

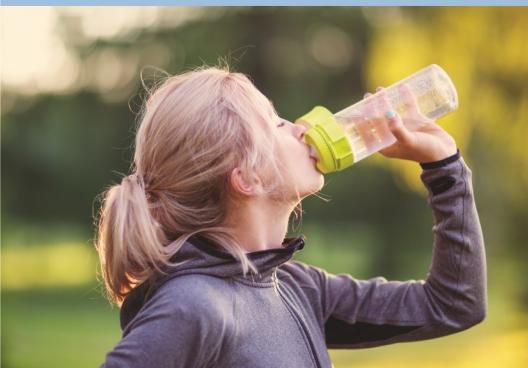
Source Water Protection

South Georgian Bay Lake Simcoe Region

Status of Drinking Water Issues

Bill Thompson, Lake Simcoe Region Conservation Authority

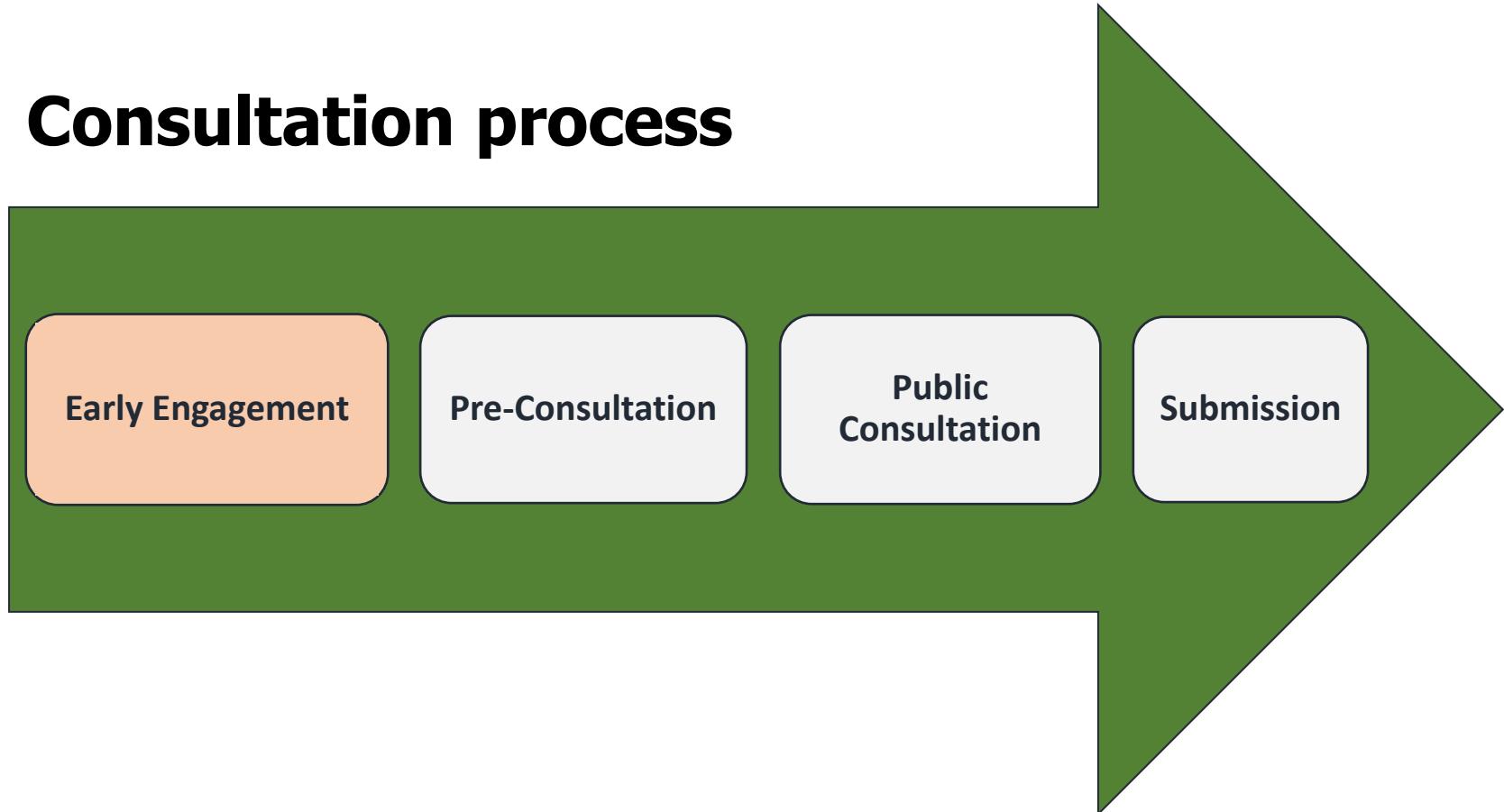
Melissa Carruthers, Severn Sound Environmental Agency



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is **life.**
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Plan review and amendments

Consultation process



MECP feedback was of 5 types

1. Typographic
2. Mapping
3. Threats
enumeration
- 4. Status of Issues**
5. Policy conformity



What is an Issue

A drinking water 'Issue' should be declared, if the Committee becomes aware of:

- A contaminant at a level that exceeds the Ontario Drinking Water Quality Standards; or,
- A contaminant whose concentration is increasing, such that it is expected to exceed the Standard

