



Thames – Sydenham and Region Source Protection Authority Meeting Agenda

Source Protection Authority Upper Thames River

Meeting Date: Tuesday March 22, 2011

Meeting Time: **Following the adjournment of the UTRCA Board of Directors' Meeting**

Meeting Location: UTRCA Administration Boardroom

Agenda

1. Adoption of the Agenda
2. Minutes From the Previous Meeting
October 26, 2010
3. Business Arising from the Previous Minutes
4. Presentation
 - (a) Drinking Water Source Protection Update (Verbal)
5. Business for Approval
 - (a) Striking Committee Report
(C.Tasker)(Report attached)
 - (b) Source Protection Committee Member Appointments
(C.Tasker)(Report attached)
6. Business for Information
7. Other Business
8. Adjournment

Chris Tasker
Source Protection Project Manager



Upper Thames River Source Protection Authority Meeting
UTRCA Administration Boardroom
March 22, 2011

J.Baechler, Chair called the Source Protection Authority meeting to order at 3:10 p.m. in the Boardroom of the UTRCA Administration Office. The following members were in attendance:

Members: J.Baechler B.French
A.Bannister T.Jackson
M.Blackie H.McDermid
J.Boyce C.Mott
R.Chowen J.Northcott
S.Clark G.Way
R.Forbes

Regrets: D.Lazenby A.Ralph

Staff: J.Brick A.Shivas
C.Harrington S.Shivas
T.Hollingsworth C.Tasker
I.Wilcox

Guest: Bob Bedggood, Chair, Source Protection Committee

I.Wilcox noted that periodically the UTRCA Board of Directors will adjourn and reconvene as the Upper Thames River Source Protection Authority. He noted that the SPA's responsibilities are specified under the Clean Water Act rather than the Conservation Authorities Act.

I.Wilcox introduced C.Tasker, Source Protection Project Manager for the Thames-Sydenham and Region Source Protection Region, which includes the Upper Thames River, Lower Thames Valley and St. Clair Region Conservation Authorities. He also introduced Bob Bedggood, Chair of the Source Protection Committee and noted that he is a former member of the UTRCA Board of Directors. He stated that under the Clean Water Act the SPC Chair is required to report to the Source Protection Authorities on a quarterly basis.

1. Adoption of Agenda

R.Chowen moved – H.McDermid seconded:-

“RESOLVED that the agenda be approved as presented.”
CARRIED.

2. Minutes of the Previous Meeting
- October 26, 2010

J.Boyce moved – A.Bannister seconded:-

“RESOLVED that the minutes of the UTR Source Protection Authority meeting dated October 26, 2010 be approved as circulated.”

CARRIED.

3. Business from the Previous Minutes

There was no business to discuss.

4. Presentation

(a) Drinking Water Source Protection Update

B.Bedggood noted that recently the Source Protection Committee filled two vacancies. The Committee currently has the full complement of 21 members as well as all three First Nation representatives. He advised the members that the amended Proposed Assessment Reports for the St. Clair Region and the Lower Thames Valley Source Protection Areas have been submitted to the Minister of the Environment for approval. The amended Proposed Assessment Report for the Upper Thames River Source Protection Area will be submitted in June, 2011. He noted the Reports identify vulnerable areas where sources of municipal drinking water might be at risk of contamination or overuse. He advised the members that the next step will be to develop Source Protection Plans that will contain policies that manage significant threats to municipal supplies of drinking water and ensure that no new significant threats can occur.

C.Taker made a presentation relating to Drinking Water Source Protection. He advised the members that Source Protection was spearheaded as a result of the Walkerton tragedy. He noted that one of the requirements under the Clean Water Act was to form local Source Protection Committees to develop a plan to determine vulnerable areas, and identify threats and develop plans to deal with the threats in the drinking water. He noted that basically the SPAs are Conservation Authorities with a slight modification in a few cases.

He gave a brief overview of the Assessment Reports as noted above. He advised the members if they would like additional information on the Reports the information is available on the website www.sourceprotection.on.ca. He recommended the members view the system summary of the municipal system closest to them. He stated if a member would like to review the Reports in their entirety to contact S.Shivas and a CD will be forwarded to them.

He stated that the Committee’s next steps include submitting the UTR Assessment Report in June, and developing policies for managing significant threats. He outlined the implications on the Municipalities and Conservation Authorities and also highlighted the disclosure services being provided to the landowners and municipalities.

