – Appointment of Risk Management Official and Inspector and Update on Source Water Protection*" be circulated to the Clerks of City of Mississauga, City of Brampton and Town of Caledon; to the Chair of the South Georgian Bay Lake Simcoe Source Protection Committee; to the Chair of Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Committee; to the Chair Hamilton-Halton Source Protection Committee and to the Ministry of Environment (MOE), by the Regional Clerk.**

May 9, 2012

## CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION

### REPORT HIGHLIGHTS

- Under the *Act*, the municipality responsible for water supply is responsible for the implementation of the Source Protection Plans and policies in its area.
- Draft Source Protection Plan and policies are being prepared by Source Water Protection Committees and will be submitted to the MOE by August 2012 for approval.
- Part IV – Implementation of the *Act* requires the appointment of the RMO and RMI, to prepare and implement Risk Management Plans, monitor and report as per the *Act*.
- The Region had recommended to the MOE that these new provincially regulated positions could be undertaken within existing job responsibilities reducing the financial impact of the new regulation, which was accepted by the MOE.
- The *Act* is now “applicable law”. Planning and Building Officials will have to work with the RMO for the release of building permits in the future to meet new policies that will be implemented within well head protection areas, primarily in Caledon.
- Regional and Municipal Official Plans and Zoning By-laws must be brought into conformity with the Source Protection Plan, when approved by the MOE.

### DISCUSSION

#### 1. Background

Following the Walkerton tragedy, the Province of Ontario enacted the *Act* and the associated Regulations to ensure that municipal drinking water supplies are safe at source. The implementation of the *Act* is a highly regulated process, with specific deliverables and extensive public consultation at each stage of delivery. The *Act* has prompted the formation of the Source Protection Authorities and Committees in Ontario, which are administered by the conservation authorities. The Source Protection Committees are comprised of representatives from municipalities, agriculture and economic sectors, public appointees, first nations and representatives appointed by the Province. The mandate of the Committees is to develop a science-based Source Protection Plan and policies for each Source Protection Area, to ensure the protection of existing and future municipal drinking water sources.

The Source Protection Committees' Terms of Reference were approved by the MOE in 2009. The Assessment Report, identifying the vulnerable areas and potential threats to municipal drinking water sources, was approved by the MOE in 2011.

The draft Source Protection Plans and Policies are in the final stages of being finalized in accordance with the *Act*. This includes pre-consultation with the municipalities that may have some responsibilities when the Source Protection Plans are implemented.

Formal public consultation began in April/May 2012. Public consultations will be completed before submitting the final draft Source Protection Plans to the MOE by August 2012. The Minister of Environment will review and approve the final Source Protection Plans and Policies for Source Protection Regions in Ontario. Once approved, the municipality responsible for water supply is responsible for the implementation of the Source Protection Plans and Policies in its area.

As the provider of safe drinking water, the Region will be required to deliver a risk management program to protect source waters.

May 9, 2012

**CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION**

**a) Overview of Draft Policies**

Risk Assessment studies, carried out as part of this exercise, established the Well-Head Protection Areas (WHPAs) and Intake Protection Zones (IPZs) in the Region. Significant drinking water quality threats (SDWTs) were identified for every WHPA and IPZ. For the Region wells, 77 threats on 32 properties have been identified which are currently being verified at each property. Most of the issues identified are water quality threats, associated with septic systems and fuel.

The threats listed below are based on a paper exercise developed by the MOE and the number of threats are anticipated to be reduced by field verification, which is almost complete in Caledon.