What to do when an Issue is declared

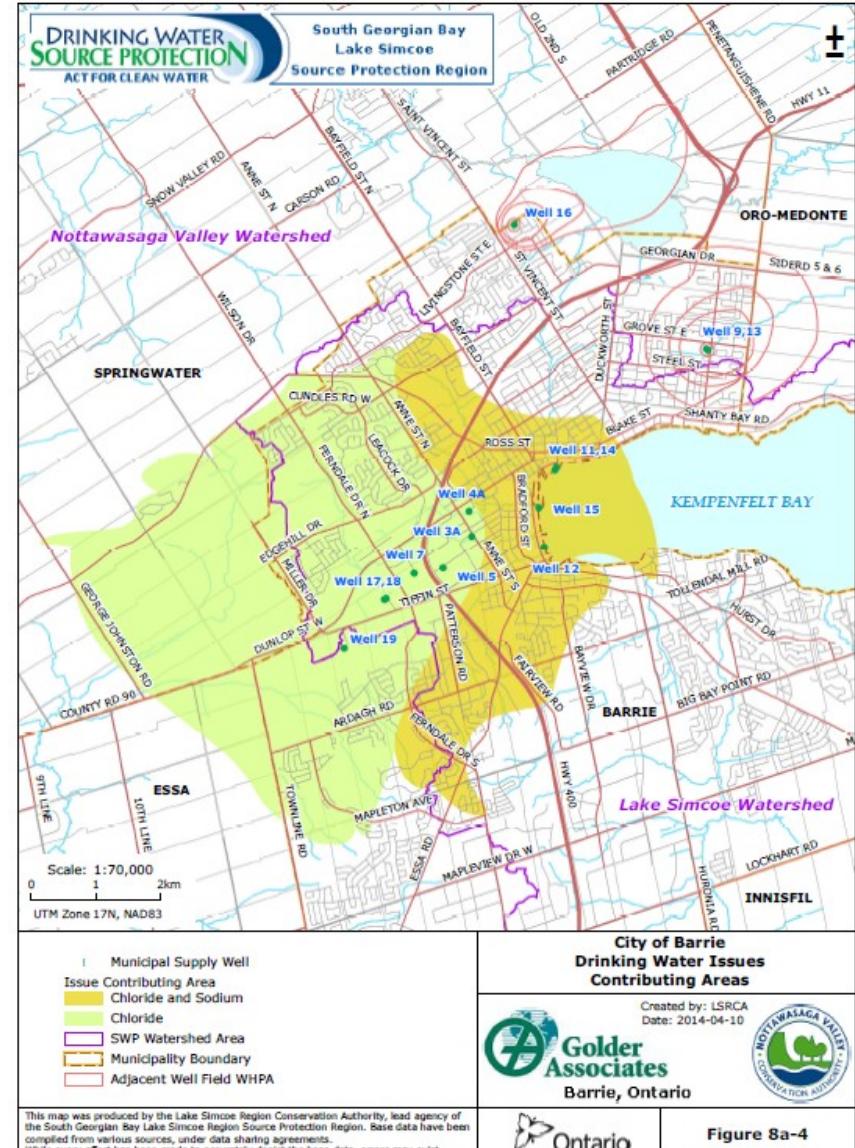
1. Map 'Issue contributing area'
 - The area in which activities are believed to be contributing to the contamination
2. Implement policies
 - All threat activities which may contribute to further impairment are “promoted” to Significant
 - ICA-specific policies may be developed

Water quality issues in our Source Protection Region

- Barrie: sodium and chloride
- Cannington (Durham Region): Trichloroethylene
- Orillia: Trichloroethylene and Perchloroethylene
- Penetanguishene: Trichloroethylene
- Coldwater (Severn): Trichloroethylene
- Georgian Sands / Lafontaine (Tiny): nitrate

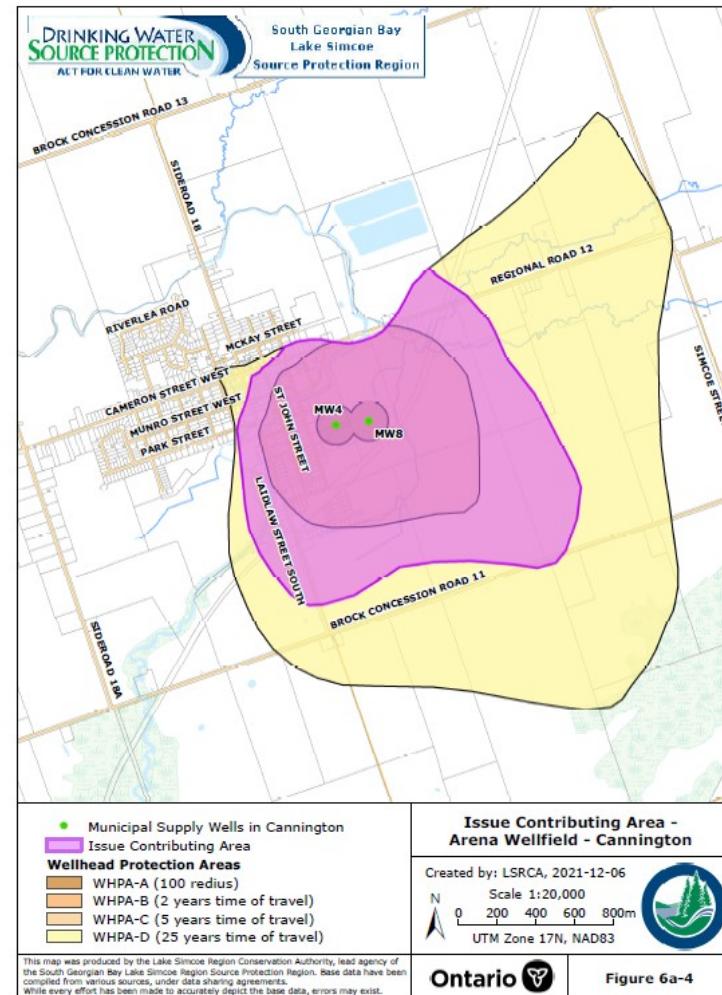
Barrie

- Sodium (wells 11, 12, 14)
- Chloride (wells 3A, 11, 12, 14)
- Trend continues to increase
- Threats in the WHPA-A(wellhead protection area) have been addressed
- City has requested extension of policy.
Endorsed by Committee and included in draft amendment

