

STAFF REPORT

Date: June 29th, 2011
To: Source Protection Committee
From: Jennifer Stephens, Project Manager
RE: Source Protection Planning Update

Policy Development Update and Schedule

Following the July 21st SPC meeting, the TCC SPC will have reviewed *draft* policies for 16 of the 19 prescribed water quality threats under the *Clean Water Act* (2006)(Attachment 1). The remaining draft policies, together with the proposed *draft* policies for the two local threats will be reviewed at the August SPC meeting. Following the July SPC meeting, a concerted effort will be placed on reviewing the *draft* policies prepared by other source protection committees, in particular, those adjacent to the TCC Source Protection Region for similarities and differences in content.

Preliminary Enumeration of Risk Management Plans for TCC SPR

A preliminary assessment of the number of risk management plans by Source Protection Area and municipality has been completed for the TCC Source Protection Region (Attachment 2). Based on the current Assessment Report database, the number of risk management plans has been estimated as **339**. The Source Protection Committee has selected the Risk Management Plan (Section 58) as the tool of choice to manage the following existing drinking water threats:

- The application of agricultural source materials
- The storage of agricultural source materials
- The application of non-agricultural source materials
- The application of pesticide to land
- The storage and handling of pesticide
- The application of commercial fertilizer
- The storage of and handling of fertilizer
- The handling and storage of dense non-aqueous phase liquid
- The handling and storage of organic solvent
- The storage of snow

- The application of road salt
- The storage and handling of road salt

Sixteen of the nineteen municipalities in the TCC SPR with significant drinking water threats will require risk management plans to manage existing threats based on the *draft* policies the SPC has selected to date.

Pre- consultation and Extension to Affected Parties

At the most recent TCC CA staff meeting on June 13th, staff from the five CAs discussed a proposed approach to pre-consultation with municipalities.

Major decisions that came out of this meeting included the following points:

- Email would be sent to municipalities in late July to advise that pre-consultation notices will be issued in mid to late August.
- Pre-consultation notices will be sent to the Clerk, as well as staff representing municipality on the Municipal Working Group (MWG).
- Feedback from MWG representatives and those who attended June 8th Forum was that municipalities wanted 2 months to review *draft* policies.
- Written comments from municipalities will be received until October 31st.

Based on the feedback from the June Municipal Forum, a preliminary list of the materials to be circulated to municipalities with the pre-consultation notices include the following:

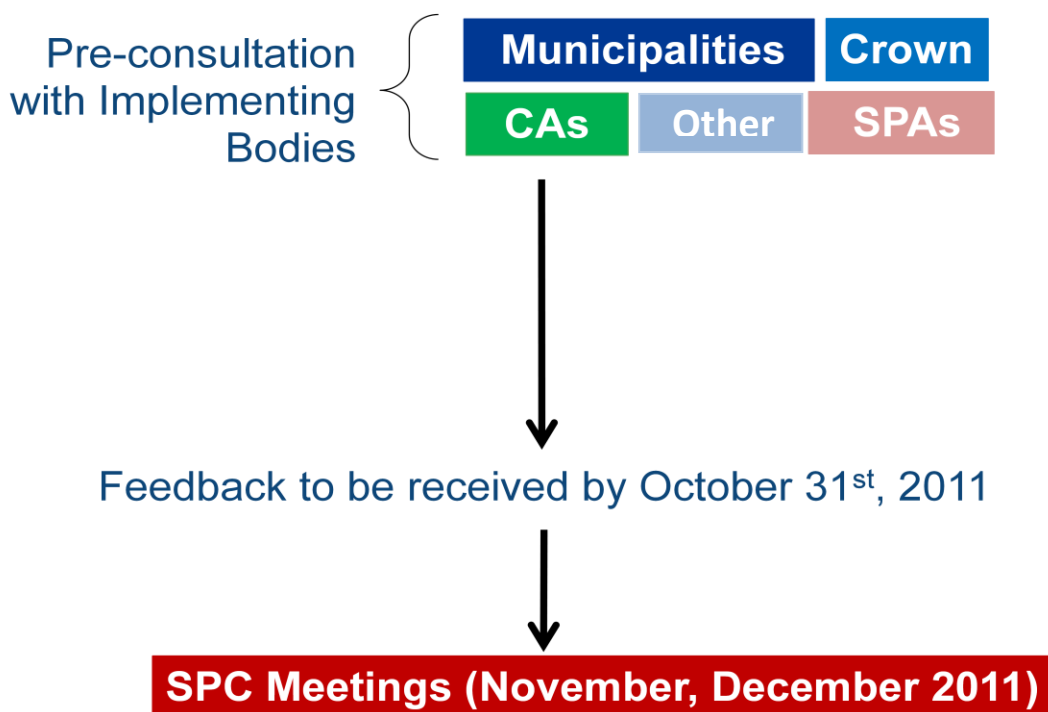
- Covering Checklist
- Notification Letter
- Hot button Issues (i.e. RMPs, \$\$) sheet
- Summary of the Groups of Threats
- Summary of *Clean Water Act* Tools
- Explanation of the Content of a Policy, Mandatory vs. optional content of the plan
- Applicability Table (municipalities versus policies)
- Policies – Broken into six groups
 - Part 1 – General Policies
 - Part 2 – Agriculture and Landscaping Threat Policies (incl. pesticides, fertilizers, ASM, grazing/pasturing)
 - Part 3 – Chemical Threat Policies (incl. DNAPLs, organic solvents, fuel, glycol from aircraft deicing, snow storage)
 - Part 4 – Transportation Related Threat Policies (incl. transportation corridors, road salt)
 - Part 5 – Waste Related Threat Policies (incl. waste disposal, sewage, NASMs)
 - Part 6 – Local Threat Policies (gasoline spill from pipeline, goose congregation)
- Mapping
 - Several municipal working group members have alluded to the fact that visuals would be most helpful. For each system we are expecting to provide the mapping which shows in