Threat #	Threat Type	# of Significant Threats
1	Waste Disposal	0
2	Sewage System (Septic)	28
3	The application of agricultural source material to land	3
4	The storage of agricultural source material	4
5	The management of agricultural source material	0
6	The application of non-agricultural source material to land	3
7	The handling and storage of non-agricultural source material	0
8	The application of commercial fertilizer to land	2
9	The handling and storage of commercial fertilizer	2
10	The application of pesticide to land	1
11	The handling and storage of pesticide	2
12	The application of road salt	0
13	The handling and storage of road salt	0
14	The storage of snow	0
15	The handling and storage of fuel	13
16	The handling and storage of dense non-aqueous phase liquid	14
17	The handling and storage of an organic solvent	1
18	The management of runoff that contains chemicals used in the de-icing of aircraft	0
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body	0
20	An activity that reduces the recharge of an aquifer	0
21	The use of land as livestock grazing or pasturing land, an outdoor confinement	4
	<b>Total significant Threats subject to field verification Spring 2012</b>	<b>77</b>

The *Act* allows for a wide range of tools to address the existing and future threats. These tools include Prohibition, Risk Management Plans, Monitoring, Education and Outreach. Every Source Protection Area has developed their own set of policies with a mix of tools including Provincially Prescribed Instruments like the *Aggregate Resources Act*, *Nutrient*

May 9, 2012

**CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION**

*Management Act*, MOE Certificate of Approvals and other Land use planning provisions. Although the local (lower tier) municipalities do not own or operate the Regional water supply system, the *Act* and draft policies may assign responsibilities to them. The *Act* is now "applicable law" in the Ontario Building Code, and local Building Officials may be responsible for septic tank re-inspection programs and obtaining RMO approval prior to the release of building permits for specified activities in WHPAs. Annual reporting requirements to the Source Protection Authority on the number of inspections completed in wellhead protection areas are proposed in current draft policies. The numbers in Caledon are small and will be consolidated into the Region's reporting requirements.

All planning decisions, including those made by the Ontario Municipal Board, must be consistent with the approved Source Water Protection Plan. The Region's and local Municipalities Official Plans and Zoning By-laws must be brought into conformity with the Source Protection Plan. The appropriate staff, from local municipalities and the Region, will take part in the review of the draft policies. There will be ongoing discussions between the staff regarding conformity exercises and defining clear roles and responsibilities. The RMO from the Region will lead these discussions.

Once the Source Protection Plan and Policies are approved by the MOE, the municipalities must implement them. Part IV – Implementation of the *Act* requires the appointment of the RMO and RMI, and to prepare and implement the Risk Management Plans, monitor, and report as per the *Act*. When the MOE was developing these mandatory positions, as part of the regulation, the Region requested they allow for the responsibilities to be incorporated into existing positions where possible. The MOE accepted this as an option, which would reduce the financial impact, while still satisfying the regulations requirements. While some municipalities have already hired new RMOs and RMIs, the Region is in an excellent position to incorporate these responsibilities into existing positions, requiring no additional compliment. The Region has had a Well Head Protection Program in place since the 1990's and a proven track record of providing safe potable water. Source Water Protection Plans reinforce existing Regional programs, while providing new tools to reduce or eliminate the threats identified. The MOE and third party auditor have approved the Region's Drinking Water Quality Management System (DWQMS), which is managed by the Water Quality and Compliance Section within the Regional Water Division. The Source Water Protection Plans will be built into the Region's DWQMS, which is subject to a third party audit. The RMI responsibilities under Source Water Protection will be incorporated into some existing positions that are responsible for monitoring water treatment and compliance within the DWQMS. The RMO responsibilities will be incorporated into the Director of Water position. Mark Schiller has long term knowledge of the Regional water systems, he is a member of the CTC Source Water Protection Committee and has chaired the technical studies for the Lake Ontario Collaborative for Source Water Protection on behalf of the MOE and area Municipalities, from Niagara to the Bay of Quinte in Eastern Ontario.

**b) Regional Council Responsibility - Appointment of Risk Management Official and Inspectors**

In order to enforce the powers under Part IV of the *Act*, Regional Council must appoint the RMO and RMIs.