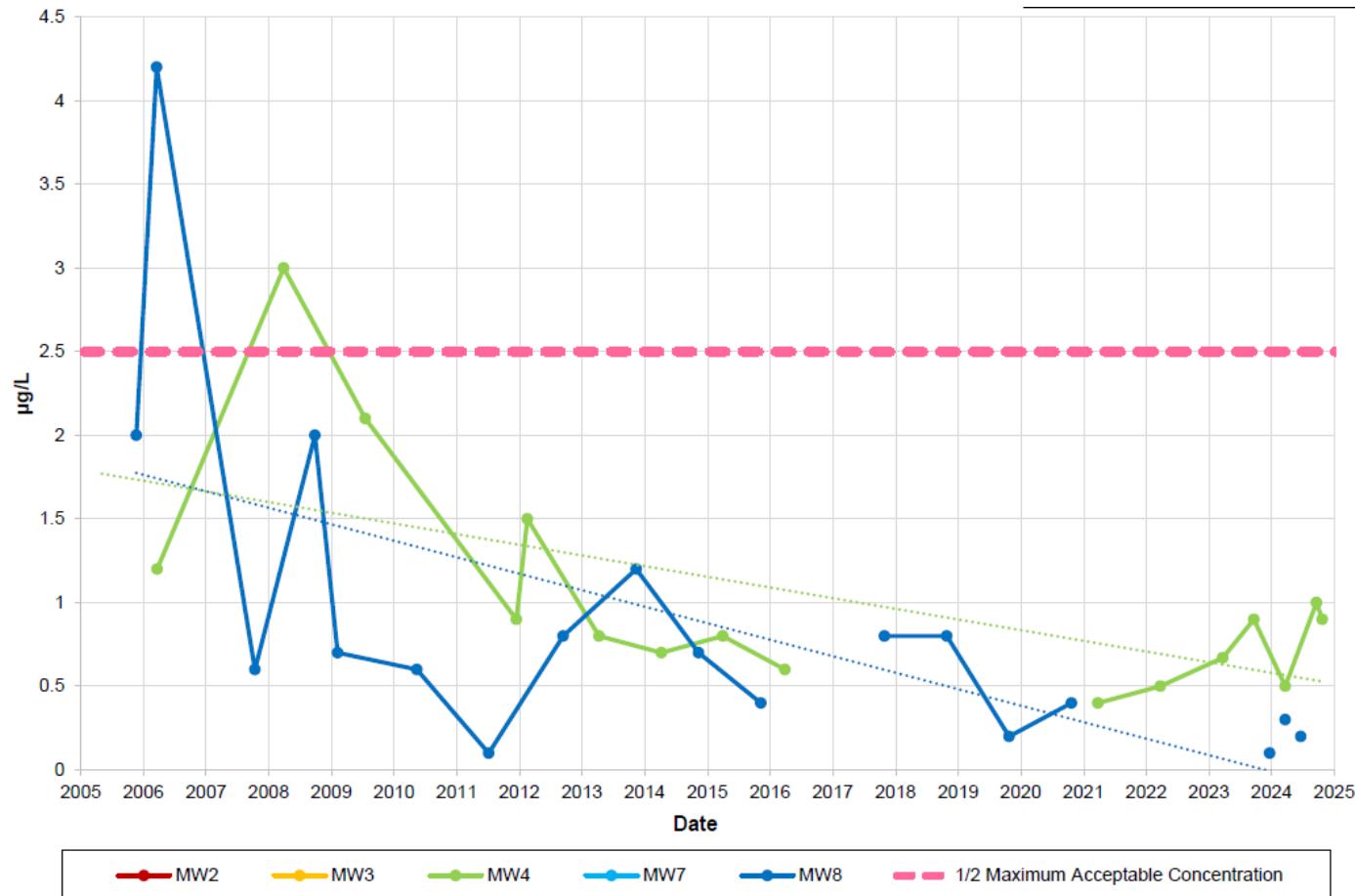


Cannington (Durham Region)

- Trichloroethylene (TCE) (wells MW4, MW8)
- Concentrations have been declining



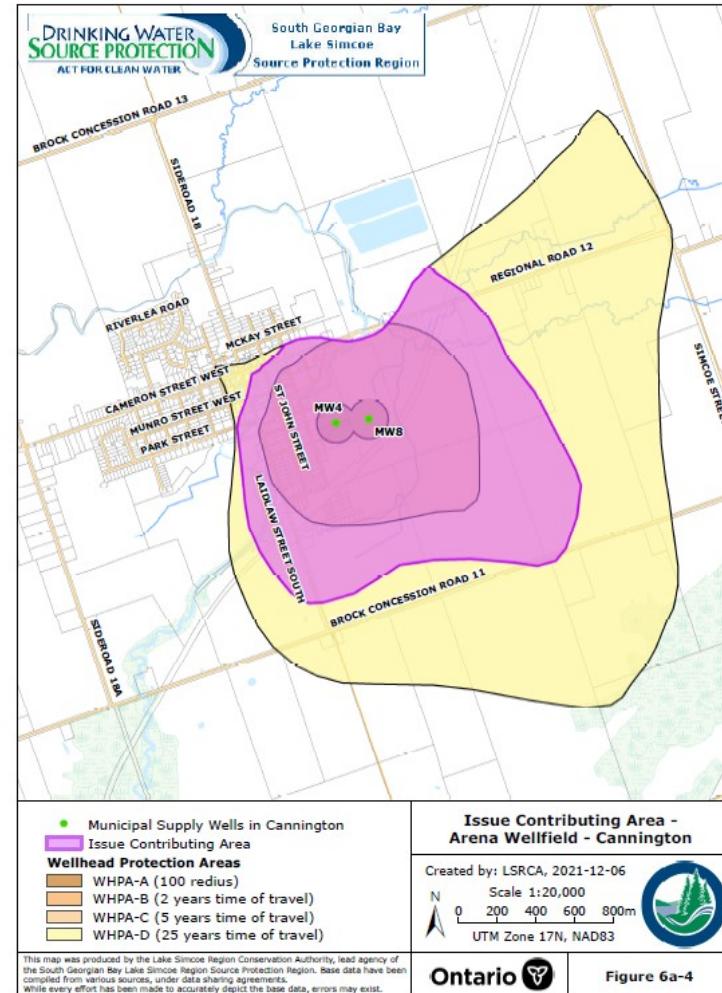
Cannington (Durham Region)



