

# Source Protection Implementation City of Hamilton

**Carmen Vega**

Senior Project Manager, Hamilton Water

**Source Protection Committee Meeting**

**Tuesday March 22nd, 2016**

*Providing services that bring our City to life !*

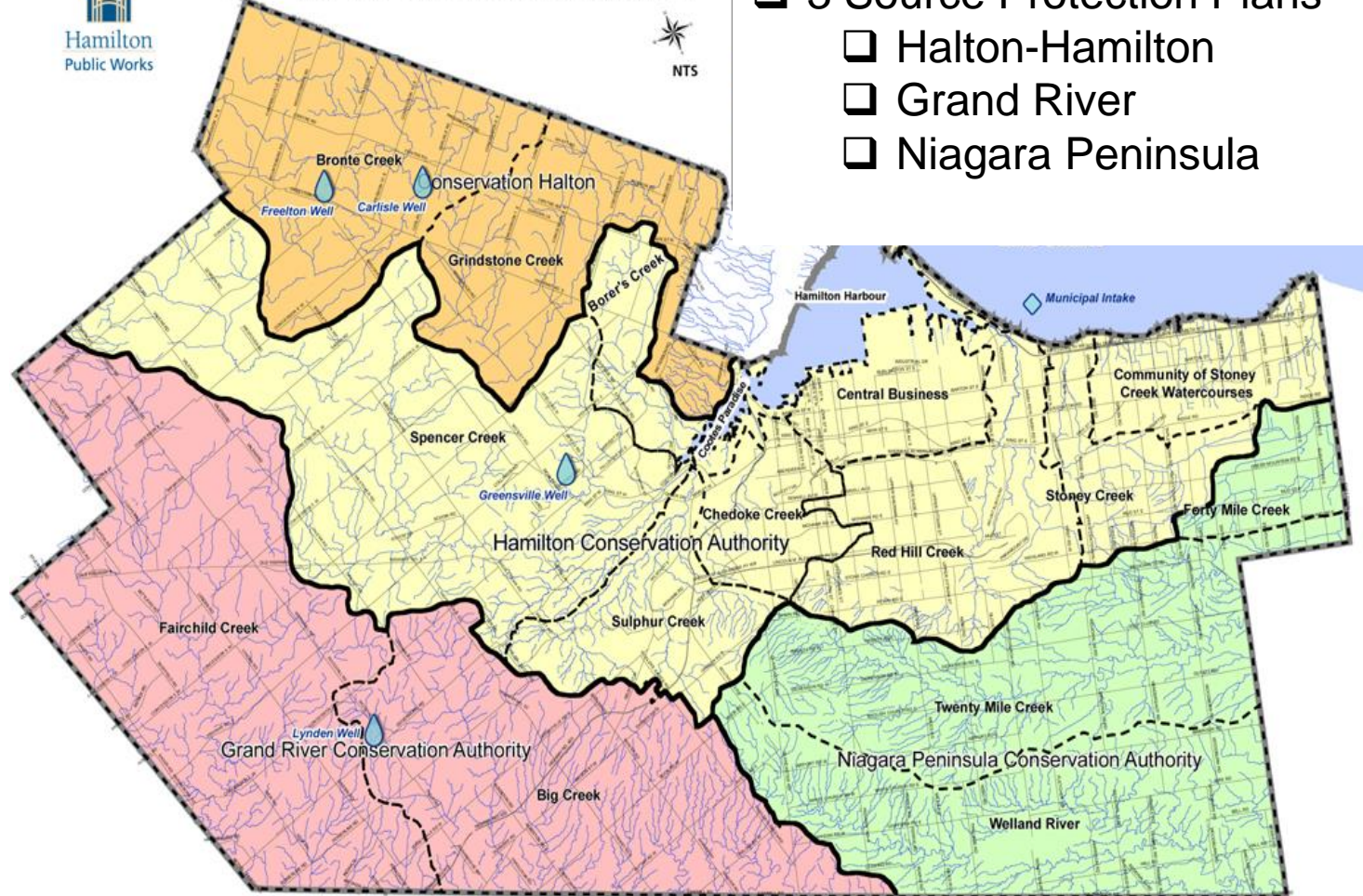
# City of Hamilton



- Community
- People
- Processes
- Finance



The City of Hamilton Watersheds



- 4 Watersheds
- 3 Source Protection Plans
  - Halton-Hamilton
  - Grand River
  - Niagara Peninsula



# Risk Management Office

- ❑ On December 15, 2015, the City of Hamilton formally appointed the Risk Management Official (RMO) and Risk Management Inspectors (RMIs) and set up the Risk Management Office
  - ❑ **Carmen Vega – RMO**
  - ❑ **Marco Silverio – RMI and RMO (alternate)**
  - ❑ **Martha Kariuki - RMI**
  
- ❑ The Risk Management Office will implement Source Protection Plan policies using a variety of tools



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# Existing Drinking Water Threats in Hamilton