The RMO will have the following responsibilities as set out under the *Act*:

- Negotiate/establish interim Risk Management Plans and final Risk Management Plans
- Evaluate risk assessments that conclude an activity is not a significant drinking water threat

May 9, 2012

## CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION

- Issue orders and notices
- Cause things to be done
- Issue orders to pay
- Attend Environmental Review Tribunal meetings
- Annually report to the Source Protection Authority
- Interact with municipal departments, depending on the situation

The responsibilities of the RMI as specified in the *Act*, include:

- Entry powers to conduct inspections to ensure compliance with interim Risk Management Plans
- Authorized to issue compliance orders to deal with non-compliance under Part IV
- Attend Environmental Review Tribunal Meetings
- Interact with other municipal departments, depending on the situation
- When entering property under Section 62 – if the RMI becomes aware of a drinking water health hazard the MOE must immediately be notified

Through this Report, it is recommended that Regional Council appoint one RMO and one RMI and approve additional RMIs in future as needed. At the current time the MOE has realized that the current regulation does not provide powers of entry to the RMO, even though this position must be trained and certified to do so. MOE staff are recommending that the regulation be changed to accommodate property entry by the RMO, however, until that is changed it is implemented, that the RMO also be designated as an RMI as well. In accordance with the *Act*, the Regional Clerk is required to issue a certificate to each appointee. Mark Schiller and Stefan Herceg have passed the necessary MOE training to undertake these new responsibilities and require final approval by Regional Council.

### FINANCIAL IMPLICATIONS

Currently, there is no funding commitment from the Province of Ontario to implement the Source Protection Plan. The MOE is undertaking an assessment of the potential cost implications to municipalities. It is anticipated that municipalities providing water servicing will have to include these costs into their rate. At this time, there are no significant financial implications to the Region's current budget as we prioritized our internal workload to undertake these new responsibilities. The appointment of a RMO and RMI does not require new staff. It is proposed that these positions be incorporated into existing staff roles and responsibilities. Future RMIs may also be appointed into existing positions, as they become licensed by the MOE, which will provide flexibility.

The 2012 Capital budget for Source Water Protection was funded annually at \$120,000 until 2014. This will allow for additional technical work and monitoring that may be required as part of the MOE approving the final plan. The Regulation allows for fees being developed for inspections and other requirements, which will be developed in consultation with those area Municipalities that may be impacted.

May 9, 2012

**CLEAN WATER ACT REQUIREMENTS - APPOINTMENT OF RISK MANAGEMENT  
OFFICIAL AND INSPECTORS AND UPDATE ON SOURCE WATER PROTECTION**



Dan Labrecque  
Commissioner of Public Works

**Approved for Submission:**



D. Szwarc, Chief Administrative Officer



*For further information regarding this report, please contact Mark Schiller at extension 4394 or via email at [Mark.Schiller@peelregion.ca](mailto:Mark.Schiller@peelregion.ca)*

c. Legislative Services



**CERTIFICATE OF APPOINTMENT OF  
RISK MANAGEMENT OFFICIAL AND RISK MANAGEMENT INSPECTORS**

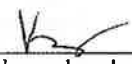
Whereas, subsection 47 (6) of the *Clean Water Act, 2006*, S.O. 2006, c. 22 (the "Act"), provides that the council of a municipality that is responsible for the enforcement of Part IV of the *Act* shall appoint a risk management official and such risk management inspectors as are necessary for that purpose;

And whereas, subsection 47 (7) of the *Act* provides that the clerk of the municipality shall issue a certificate of appointment bearing the clerk's signature or a facsimile of it to the risk management official and each risk management inspector appointed by the municipality;

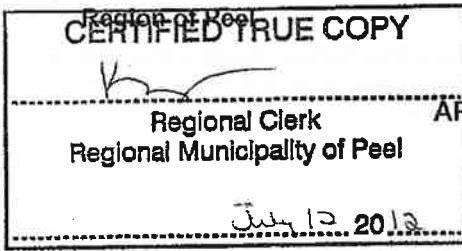
And whereas, on June 28, 2012, the Council of The Regional Municipality of Peel adopted Resolution 2012-825 attached hereto appointing the Risk Management Official and the Risk Management Inspector for the municipality in accordance with the *Act*;

