

QUINTE CONSERVATION

Moira River, Napanee Region and Prince Edward Region Watersheds.
 RR # 2, 2061 Old Highway # 2, Belleville, Ontario, K8N 4Z2.
 www.quinteconservation.ca, 613-968-3434

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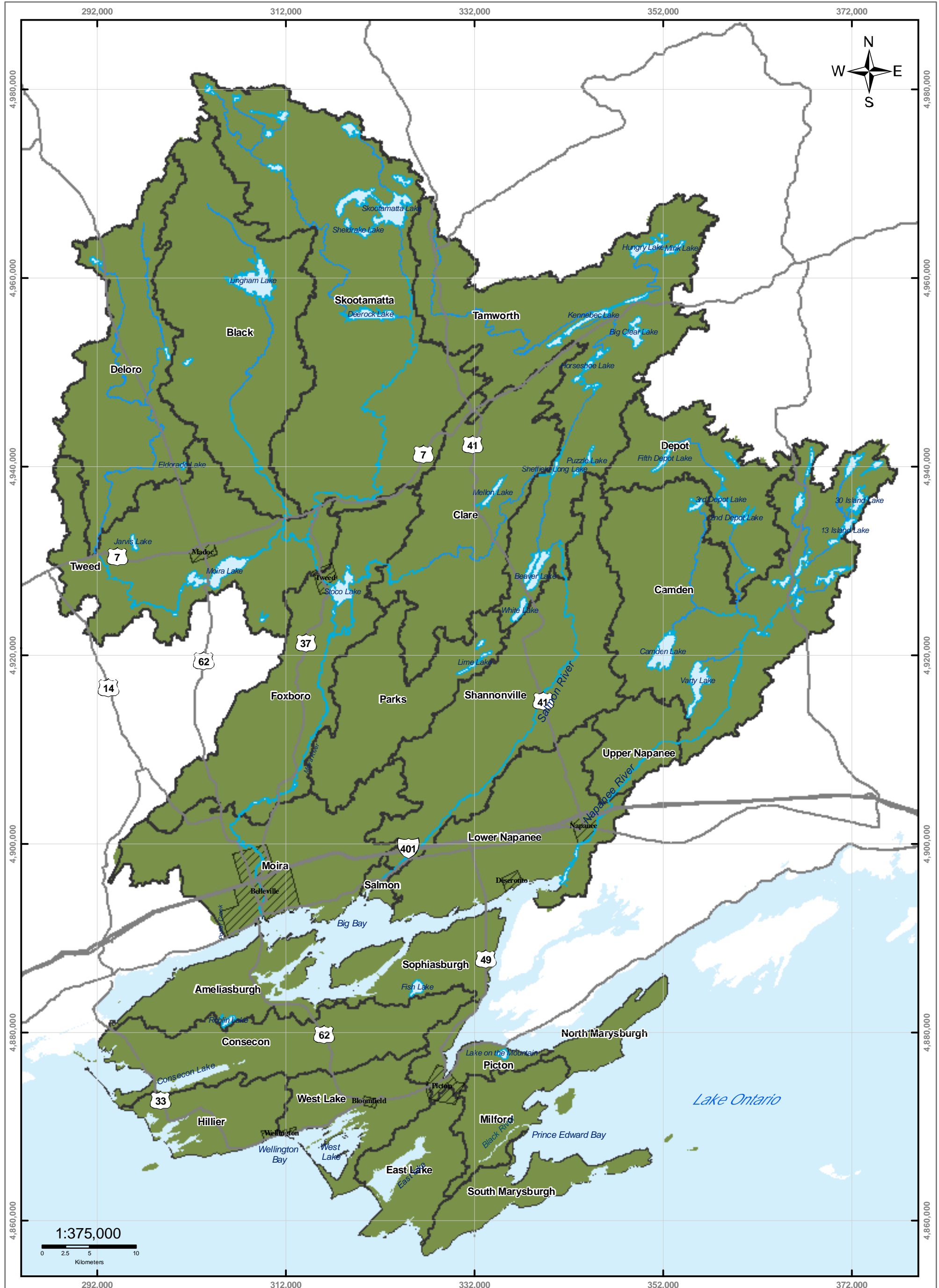
Digital Mapping Sources:
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 Index Map - ESRI Canada

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Legend

— Highway 401	— Lakes	— Precambrian Terrane
— Highways	— Quinte Watershed Areas	— Limestone Terrane
— Rivers	— Populated Areas	— Prince Edward County Region