which areas existing threats are located and where future potential threats can occur. One, two, or three maps will accompany these policies.

- IPZs – only one map – showing where pathogen and chemical circumstances would be significant
- WHPAs – two maps – areas where pathogen and chemical circumstances are significant are the same, and where DNAPLs are significant (WHPA C)
- WHPAs – three maps – areas where pathogen and chemical circumstances are significant are differ, and where DNAPLs are significant (WHPA C)

The pre-consultation phase for the TCC SPC is expected to go between August and October 31, 2011. *Draft* policies will be shared with all five CAs concurrent with this pre-consultation. Comments obtained from implementing bodies would be due by October 31st. The same timeline would exist for comments from CAs to be received. Feedback from the pre-consultation period, as well as through dialogue with CAs, would be brought to the SPC for discussion in November and December, 2011.

Framework and timeline for Feedback from Implementing Bodies and CAs



Concurrent with the pre-consultation notices being issued to implementing bodies, staff would post the *draft* policies on the TCC SPC webpage for feedback. Further, it is recommended that a third Municipal Forum be held in September 2011. This timing would be halfway through the pre-consultation period and would allow the SPC to engage municipalities in advance of written comments being submitted.

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STAFF RECOMMENDATION

THAT the Source Protection Committee accepts the following report for information and,

THAT the date for a third Municipal Forum be scheduled for September 2011.



ATTACHMENT 1

Table 1: Review of Draft Policies by TCC Source Protection Committee

Threat	May	June	July	August
The establishment, operation or maintenance of a waste disposal site				
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.				
The application of agricultural source material to land.				
The storage of agricultural source material.				
The management of agricultural source material.				
The application of non-agricultural source material to land.				
The handling and storage of non-agricultural source material.				
The application of commercial fertilizer to land.				
The handling and storage of commercial fertilizer.				
The application of pesticide to land.				
The handling and storage of pesticide.				
The application of road salt.				
The handling and storage of road salt.				
The storage of snow.				
The handling and storage of fuel.				
The handling and storage of a dense non-aqueous phase liquid.				
The handling and storage of an organic solvent.				

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The management of runoff - Chemicals used in the de-icing of aircraft.				
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.				
Local Threat – Gasoline spill from pipeline				
Local Threat – Goose congregation				

ATTACHMENT 2

Table 2: Preliminary Assessment of the Number of Risk Management Plans – Surface Water Systems

Kawartha – Haliburton SPA		Otonabee – Peterborough SPA		Crowe Valley SPA	Lower Trent SPA	Ganaraska Region SPA
Bobcaygeon (2)		Hastings (11)		Marmora (1)	Bayside	Cobourg
Fenelon Falls		Lakefield (20)			Campbellford (30)	Port Hope
Kinmount (24)		Peterborough (22)			Frankford (17)	Newcastle
Lindsay (11)					Trenton (12)	
Norland					Warkworth (28)	
Southview Estates (1)						
TOTAL:	38	53		1	87	0

Table 3: Preliminary Assessment of the Number of Risk Management Plans – Groundwater Systems

Kawartha – Haliburton SPA	Otonabee – Peterborough SPA	Crowe Valley SPA	Lower Trent SPA	Ganaraska Region SPA
Blackstock (58)	Alpine Village (3)	Cardiff	Brighton (2)	Camborne
Canadiana Shores	Birch Point Estates	Dyno Estates	Colborne (1)	Creighton Heights (1)
Greenbank (5)	Buckhorn Lakes Estates	Havelock (11)	Grafton	Orono (1)
Janetville (1)	Crystal Springs (3)		Stirling (40)	
King’s Bay (4)	Fraserville (1)			
Lutterworth Pines	Keene Heights			
Manorview (1)	Millbrook			
Mariposa Estates (10)	Norwood			
Minden (1)	Pinewood (1)			
Pleasant Point				
Port Perry				
Sonya (8)				
Victoria Glen (3)				
Victoria Place (2)				
Woods of Manilla (1)				
Woodfield (2)				
TOTAL: 96	8	11	43	2