The presentation is attached for further review and information.



J.Baechler departed the meeting at 3:20 p.m. and J.Boyce, Vice Chair conducted the remainder of the meeting.

5. Business for Approval

(a) Striking Committee Report

The report was presented to the members for consideration.

T.Jackson moved – H.McDermid seconded:

“RESOLVED that the UTR Source Protection Authority approve the recommendation as outlined in the attached report.”

CARRIED.

(b) Source Protection Committee Member Appointments

The report was presented to the members for consideration.

A.Bannister moved – C.Mott seconded:-

“RESOLVED that the UTR Source Protection Authority approve the recommendation as outlined in the attached report.”

CARRIED.

6. Business for Information

There was no further business to discuss.

7. Adjournment

The meeting was adjourned at 3:25 p.m. on a motion by J.Northcott.

Ian Wilcox, General Manager

J.Baechler, Chair
UTR Source Protection Authority
J.Boyce, Vice Chair
UTR Source Protection Authority

Report to Source Protection Authorities in the Thames – Sydenham and Region

Agenda # 2011.03.5a

Cc SP Management Committee

Date March 8, 2011

From Chris Tasker, Project Manager

Re: Striking Committee

Recommendation

It is recommended that annually the Source Protection Authorities in the Thames-Sydenham and Region confirm their representatives on the striking committee.

Background

- The striking committee was formed by the Conservation Authorities, acting as the Source Protection Authorities (SPAs), to carry out their shared responsibilities related to the formation of the Source Protection Committee (SPC).
- The striking committee has 6 members, 2 from each of the 3 SPAs in the region.
- The striking committee:
 - provided recommendations to the MOE on the appointment of the chair of the SPC,
 - appointed members of the SPC,
 - and accepted the policies of the committee.
- The members efforts and Albert Bannister’s leadership in chairing the striking committee is greatly appreciated.
- A joint committee of the 3 SPAs in the region remains an effective and efficient way of collaborating to carry out the shared responsibilities of the SPAs
- In January 2010 Albert Bannister and Murray Blackie were reconfirmed as the UTRSPA members of the striking committee for the purpose of reappointments.
- SPC members willing to continue in their role have had their appointments extended to 2012 to align with the anticipated approval of the Source Protection Plans for the region as required by the Clean Water Act.
- Following approval of the Source Protection Plans the striking committee would be required to reconsider one third of the appointments of the SPC each year.
- Two vacancies were recently filled by the striking committee which is the subject of another report to the authority.

Discussion

- While it is possible to reform the striking committee as needed, it would require that SPA meetings be held by all three authorities to select members to sit on the striking committee.
- The Conservation Authorities in the region generally hold their SPA meetings immediately before or following their board meetings.



- The CAs in the region generally meet, monthly however there are months which they do not hold meetings. As such forming the striking committee when required may take 2 to 3 months.
- In the event of future vacancies it is important that they be filled as quickly as possible given that filling vacancies is a lengthy process, it is important that the process not be delayed additionally while a striking committee is formed.
- SPC vacancies do not affect the required quorum, but it does affect the committee's ability to achieve the 2/3 quorum required to meet as a committee.
- As such it is recommended the SPAs reaffirm their membership on the striking committee annually.
- Each SPA has used different methods to provide their striking committee members to make the striking committee (responsibility of the chair and vice-chair or appointing specific members).
- Either way, re-affirming membership annually is recommended so that the SPA remain connected with the striking committee and their role in forming and continued support of the Source Protection Committee and that new members of the striking committee understand their responsibilities.
- Annual reaffirmation will also ensure that the striking committee is ready in case future vacancies occur.

Report to Source Protection Authorities in the
Thames – Sydenham and Region

Agenda # 2011.03.5a

Cc SP Management Committee

Date March 8, 2011

From Chris Tasker, Project Manager

Re: Appointment of new members

Recommendation

It is recommended that the Source Protection Authorities in the Thames-Sydenham and Region confirm the appointments of the three new members to the Source Protection Committee and the extension of the appointments for the previous members.