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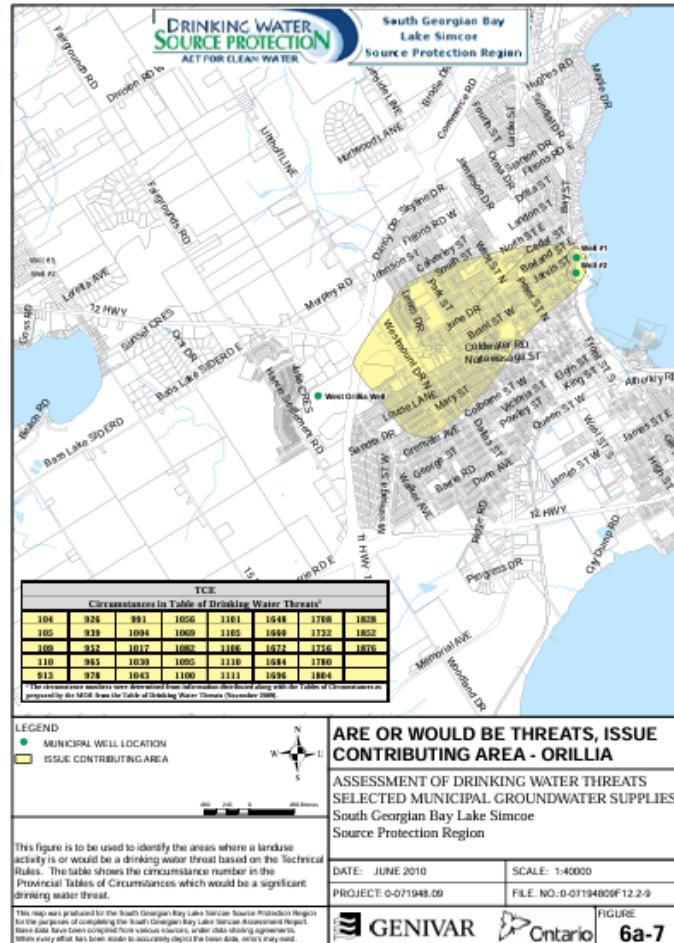
Cannington (Durham Region)

- Trichloroethylene (wells MW4, MW8)
- Concentrations have been declining
- But ... pumping rate has decreased as well
- Expect concentrations may increase when pumping increases again
- Emerging Issue with nitrate too

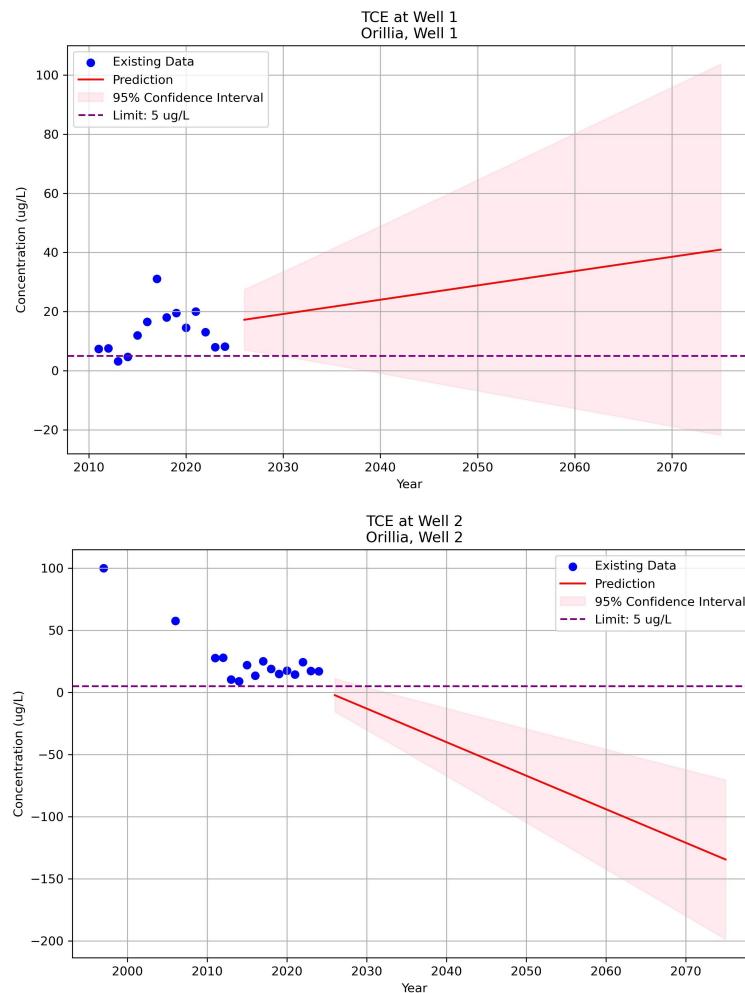
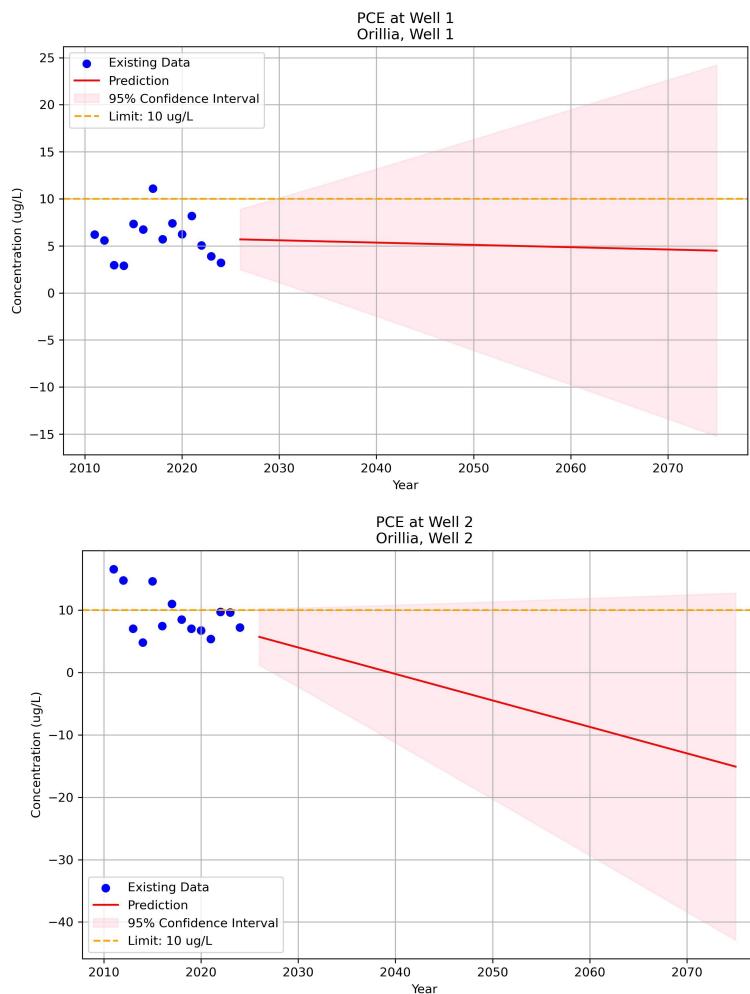