Map 2.1 Quinte Conservation Watersheds



Moira River, Napanee Region and Prince Edward Region Watersheds.
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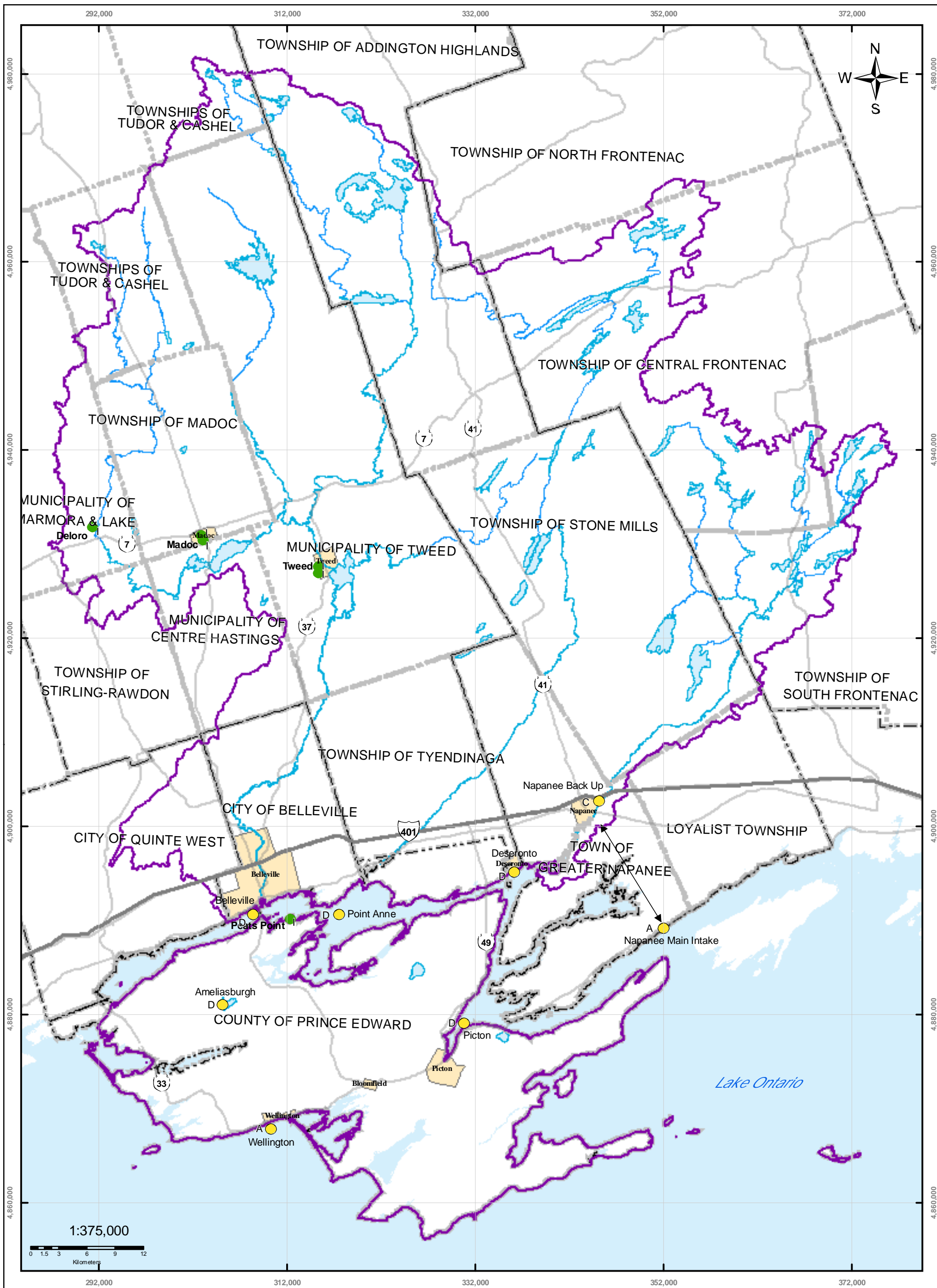
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Legend

- Highway 401 — Rivers □ Subwatersheds ■ Quinte Source Protection Planning Region
- Highways □ Lakes ▨ Populated Areas