Background

- The striking committee was formed by the Conservation Authorities, acting as the Source Protection Authorities (SPAs), to carry out their shared responsibilities related to the formation of the Source Protection Committee (SPC).
- There were two vacancies in the Source Protection Committee which needed to be filled.
- As required by the Clean Water Act, the SPC is made up of 1/3 members representing municipalities, 1/3 representing economic sectors of the region and 1/3 representing interests other than the other 2/3.
- Both vacancies were created in the “other” third of the committee.
- While geographic balance between the SPAs is not legislated, the striking committee endeavoured to balance the SPC from the three SPAs.
- Both vacancies were created by people who lived in the Upper Thames River SPA.
- The original appointments to the SPC were expiring and required extension to align with the anticipated approval of the Source Protection Plans to be consistent with the Clean Water Act.

Discussion

- Advertisements were placed in local newspapers across the region
- The striking committee selected candidates to interview
- John Trudgen was appointed. John has considerable municipal administrative experience as well as experience with a number of water systems across Ontario. John is also quite familiar with the Planning and Drainage Acts.
- The advertisement was reposted.
- George Marr applied, was interviewed and appointed. George brings to the committee his experience in risk from an insurance perspective as well as active involvement with a number of environmental, recreation and civic organizations including the UTRCA

- A letter from the London District Chief's Council was received which appointed Darlene Whitecalf. Darlene is a band councilor with the Chippewas of the Thames First Nation. In January 2010 the SPA acknowledged the appointment of 2 of the 3 possible First Nations members of the SPC.
- SPC members willing to continue in their role have had their appointments extended to the end of 2012 to align with the anticipated approval of the Source Protection Plans for the region as required by the Clean Water Act.



Drinking Water Source Protection

Update to UTRSPA
March 22, 2011

Outline

- What is Drinking Water Source Protection?
- Where are we in the process?
- What is an Assessment Report?
- How does this affect municipalities?
- How does this affect CAs?
- What do we do in the interim – UTRCA Disclosure Service?
- What are the next steps?
- Questions and Discussion

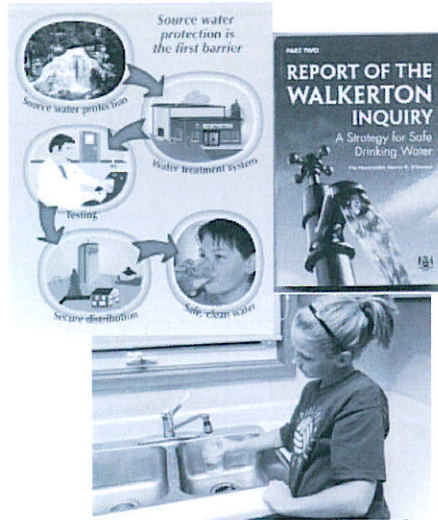


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What is Source Protection?

- Justice O'Connor lead inquiry into Walkerton tragedy
- Recommended a multi-barrier approach to protecting drinking water
- Safe Drinking Water Act and Clean Water Act address O'Connor's recommendations
- The goal of the Clean Water Act (2006) is to protect existing and future **sources of municipal drinking water** (surface water and groundwater) from contamination and overuse
- Requires source protection committees to develop science-based assessment reports and source protection plans at the local level



DRINKING WATER SOURCE PROTECTION



The Clean Water Act requires:

- ✓ Source Protection Authorities (SPA=CA)
- ✓ Source Protection Committees (SPC)
- ✓ Terms of Reference
- Assessment Report (AR)
- Source Protection Plan (SPP)
- Implementation
- Monitoring and Reporting
- Updates and Improvements



SPC representation

Chair	1
Municipal	7
Sectors	
- Agriculture	3
- Industrial/ Commercial	2
- Oil/Gas, Aggregate/ Quarry	2
Other (landowners, environment, recreation, etc.)	7
First Nations	3
Liaisons (Health Unit, SPA, Province)	3

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What is in the Assessment Report?