Orillia

- Trichloroethylene and perchloroethylene identified as issues in Wells 1 and 2
- Concentrations below Drinking Water Standard



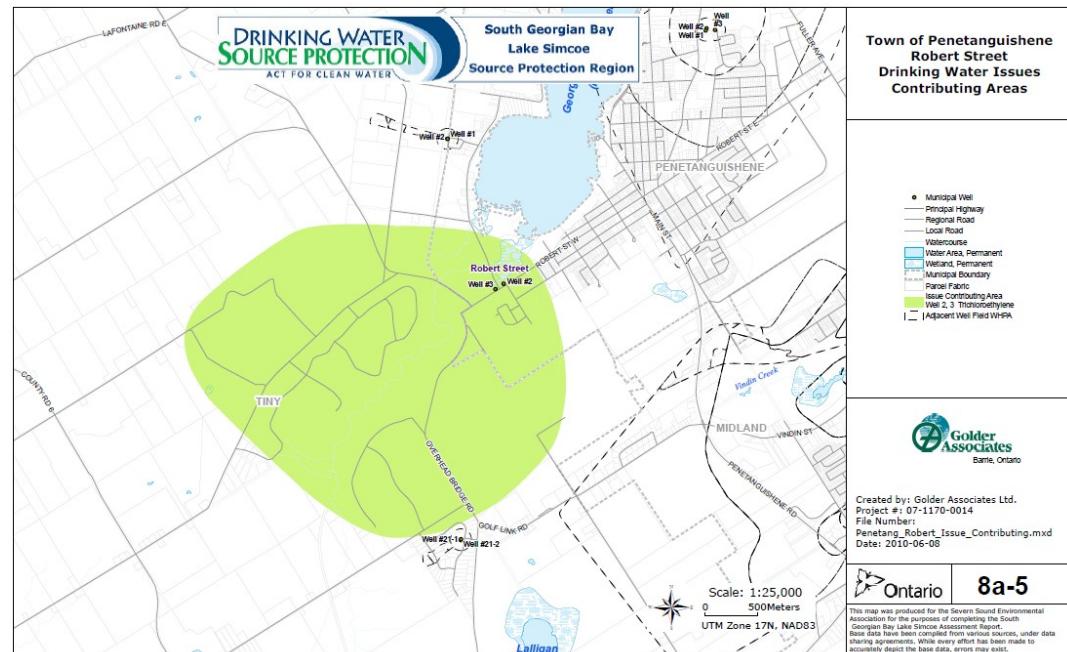
Orillia



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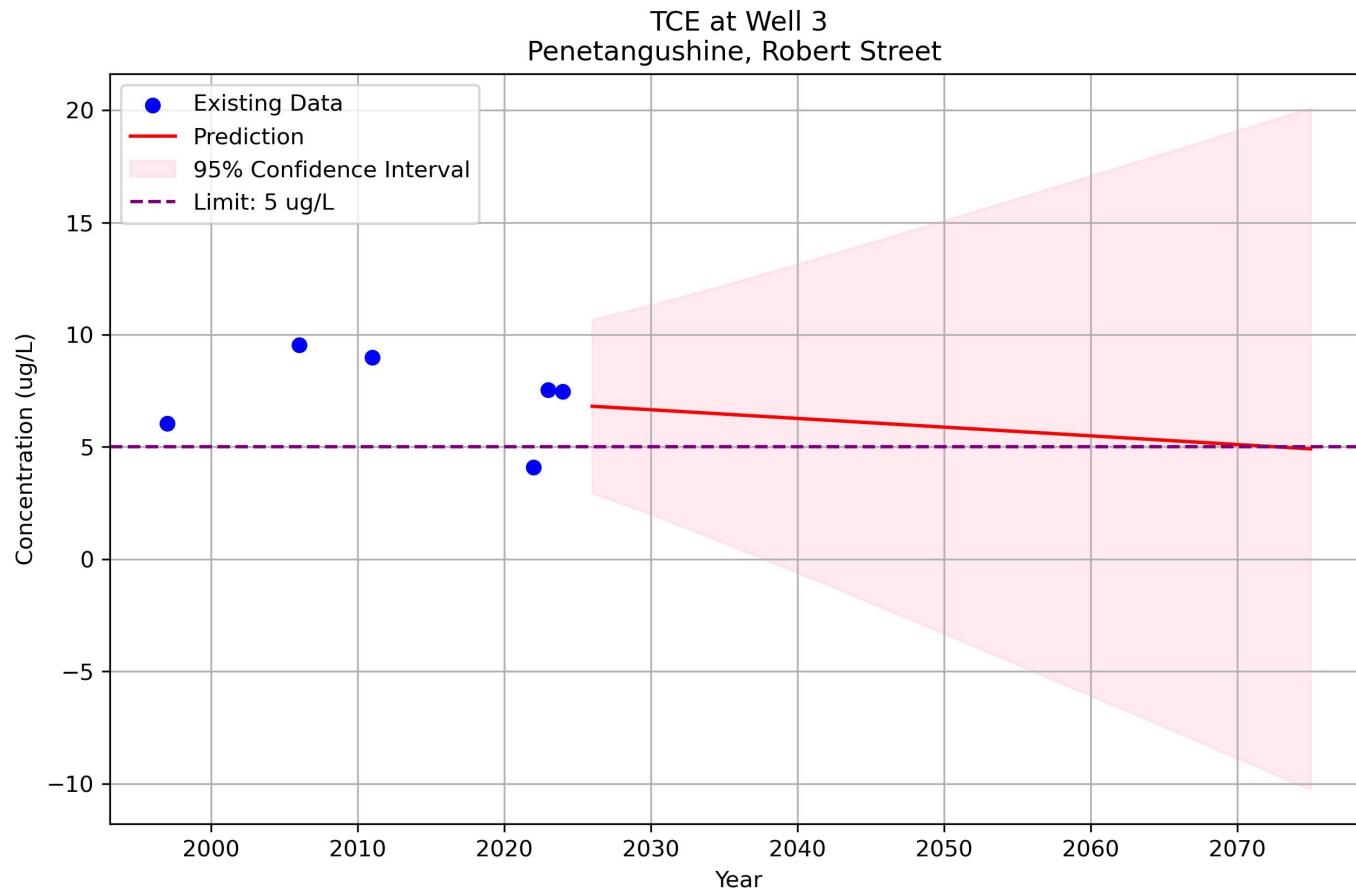