Map 2.2 Quinte Conservation Subwatersheds



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Molise River, Napanee Region and Prince Edward Region Watersheds.
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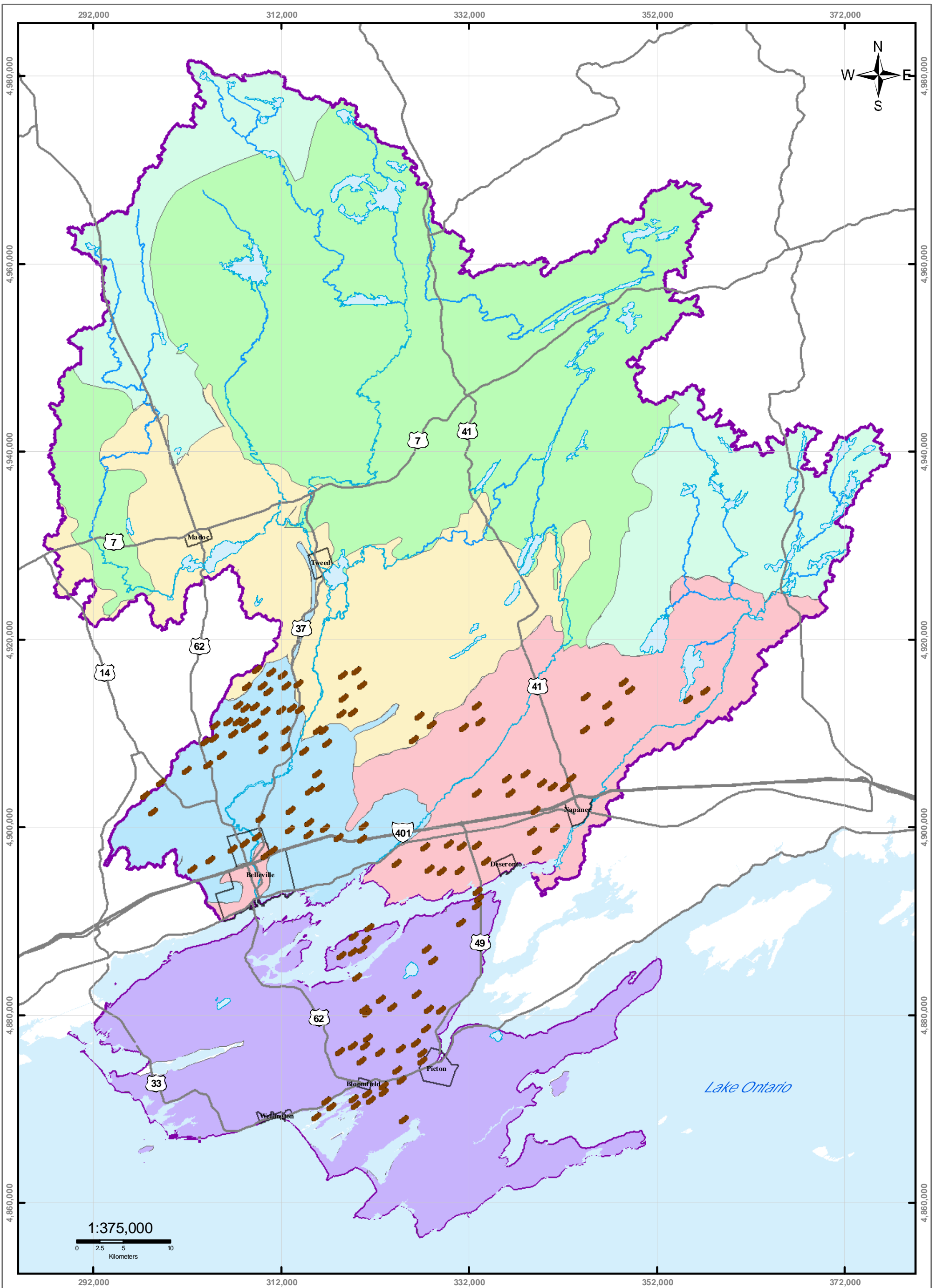
Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Drinking Water System Locations - MOE

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Map 2.3
Drinking Water System Locations & Areas Served

Legend

- Municipal Drinking Water Wells
- Municipal Drinking Water Intakes
- Highway 401
- Highways
- Rivers
- Lakes
- County Boundaries
- Township Boundaries
- Approximate Service Locations
- Quinte Watershed Region