Defines Vulnerable Areas

- Areas where activities could adversely affect drinking water sources
 - Wellhead Protection Areas (WHPA)
 - Significant Groundwater Recharge Areas (SGRA)
 - Highly Vulnerable Aquifers (HVA)
 - Intake Protection Zones (IPZ)

Assesses Drinking Water Issues

- A parameter or pathogen that is a persistent problem or is trending toward being a persistent problem in the drinking water source
 - In the untreated water
 - Affects the quality of the water for the use as Drinking Water

Identifies Drinking Water Threats and Assesses the Risk

- "an activity or condition that adversely affects or has the potential to adversely affect the quality or quantity of any water that is or may be used as a source of drinking water..."(CWA)



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Sample WHPAs

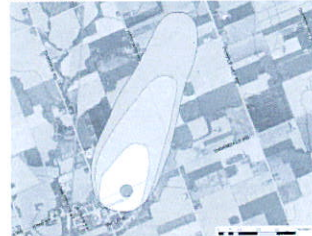
Dorchester



Birr



Thorndale



Sebringville



- Vulnerability = 2
- Vulnerability = 4
- Vulnerability = 6
- Vulnerability = 8
- Vulnerability = 10

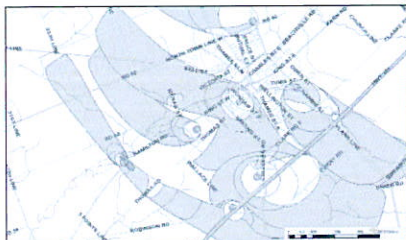
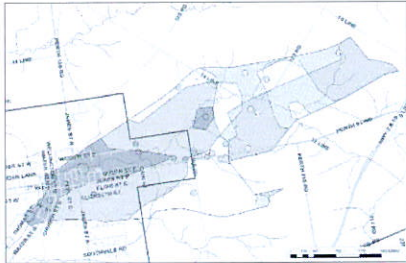
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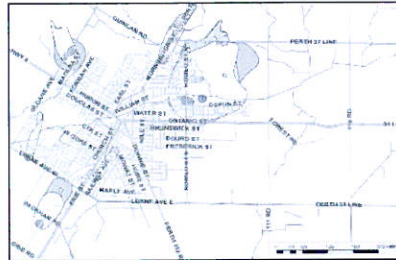


Sample WHPAs

St Marys



Stratford



- Vulnerability = 2
- Vulnerability = 4
- Vulnerability = 6
- Vulnerability = 8
- Vulnerability = 10

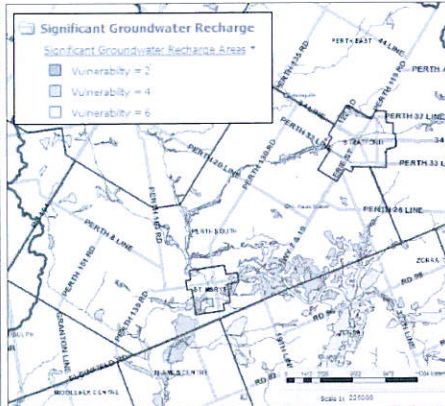
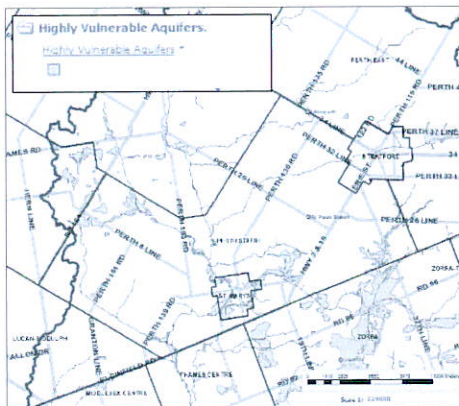
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HVA and SGRA



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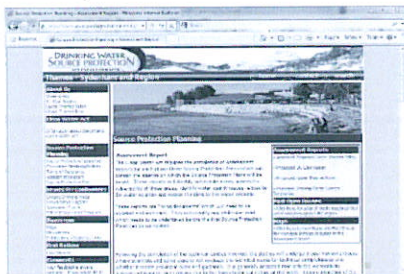
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Where can I find more about Assessment Report?

www.sourcewaterprotection.on.ca

- Assessment report page in menu on left
- Links on right side
- Or request a CD
- System Summaries ←
- Section Summaries
- Maps
- Reports



UPPER THAMES RIVER ASSESSMENT REPORT Municipal Drinking Water System Summary - Stratford Water Supply System

Assessment reports on-line and complete information on the technical aspects that have been completed on existing municipal drinking water systems in the Thames System and Region.

The Municipal Drinking Water System Summary provides an overview of information in the Upper Thames River Assessment Report about the system. For more detailed information and mapping please refer to the Upper Thames River Assessment Report at www.sourcewaterprotection.on.ca.