I, Kathryn Lockyer, Director and Regional Clerk for The Regional Municipality of Peel, hereby certify that in accordance with the *Act* on June 28, 2012 The Regional Municipality of Peel's Council approved the appointment of:

1. Mark Schiller as Risk Management Official for the Region of Peel under subsection 47(6) of the *Act*; and
2. Mark Schiller and Stefan Herceg as Risk Management Inspectors for the Region of Peel under subsection 47(6) of the *Act*.

Per:   
Name: Kathryn Lockyer  
Title: Director of Clerk's and  
Regional Clerk  
Date: July 25, 2012

I have authority to bind the Corporation.



APPROVED AT REGIONAL COUNCIL  
June 28, 2012

PW-F. WATER

PW-F1. **Clean Water Act Requirements - Appointment of Risk Management Official and Inspectors and Update on Source Water Protection**

Moved by Councillor Morrison,  
Seconded by Councillor Moore;

That the appointment of Mark Schiller as Risk Management Official (RMO) for the Region of Peel (the Region) under the *Clean Water Act, 2006* (the *Act*), be approved;

And further, that the appointment of Mark Schiller and Stefan Herceg as Risk Management Inspectors (RMIs) for the Region under the *Act*, be approved;

And further, that the Commissioner of Public Works, or his or her designate be delegated authority to appoint additional RMIs, into existing complement responsibilities for the Region under the *Act*, as needs arise, be approved;

And further, that the CTC Source Protection Authority be requested to designate Mark Schiller, Stefan Herceg and future RMIs power of entry under Section 88 of the *Act*;

And further, that the Regional Clerk issue a certificate of appointment bearing the Clerk's signature for RMO and RMIs under the *Act*;

And further, that the report of the Commissioner of Public Works, dated May 9, 2012, titled "*Clean Water Act Requirements - Appointment of Risk Management Official and Inspector and Update on Source Water Protection*" be circulated to the Clerks of City of Mississauga, City of Brampton and Town of Caledon; to the Chair of the South Georgian Bay Lake Simcoe Source Protection Committee; to the Chair of Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Committee; to the Chair Hamilton-Halton Source Protection Committee and to the Ministry of Environment (MOE).

Carried

2012-825

# Appendix C

January 17, 2013

Mr. Marc Seguin  
Town of Caledon  
6311 Old Church Road,  
Caledon East, ON L7C 1J6

Dear Mr. Seguin,

**RE: Comments on the Equestrian Park, Site Plan - December 2012**

Ontario's *Clean Water Act, 2006* (CWA) requires that all applications under the *Planning Act* or *Condominiums Act* must be screened for vulnerable areas around the Region of Peel's municipal wells by the Region's Risk Management Official appointed under the CWA. In compliance with the *Act*, I have reviewed your proposal and provide the following comments:

**General Comments**

Region of Peel has its Palgrave Wells No. 3 and 4 in close proximity to Equestrian Park, 200 Pine Avenue Palgrave, Caledon. The Site Plan for re-development and expansion submitted in November, 2012 for review had a number of stormwater infiltration facilities, sediment basins, septic beds and some sanitary sewers proposed. Two proposed sediment basins were shown to be within the Well Head Protection Area (WHPA) B which is 2 years time of travel distance from the Palgrave Well No. 3. This well lies in the jurisdiction of the South Georgian Bay Lake Simcoe (SGBLS) Source Protection Region and its WHPA B also extends to Credit Valley, Toronto and Region Central Lake Ontario (CTC) Source Protection Region. Proposed Source Protection Plans for SGBLS and CTC have now been finalized and submitted to the Minister of Environment for approval on October 22, 2012. Both Plans have policies which require the infiltration facilities to be located outside of the vulnerable areas.