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Mora River, Napanee Region and Prince Edward Region Watersheds.
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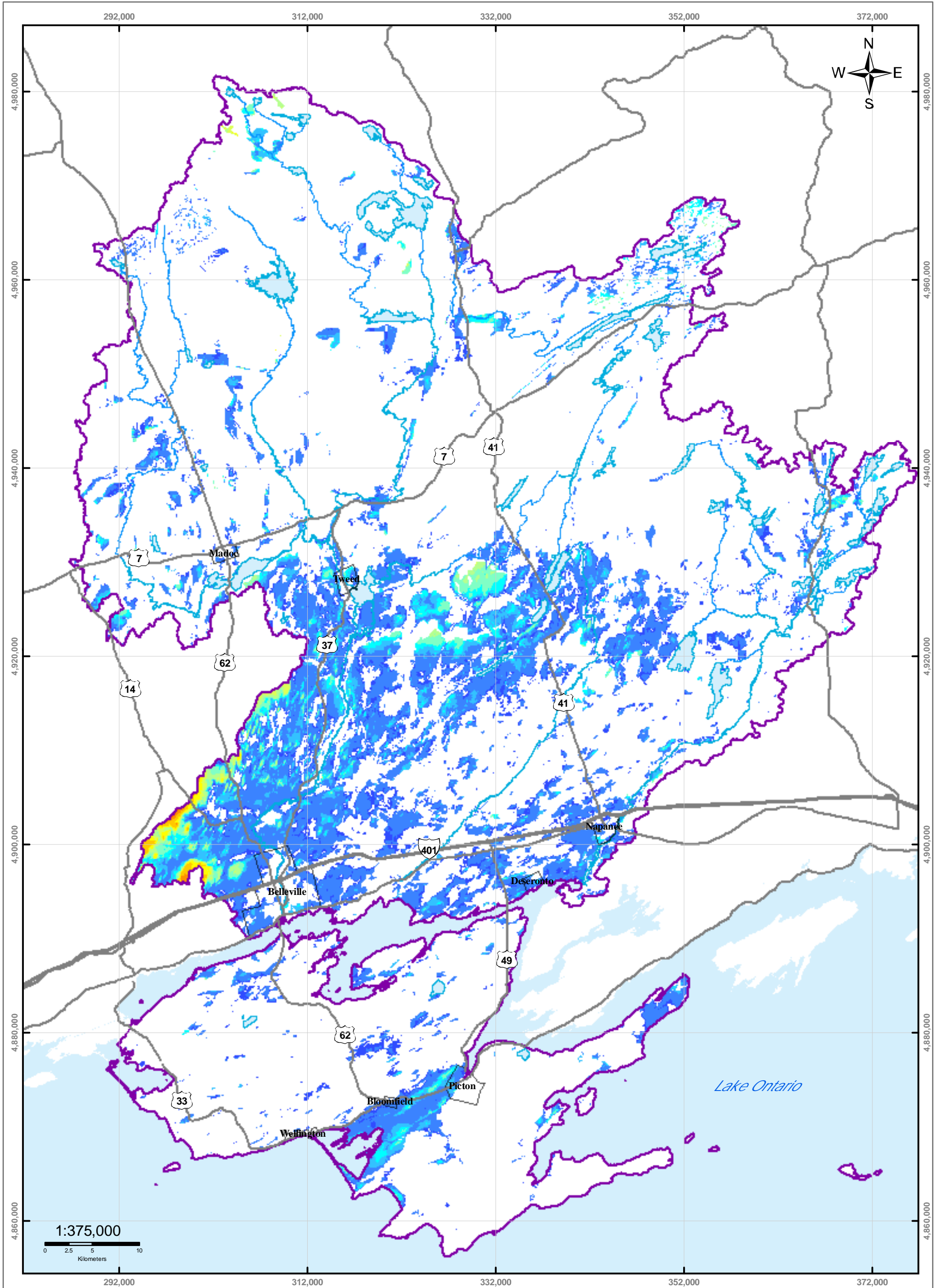
Digital Mapping Sources:
 Base Map - Ontario Ministry of Natural Resources
 Physiographic Regions - Chapman & Putman 1984 & Dillon Consulting

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Legend

- Drumlins
- Rivers
- Lakes
- Highways
- Highway 401
- Algonquin Highlands
- Georgian Bay Fringe
- Quinte Region
- Peterborough Drumlin Field
- Dummer Moraines (Hummocky Topography)
- Prince Edward Peninsula
- Napanee Plain

Map 2.4 Physiographic Regions



Legend

- Highway 401
- Highways
- Rivers
- Lakes
- Populated Areas
- Quinte Region

Overburden Thickness (m)

□ <math>< 1.5</math>	□ 10 - 15	□ 40 - 50	□ 80 - 100
□ 1.5 - 3	□ 15 - 20	□ 50 - 60	□ > 100
□ 3 - 10	□ 20 - 30	□ 60 - 70	
	□ 30 - 40	□ 70 - 80	