The information presented in the Assessment Report, including this system summary, will be used to develop Source Protection Plans as required by the Clean Water Act (CWA). Source protection is the first barrier that helps provide safe drinking water. Protection and assessment practices for sources of the drinking water supply (i.e., ground water) include but are not limited to: protection of drinking water, including treatment, delivery and distribution, are governed by the Safe Drinking Water Act, 2002.

Stratford Water Supply System Overview

System	Stratford Water Supply System		
Operating Authority	City of Stratford		
Classification of System	Drinking Water System - I (Large municipal residential)		
Pumping Station	Maximum Annual		
	Average Annual		
Dumping Station	Maximum Monthly		
	Average Monthly		
Well 1	367,787	280,073	23,339
Well 2	240,674	151,680	14,217
Well 3	249,125	186,700	15,658
Well 4	117,293	81,857	7,375
Well 6	1,296,263	1,000,007	90,283
Well 7	168,575	118,826	17,026
Overhead	83,630	68,221	6,730
Other	114,300	89,674	8,930
Lagoon	298,108	176,187	16,882
Abandonment	416,440	326,441	27,100
UT total	3,048,500	2,241,316	181,197
Source	Groundwater		
Location	City of Stratford		
Description of Wells	11 pumping wells Water is drawn from various aquifers Well depths range from 41 to 363.4 metres Below ground surface		
Approximate Population Served	30440		
Area Served	City of Stratford		

Wellhead Protection Areas

Wells are used to extract drinking water from aquifers in the general A Wellhead Protection Area, or WHPA, is an area delineated around a municipal wellhead through which contaminants are reasonably likely to reach the well or reach the well when a WHPA, certain activities and construction practices can pose a threat to the municipal drinking water supply.

Computer models and other tools are used to establish a picture of the groundwater conditions around a well in the Upper Thames River Source Protection Area (SPA). Municipal groundwater models have been used to delineate WHPAs around the municipal wells (Figure 1). These models calculate the time it takes for water to travel through the aquifer to the well.

Each WHPA is composed of three areas based on the time of travel, and the area that is a 1000 radius around the well.

WHPA-A - 100 metre radius around the well
WHPA-B - 2 year time of travel to the well, including the WHPA-A
WHPA-C - 5 to 25 year time of travel to the well

The other areas (WHPA-D and WHPA-E) can be delineated for groundwater wells that are under the direct influence of surface water (LWD). This work is part of the completed in the Thames System and Region and would be part of an attached Assessment Report. The Stratford well supply system is not GLCC.

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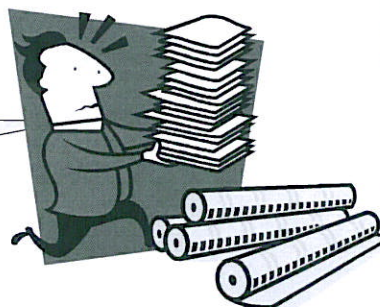
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What are the next Steps?

- Amendments to the ARs
 - GUDI systems (UTRSPA only)
 - Sewer Threats (Perth only)
 - Livestock Confinement and Pasture Threats
 - IPZ-3 (SCR, LTV SPA only)
 - SGRA refinements (SCR, LTV SPA only)
- Develop policies related to drinking water threats
 - Focus on significant threats



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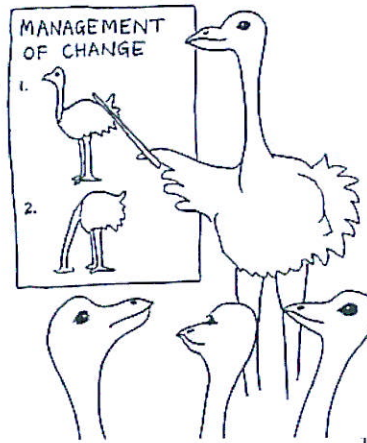
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How Does This Affect Municipalities?

- The Assessment Reports are now complete.
- Mapping of this information is available.
- May have implications for other land use management and development decisions.
- Until Source Protection Plans are approved, the specific implications for certain uses and activities within vulnerable areas are not known.

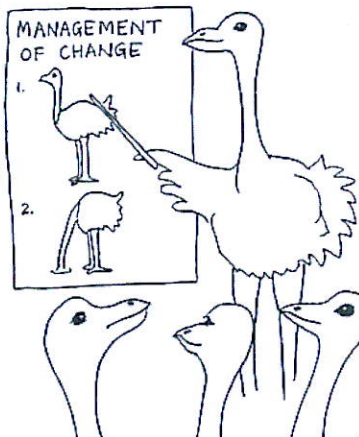


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How Does This Affect CAs?