Penetanguishene

- Trichloroethylene (Robert St well)
- Well not currently in service, but may be needed in the future
- Concentrations remain above standard



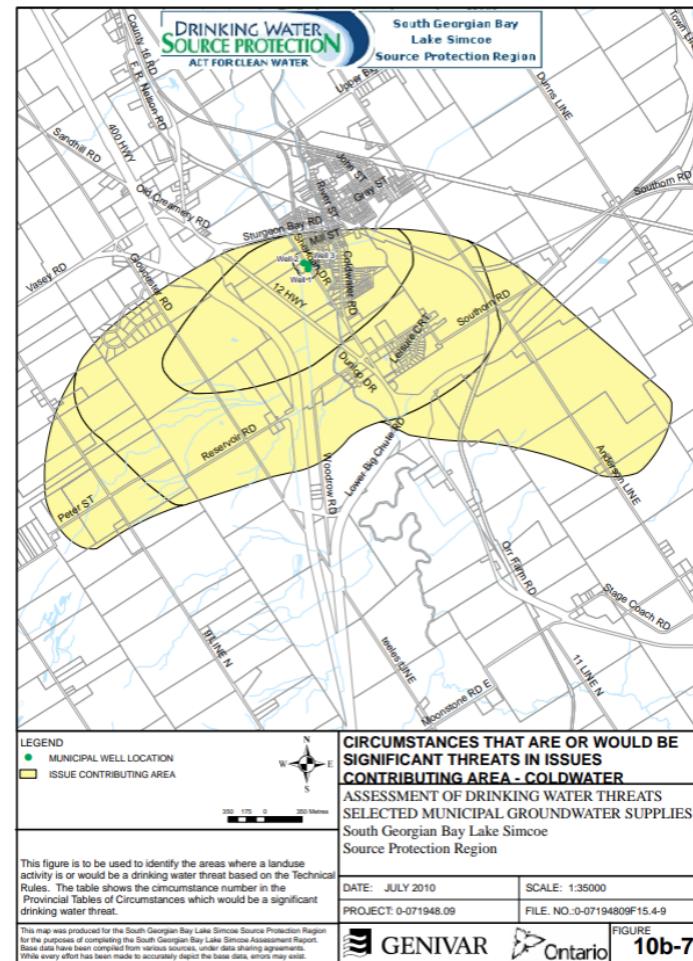
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Penetanguishene