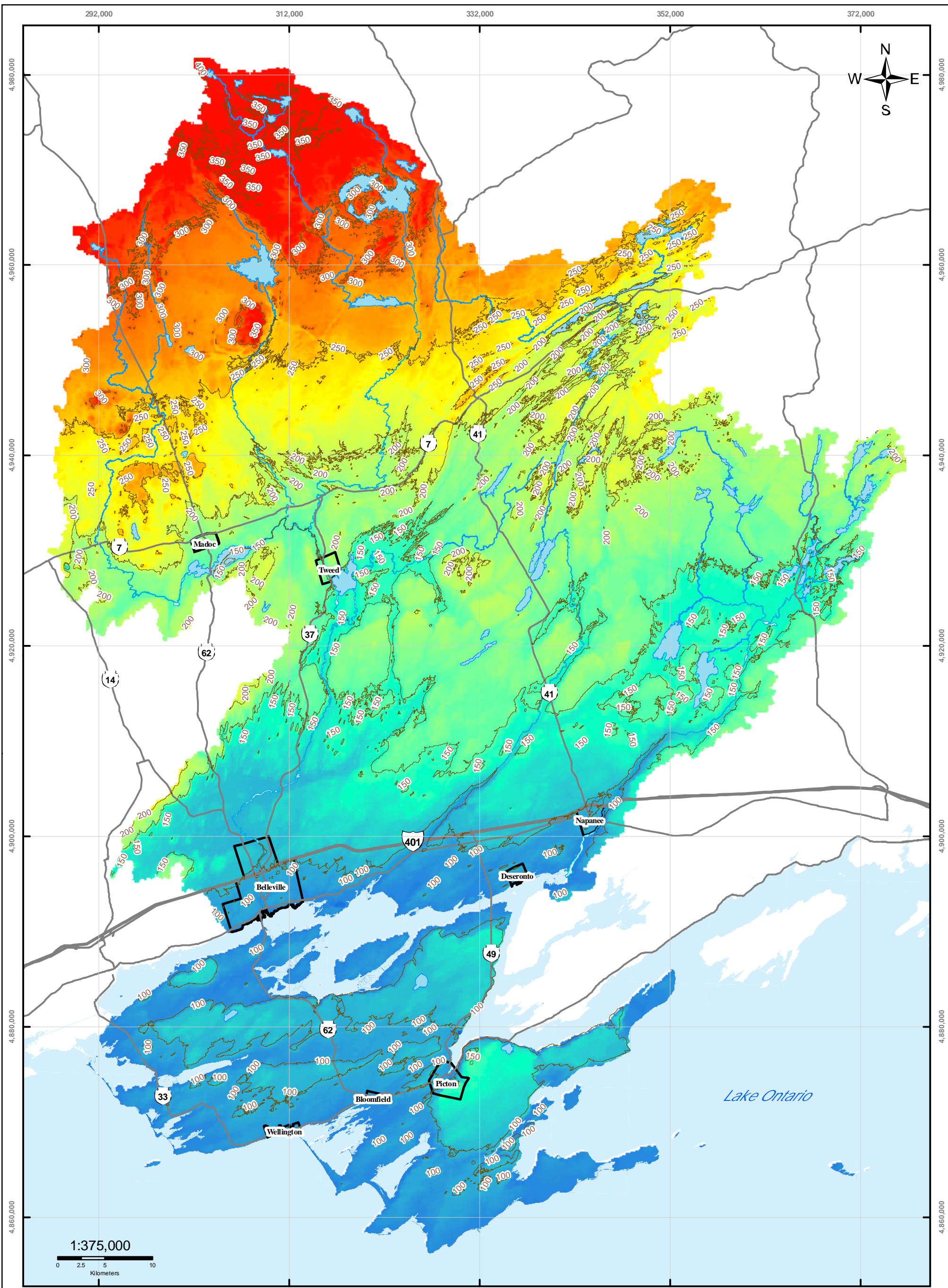
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Base Map - Ontario Ministry of Natural Resources
Overburden Thickness - Dillon Consulting for QC

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Map 2.5 Overburden Thickness



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Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Digital Elevation Model - Ministry of Natural Resources