- The Assessment Reports are now complete.
- Mapping of this information is available.
- May have implications for other land use management and development decisions.
- Until Source Protection Plans are approved, the specific implications for certain uses and activities within vulnerable areas are not known.
- Need to be aware of this in decisions
- Need to make proponents aware so that they can make informed decisions



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What is being disclosed?

We are advising when the subject property has been identified within an area considered vulnerable.

- These areas include:
 - Wellhead Protection Areas (WHPA)
 - Highly Vulnerable Aquifers (HVA)
 - Significant Groundwater Recharge Areas (SGRA)
 - Intake Protection Zones (IPZ)
- We are advising that the Source Protection Plan is underway and that we cannot speculate what the Plan may dictate for these areas.
- We are providing this information to the municipality and proponent to consider in their decision making.

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UPPER THAMES RIVER
CONSERVATION AUTHORITY

Disclosure Services

- The Thames-Sydenham Source Protection Region Planning Staff (UTRCA, LTVCA and SCRCA) have started to disclose the information contained in the Assessment Reports through our environmental planning, permitting and inquiry services.
- October 2009 UTRCA board resolution to disclose
 - Asked to track incremental work
 - Greater than anticipated
 - Will report to UTRCA Board

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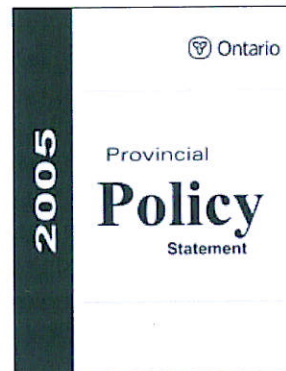
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Provincial Policy Statement (PPS, 2005)

- States the following:
- In Section 2.2.1 d) that:
 - "implementing necessary restrictions on development and site alteration to:*
 - 1. protect all municipal drinking water supplies and designated vulnerable areas; and*
 - 2. protect, improve or restore vulnerable surface and ground water features, and their hydrological functions"*



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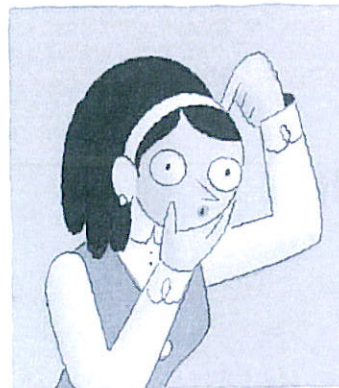
Questions about Assessment Report Mapping

Questions will arise from:

- Inquiries
 - Lawyer
 - Real Estate
 - Public
- Applications under the Planning Act
- Section 28 permit applications
- Official Plan and Bylaw updates
- Environmental Assessment review
- Storm Water Management review
- Aggregates Act and Drainage Act review

They will ask - WHAT DOES THIS MEAN?

- At this stage we are providing the information to assist decision makers.



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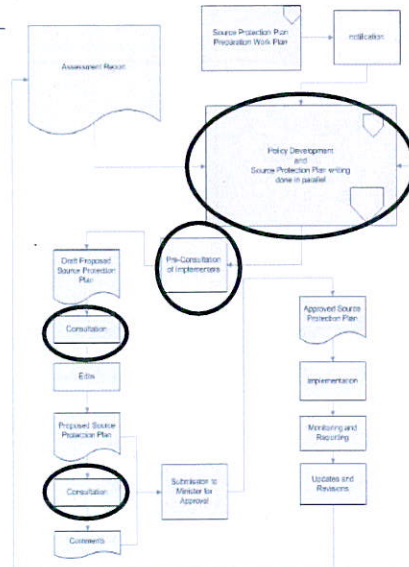
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CONSERVATION AUTHORITY

What are the next steps?

- Policy development
 - Threats Policy Discussion Papers
 - SP Municipal Policy Advisory Committee
 - Working Groups
 - Forums
- Pre-consultation
 - Implementers
- Comment on draft proposed SPP
- Comment on proposed SPP
 - Cannot be acted upon by SPC
 - Included with submission to Minister



DRINKING WATER SOURCE PROTECTION



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Questions and Discussion...



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