Threat	Number of Activities
Sewage System – Residential Septic Systems	81
Handling and Storage of Fuel	9
Pesticide Application	7
Commercial Fertilizer - Storage	1
Land associated with livestock	5
Agricultural Source Material (ASM) – Application	6
Agricultural Source Material (ASM) – Storage	1
Non-Agricultural Source Material (NASM) - Application	4
Handling and Storage of Dense Non Aqueous Phase Liquids (DNAPL)	1
<b>Total Number of Activities</b>	<b>118</b>
<b>Total Number of Properties</b>	<b>91</b>

# Existing Drinking Water Threats in Hamilton

- ❑ Septic Systems – highest number
- ❑ Total number of activities – **81**
  - ❑ Policy tools: OBC requirements, E&O, Incentives

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Working with Building Division to send out requests for septic system inspections by private installers

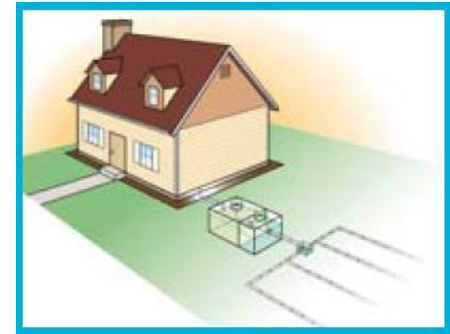
**MARCH-APRIL 2016**

6 month compliance timeframe for inspections

**MAY – NOVEMBER 2016**

**SEPTIC SOCIAL EVENTS – FALL 2016**

Follow-up on the inspections reports  
**DECEMBER – FEBRUARY 2017**



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# Existing Drinking Water Threats in Hamilton

- ❑ Storage & Handling of Fuel Threat
- ❑ Total number of potential occurrences – 9
  - ❑ Policy Tool: E&O

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Notification letter to schedule visits with outreach material  
**APRIL-MAY 2016**

Voluntary visits with E&O  
**MAY – NOVEMBER 2016**

Follow-up on based on response.  
**DECEMBER – FEBRUARY 2017**



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# Existing Drinking Water Threats in Hamilton

- ❑ Pesticide Application & Fertilizer Storage Threat
- ❑ Total number of potential activities – 8
  - ❑ Policy Tool: RMP, E&O, Incentives

Notification letter to schedule site visits

**APRIL-MAY 2016**

Site visit to confirm the threat and begin negotiations of RMPs

**MAY – NOVEMBER 2016**

Follow-up based on response.  
**DECEMBER – FEBRUARY 2017**



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## Existing Drinking Water Threats in Hamilton

- ❑ Land associated with livestock threat
- ❑ Total number of potential activities – 5
  - ❑ Policy Tools: NMA, RMP, Compliance Inspections

Notification letter to schedule site visit

**APRIL-MAY 2016**

Site visit to confirm the threat and initiate negotiation of RMPs

**MAY – NOVEMBER 2016**

Follow-up based on response.  
**DECEMBER – FEBRUARY 2017**





# Existing Drinking Water Threats in Hamilton

- ❑ ASM & NASM – Threat
- ❑ Total number of activities – **11**
  - ❑ Policy Tools: NMA, RMP, Compliance Inspections, E&O, Incentives

Notification letter to schedule site visit

**APRIL-MAY 2016**

Site visit and negotiations of RMPs

**MAY – NOVEMBER 2016**

Follow-up based on response.  
**DECEMBER – FEBRUARY 2017**



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# Existing Drinking Water Threats in Hamilton

❑ Handling and Storage of (DNAPL) Threat

❑ Total number of activities – 1

❑ Policy Tools: RMP, E&O

- Community
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Notification letter to schedule site visit

**APRIL-MAY 2016**

Site visit to confirm threat and negotiate RMP

**MAY – NOVEMBER 2016**

Follow-up based on response.  
**DECEMBER – FEBRUARY 2017**



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## Other Threats

- ❑ Road Salt & Storage of Snow
  - ❑ Policy Tools: E&O

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Policies communicated with the  
Roads Operation group