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Legend

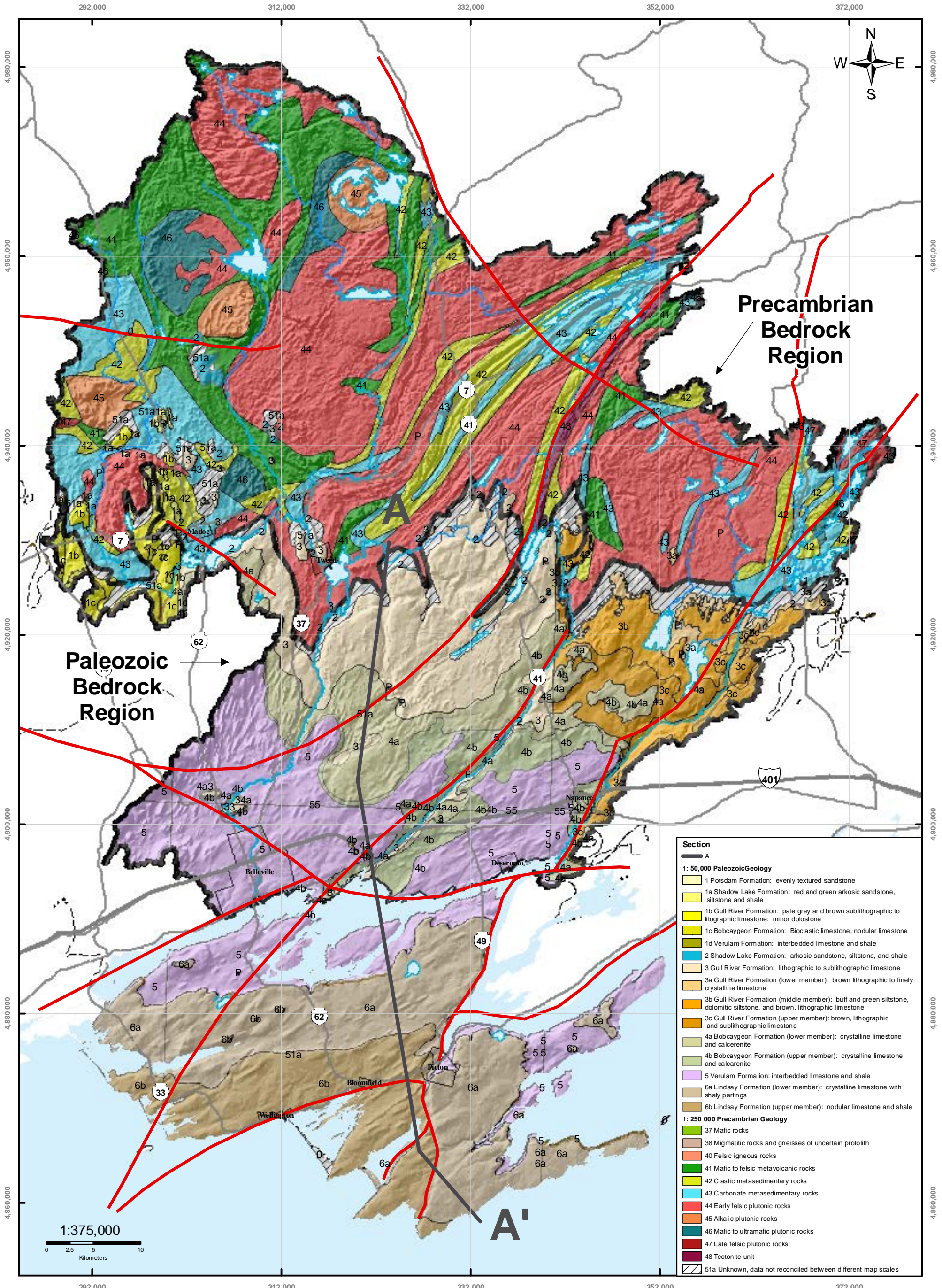
- contour50m
- Rivers
- Highway 401
- Lakes
- Highways
- Populated Areas

Elevation (m)

Value

High : 458
 Low : 49

Map 2.6 Topography



Section
A

1: 50,000 Paleozoic Geology

- 1 Potsdam Formation: evenly textured sandstone
- 1a Shadow Lake Formation: red and green arkosic sandstone, siltstone and shale
- 1b Gull River Formation: pale grey and brown sublithographic to lithographic limestone: minor dolostone
- 1c Bobcaygeon Formation: Bioclastic limestone, nodular limestone
- 1d Verulam Formation: interbedded limestone and shale
- 2 Shadow Lake Formation: arkosic sandstone, siltstone, and shale
- 3 Gull River Formation: lithographic to sublithographic limestone
- 3a Gull River Formation (lower member): brown lithographic to finely crystalline limestone
- 3b Gull River Formation (middle member): buff and green siltstone, dolomitic siltstone, and brown, lithographic limestone
- 3c Gull River Formation (upper member): brown, lithographic and sublithographic limestone
- 4a Bobcaygeon Formation (lower member): crystalline limestone and calcarenite
- 4b Bobcaygeon Formation (upper member): crystalline limestone and calcarenite
- 5 Verulam Formation: interbedded limestone and shale
- 6a Lindsay Formation (lower member): crystalline limestone with shaly partings
- 6b Lindsay Formation (upper member): nodular limestone and shale