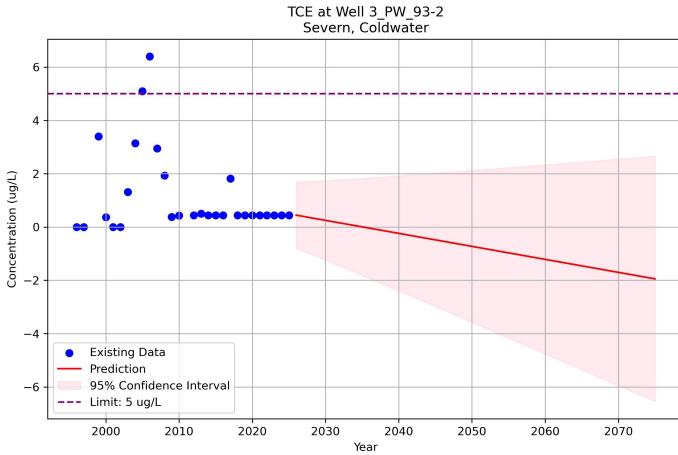
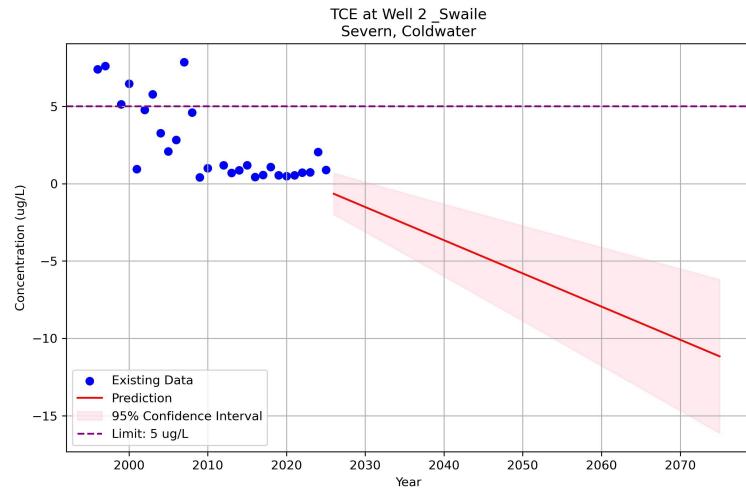
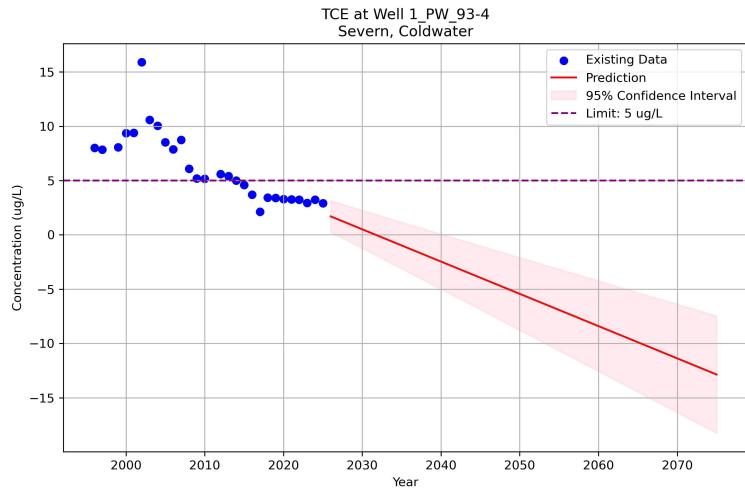


Coldwater (Severn)

- Trichloroethylene (wells 1, 2, 3)
- Concentrations now below Drinking Water Standard, and continuing to decrease
- Issue could be removed



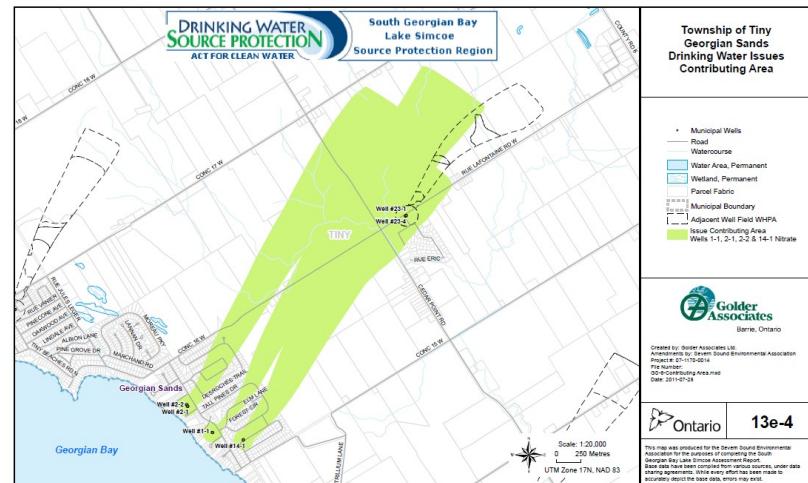
Coldwater (Severn)