**DECEMBER 2015**

Update City of Hamilton's Salt  
Management Plan to include  
BMP

**2016**

Work with Roads Operation to  
educate contractors on BMP

**2017**



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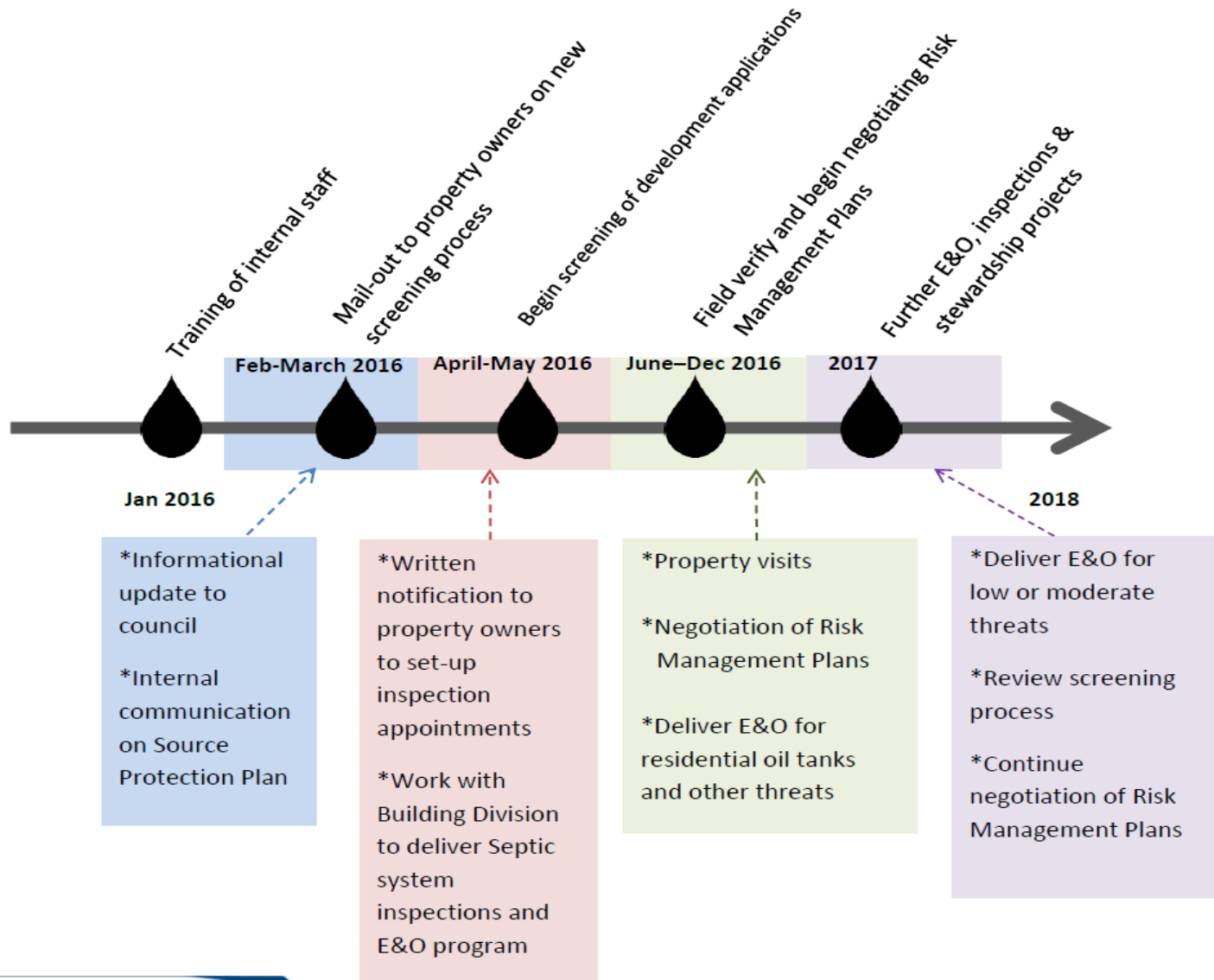
# City of Hamilton Actions in Source Protection



- Community
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# Future Threats and other policies

- ❑ Restricted Land Use – Section 59
  - ❑ Screening of development applications
  - ❑ Training of 56 building & planning staff
  - ❑ Information package to ~ 900 property owners
  - ❑ Begins April 1<sup>st</sup> 2016

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March 21, 2016

Restricted Land Use Notice  
 Risk Management Plan agreed to or established  
 Issued under the *Clean Water Act*, Section 59 (2) (b)

Letter Number: HAM-559-16-001	
Description and Date of Application / Supporting Documents:	
Applicant Name:	
Telephone:	Email address:
Property Address:	Town:
Province:	Postal Code:
Source Protection Plan:	Drinking Water System:
WHPA:	Vulnerability Score:

Property Owner:		
Mailing Address:		
Municipality:	Province:	Town:
Phone:	Alt. Phone:	Postal Code:
		Email:



# Future Threats and other policies



- Community
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## Rural Official Plan Amendment

- Source Protection Plan policies included in the amendment (July 2015)
- Amended plan under appeal at OMB

### Official Plan & Zoning By-law

Home > City Planning > Official Plan & Zoning By-law



## Spill prevention & Emergency response plans

- Woodward Avenue plans updated to include IPZs



## Other Activities



- Community
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- Prepare Annual Reports – 1<sup>st</sup> report submitted (Feb 2016)
- Prepare Council communication
  - New SPC municipal representative
  - Information up-date
- Develop an internal Source Protection database & web-interface
- Conduct Municipal Class Environmental Assessment Studies
  - Two new potential wells in Lynden and Greenville
- On-going participation in Source Protection committees and working groups



# Public Works HAMILTON WATER



## Questions

March 22, 2016

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