1: 250 000 Precambrian Geology

- 37 Mafic rocks
- 38 Migmatitic rocks and gneisses of uncertain protolith
- 40 Felsic igneous rocks
- 41 Mafic to felsic metavolcanic rocks
- 42 Clastic metasedimentary rocks
- 43 Carbonate metasedimentary rocks
- 44 Early felsic plutonic rocks
- 45 Alkalic plutonic rocks
- 46 Mafic to ultramafic plutonic rocks
- 47 Late felsic plutonic rocks
- 48 Tectonite unit
- 51a Unknown, data not reconciled between different map scales

Legend

- Approximate Faults
- Interpreted Faults
- - - Geological Boundary - position approximate
- Geological Boundary - position interpreted
- Geological Boundary - observed
- Highway 401
- Highways
- Populated Areas
- Rivers
- Lakes

Map 2.7 Bedrock Geology

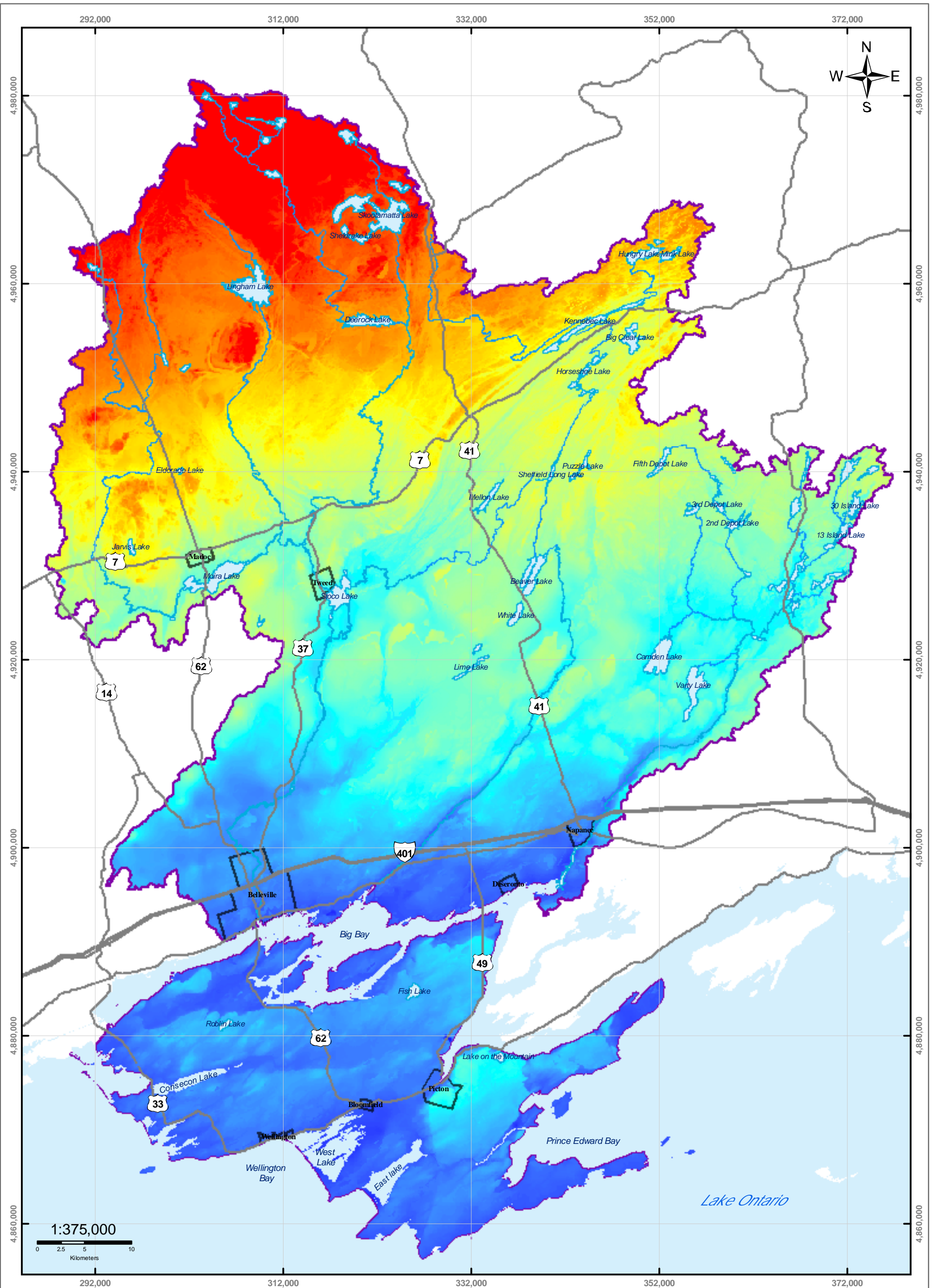


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Base Map - Ministry of Natural Resources
Bedrock Geology - Ministry of Natural Resources