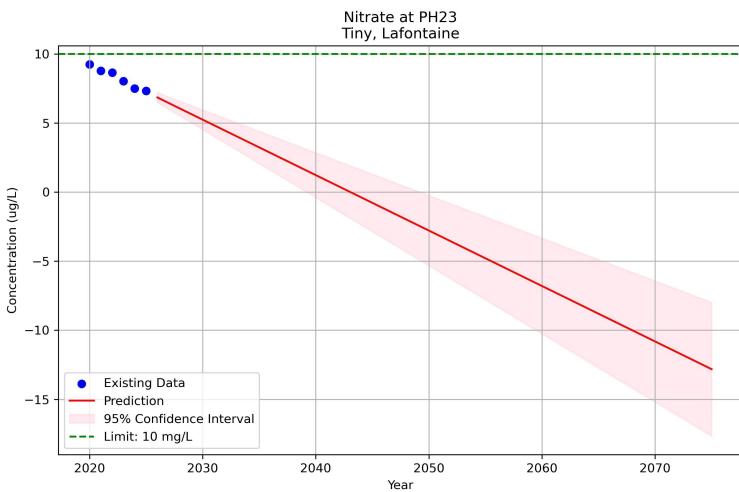
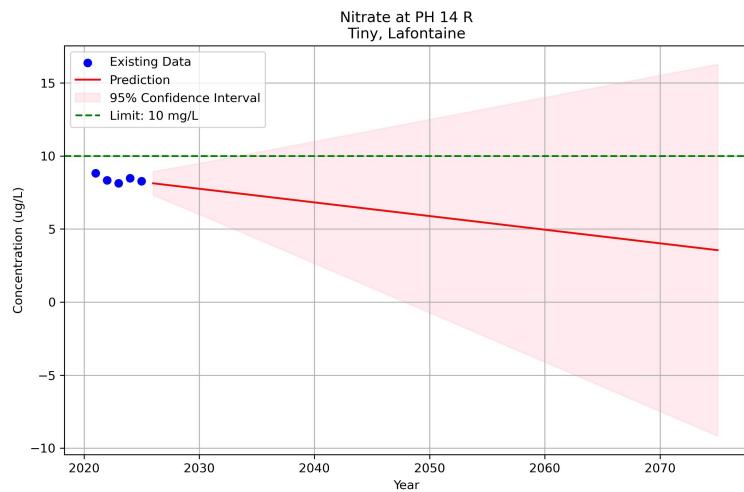
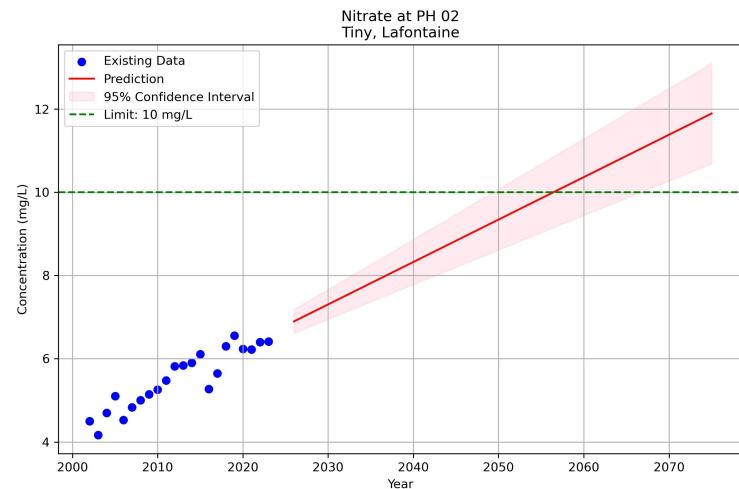
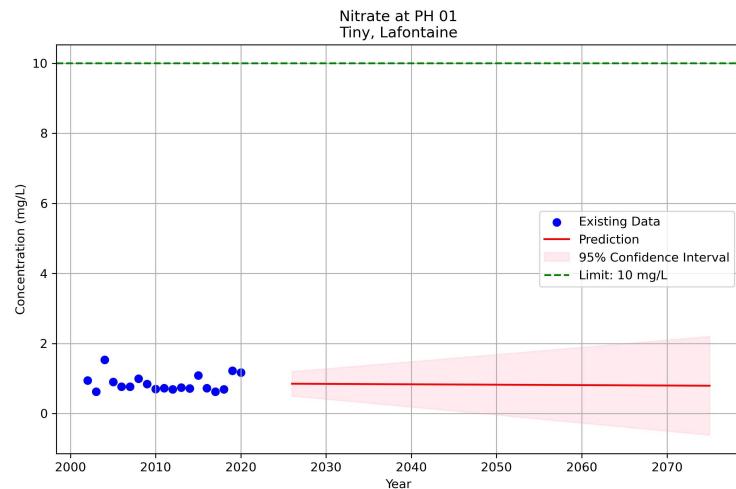
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Tiny Township

- Nitrate (Lafontaine and Georgian Sands)
- Trends are decreasing in well 23, increasing in well 2
- Municipality is managing via mixing

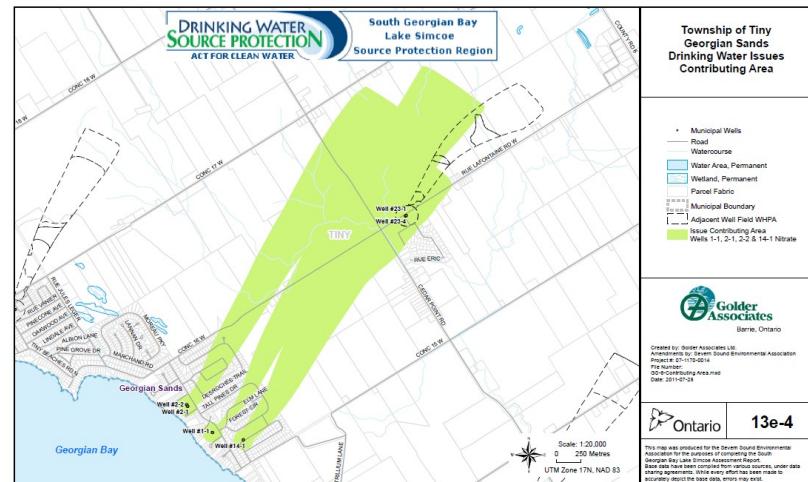


Tiny Township



Tiny Township

- May be evidence that Risk Management Measures are working
- May be evidence of down gradient movement of plume
- Premature to remove Issue



In summary

- Good news at Coldwater – TCE no longer an issue
- Good news on horizon at Lafontaine and Orillia?
- Other wells aren't showing real improvements yet
- Keeping ICAs in place will ensure that protective policies remain as well
- This is a worthwhile process to do from time-to-time

Recommendation

- Use this amendment process to remove Coldwater ICA
- Retain other existing Issues and Issue Contributing Areas in Assessment Report
- Respond to Province that there is not sufficient evidence for de-listing any other than Coldwater

Thank you

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