Ganaraska Region Source Protection Area

Aquifer Vulnerability

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Aquifer Vulnerability

- High
- Medium
- Low

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

www.trentsourceprotection.on.ca

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Ganaraska Assessment Report Map 6-1

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Highly Vulnerable Aquifers

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody
- Highly Vulnerable Aquifers

N

0 1.5 3 6 9 12
Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-2

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Highly Vulnerable Aquifers Vulnerability Scores

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Vulnerability Score

- 6

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-3

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Source Protection Area Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody
- Significant Groundwater Recharge Area

N

0 1.5 3 6 9 12
Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-4

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas Vulnerability Scores

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Source Protection Area Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Vulnerability Scores

- 6
- 4
- 2

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

www.trentsourceprotection.on.ca

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Ganaraska Assessment Report Map 6-5

Ganaraska Region Source Protection Area

Highly Vulerable Aquifers: Managed Lands

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Managed Lands Within HVA

- < 40%
- 40% - 80%
- > 80%

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

www.trentsourceprotection.on.ca

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Township of Otonabee - South Monaghan
COUNTY OF PETERBOROUGH
Township of Cavan Monaghan
CITY OF KAWARTHA LAKES
Township of Alnwick/Haldimand
COUNTY OF NORTHUMBERLAND
Township of Hamilton
Municipality of Port Hope
REGIONAL MUNICIPALITY OF DURHAM
Municipality of Clarington
Town of Cobourg
Rice Lake
Lake Ontario
Millbrook
Harwood
Roseneath
Gores Landing
Bewdley
Centreton
Grafton
Garden Hill
Elizabethville
Camborne
Baltimore
Kendal
Kirby
Tyrone
Orono
Welcome
Port Hope
Newtonville
Newcastle
Bowmanville
7 & 115
35 & 115
401

Ganaraska Assessment Report Map 6-6

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Highly Vulerable Aquifers: Livestock Density

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Livestock Density Within HVA

- < 0.5 NU / acre

N

0 0.15 0.3 0.6 0.9 1.2
Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-7

Ganaraska Region Source Protection Area

Highly Vulerable Aquifers: Total Impervious Surface

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Source Protection Area Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Total Impervious Surface

- < 1%
- 1 to 8 %
- 8 to 80%

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

www.trentsourceprotection.on.ca

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Ganaraska Assessment Report Map 6-8

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Highly Vulnerable Aquifers Vulnerability Scores and Areas for Threats

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Vulnerability Score

- 6

N

0 1.5 3 6 9 12
Kilometers

HVA			
CHEMICAL THREATS			
Area	Provincial Table of Circumstances		
	Significant	Moderate	Low
	-	Table 17 (CSGRAHVA6M)	Table 18 (CSGRAHVA6L)

DNAPL THREATS			
Area	Provincial Table of Circumstances		
	Significant	Moderate	Low
	-	Table 10 (DW6M)	Table 11 (DW6L)

These tables indicate where chemical and DNAPL (dense non-aqueous phase liquid) threats are (or would be for future activities) significant, moderate, or low in Highly Vulnerable Aquifers. The table numbers and codes refer to the Provincial Table of Circumstances that lists the circumstances under which these threats can be significant, moderate, or low. The Provincial Tables of Circumstances can be accessed from: the source protection homepage of ontario.ca or the reports and legislation page of http://trentsourceprotection.on.ca

Trent Conservation Coalition Source Protection Region

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DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas: Managed Lands

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Managed Lands Within SGRA

- < 40%
- 40% - 80%
- > 80%

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-10

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas: Livestock Density

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Livestock Density Within SGRA

- <0.5 NU / acre

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

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Ganaraska Assessment Report Map 6-11

DRINKING WATER SOURCE PROTECTION
ACT FOR CLEAN WATER

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas: Total Impervious Surface

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Source Protection Area Boundary
- Waterbody

Total Impervious Surface Area Within SGRA

- < 1%
- 1 - 8%
- 8 - 80%

N

0 1.5 3 6 9 12

Kilometers

Trent Conservation Coalition Source Protection Region

www.trentsourceprotection.on.ca

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Ganaraska Assessment Report Map 6-12

Ganaraska Region Source Protection Area

Significant Groundwater Recharge Areas Vulnerability Scores and Areas for Threats

Legend

- Settlement
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Source Protection Area Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality
- Waterbody

Vulnerability Scores

- 6
- 4
- 2

N

0 1.5 3 6 9 12

Kilometers

SGRA			
CHEMICAL THREATS			
Area	Provincial Table of Circumstances		
	Significant	Moderate	Low
	-	Table 17 (CSGRAHVA6M)	Table 18 (CSGRAHVA6L)

DNAPL THREATS			
Area	Provincial Table of Circumstances		
	Significant	Moderate	Low
	-	Table 10 (DW6M)	Table 11 (DW6L)

These tables indicate where chemical and DNAPL (dense non-aqueous phase liquid) threats are (or would be for future activities) significant, moderate, or low in Significant Groundwater Recharge Areas. The table numbers and codes refer to the Provincial Table of Circumstances that lists the circumstances under which these threats can be significant, moderate, or low. The Provincial Tables of Circumstances can be accessed from: the source protection homepage of ontario.ca or the reports and legislation page of http://trentsourceprotection.on.ca

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Ganaraska Assessment Report Map 6-13