I would like to thank you for the opportunity to review the proposal and work with you to avoid any potential adverse impacts to the wells. During the review of this proposal, we had several site visits and discussion among ourselves in November, 2012. Finally, a consensus was reached to remove the proposed sediment basins from the Well Head Protection Area B of Palgrave Well No. 3.

As a result, the revised Site Plan and Stormwater Management Implementation report for Caledon Equestrian Park submitted on January 09, 2012 confirms that the proposed Sediment Basins are removed from Well Head Protection Area B of Palgrave Well No.3 and addresses the Risks to our satisfaction. You are in turn approved to proceed with the proposed development.

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**Public Works**

10 Peel Centre Dr., Suite A, Brampton, ON L6T 4B9  
Tel: 905-791-7800 [www.peelregion.ca](http://www.peelregion.ca)

Mr. Marc Seguin  
November 14, 2012  
Page - 2 -

I was very pleased how we worked together in a very short time frame in order to keep this important project moving forward while addressing Source Water Protection issues under the *Clean Water Act, 2006*. If I can be of further assistance please let me know.

Yours truly,



Mark Schiller  
Executive Director, Water and Wastewater Divisions  
Risk Management Official, Clean Water Act

Attachment

c:

Emil Kolb, Regional Chair Region of Peel  
Mayor Marolyn Morrison, Town of Caledon  
Councillor Richard Whitehead  
Councillor Nick deBoer  
Dan Labrecque, Region of Peel  
Glenn Middlebrook, Town of Caledon  
Mike Fenning, Toronto and Region Conservation Authority  
Beverly Thorpe, CTC Source Protection Authority  
Ben Longstaff, SGBLS Source Protection Authority  
Jim Firth, Crozier and Associates  
John MacDonald, John MacDonald Architect  
Jennifer Maestre, Region of Peel  
Kennedy Self, Region of Peel  
Tom Slomke, Region of Peel

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**Public Works**

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**From:** Banuri, Syeda  
**Sent:** November 14, 2012 1:53 PM  
**To:** Motala, Imran  
**Subject:** Halls Lake Estate Subdivision - RMO office screening

Ontario's *Clean Water Act, 2006* (CWA) requires that all applications under the *Planning Act* or *Condominiums Act* must be screened for vulnerable areas around the Region of Peel's municipal wells by the Region's Risk Management Official (RMO) appointed under the CWA. In compliance with the *Act*, RMO office has reviewed your proposal and provide the following comments:

**Comments:**

The proposed development is outside of the vulnerable areas for Palgrave wells nos. 2, 3 and 4. Hence, the proposed Source Protection Plans and Policies do not apply to the proposed Halls Lake Estate Subdivision.

If you have any further questions, please do not hesitate to contact the undersigned.

Thanks.

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Project Manager

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**From:** Banuri, Syeda  
**Sent:** November 16, 2012 1:02 PM  
**To:** Motala, Imran  
**Cc:** Schiller, Mark  
**Subject:** Town of Erin- Application for Official Plan/Zoning By-Law Amendment - RMO office screening

Ontario's *Clean Water Act, 2006* (CWA) requires that all applications under the *Planning Act* or *Condominiums Act* must be screened for vulnerable areas around the Region of Peel's municipal wells by the Region's Risk Management Official (RMO) appointed under the CWA. In compliance with the *Act*, RMO office has reviewed proposal for "Town of Erin Official Plan and Zoning By-law Amendment" to permit the development of a mixed use residential, commercial and industrial community comprised of 1240 residential units on concession: 10 and 11 lot: Parts of 16 and 17 in the Town of Erin County of Wellington.

The proposed development is outside of the vulnerable areas for Region of Peel wells. Hence, the office of the Risk Management Official of the Region of Peel has no concerns with this proposal.

If you have any further questions, please do not hesitate to contact the undersigned.

Thanks.

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