Table 4: Number of RMPs by Municipality

Municipality	Total RMPs	Agriculture	NASM	Road Salt/Snow	DNAPLs/Solvents
Brighton					
- Brighton	2	2	0	0	0
Cavan – Millbrook – North Monaghan					
- Fraserville	1	1	0	0	0
City of Peterborough					
- City of Peterborough	22	22	0	0	0
Cramahe					
- Colborne	1	1	0	0	0
Durham	64				
- Blackstock	58	57	0	1	0
- Greenbank	5	5	0	0	0
- Orono	1	1	0	0	0
Galway – Cavendish – Harvey					
- Alpine Village	3	3	0	0	0
Hamilton					
- Creighton Heights	1	0	0	0	1
Havelock – Belmont – Methuen					
- Havelock	11	2	0	0	9

Table 4: Number of RMPs by Municipality *cont'd*

Municipality	Total RMPs	Agriculture	NASM	Road Salt/Snow	DNAPLs/Solvents
Kawartha Lakes	70				
- Bobcaygeon	2	2	0	0	0
- Janetville	1	1	0	0	0
- King's Bay	4	4	0	0	0
- Kinmount	24	0	0	24	0
- Lindsay	11	9	0	2	0
- Manorview	1	1	0	0	0
- Mariposa	10	10	0	0	0
- Pinewood	1	1	0	0	0
- Sonya	8	8	0	0	0
- Southview Estates	1	1	0	0	0
- Victoria Glen	3	3	0	0	0
- Victoria Place	2	2	0	0	0
- Woods of Manilla	1	1	0	0	0
- Woodfield	2	1	0	0	1
Marmora and Lake					
- Marmora	1	1	0	0	0
Minden Hills					
- Minden	1	0	0	0	1

Table 4: Number of RMPs by Municipality *cont'd*

Municipality	Total RMPs	Agriculture	NASM	Road Salt/Snow	DNAPLs/Solvents
Otonabee – South Monaghan					
- Crystal Springs	3	3	0	0	0
Quinte West	29				
- Frankford	17	17	0	0	0
- Trenton	12	8	0	4	0
Smith – Ennismore – Lakefield					
- Lakefield	20	18	0	2	0
Stirling – Rawdon					
- Stirling	40	40	0	0	0
Trent Hills	69				
- Campbellford	30	23	0	7	0
- Hastings	11	11	0	0	0
- Warkworth	28	28	0	0	0

Table 5: Number of RMPs by Source Protection Area

Municipality	Total RMPs	Agriculture	NASM	Road Salt/Snow	DNAPLs/Solvents
Lower Trent	130				
- Brighton	2	2	0	0	0
- Campbellford	30	23	0	7	0
- Colborne	1	1	0	0	0
- Frankford	17	17	0	0	0
- Stirling	40	40	0	0	0
- Trenton	12	8	0	4	0
- Warkworth	28	28	0	0	0
Otonabee - Peterborough	61				
- Alpine Village	3	3	0	0	0
- Fraserville	1	1	0	0	0
- City of Peterborough	22	22	0	0	0
- Crystal Springs	3	3	0	0	0
- Hastings	11	11	0	0	0
- Lakefield	20	18	0	2	0
- Pinewood	1	1	0	0	0
Ganaraska Region	2				
- Creighton Heights	1	0	0	0	1
- Orono	1	1	0	0	0
Crowe Valley	12				
- Havelock	11	2	0	0	9
- Marmora	1	1	0	0	0

Table 5: Number of RMPs by Source Protection Area *cont'd*

Municipality	Total RMPs	Agriculture	NASM	Road Salt/Snow	DNAPLs/Solvents
Kawartha - Haliburton	134				
- Blackstock	58	57	1	0	0
- Bobcaygeon	2	2	0	0	0
- Greenbank	5	5	0	0	0
- Janetville	1	1	0	0	0
- King's Bay	4	4	0	0	0
- Kinmount	24	0	0	24	0
- Lindsay	11	9	0	2	0
- Manorview	1	1	0	0	0
- Mariposa	10	10	0	0	0
- Minden	1	0	0	0	1
- Sonya	8	8	0	0	0
- Southview Estates	1	1	0	0	0
- Victoria Glen	3	3	0	0	0
- Victoria Place	2	2	0	0	0
- Woods of Manilla	1	1	0	0	0
- Woodfield	2	1	0	0	1