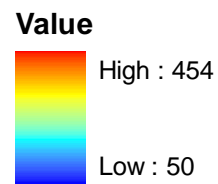
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Legend

- Highway 401
- Highways
- Rivers
- Lakes
- Populated Areas
- Quinte Region

Bedrock Topography (masl)



Map 2.8 Bedrock Topography



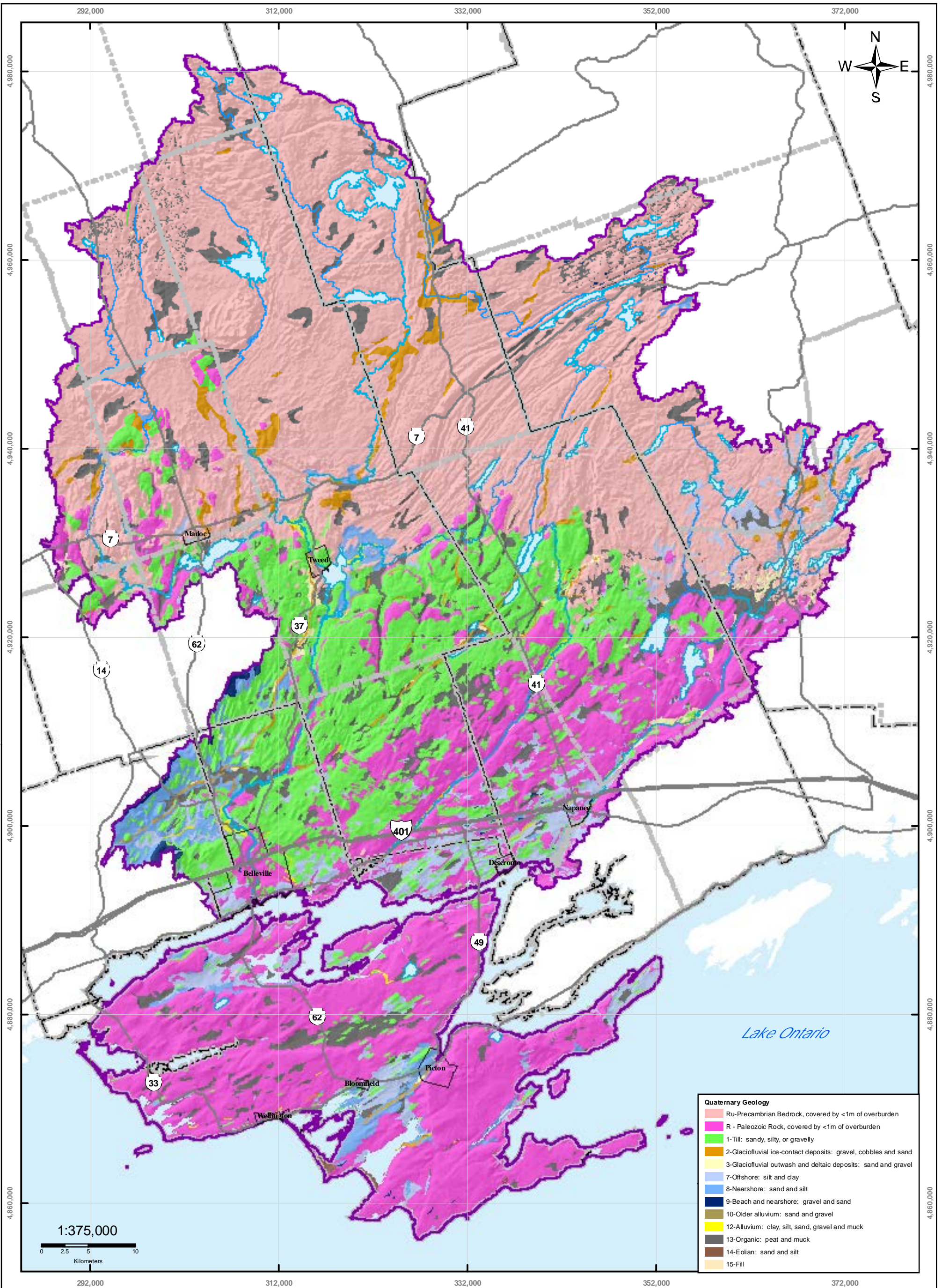
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Digital Mapping Sources:
Base Map - Ontario Ministry of Natural Resources
Bedrock Topography - Dillon Consulting

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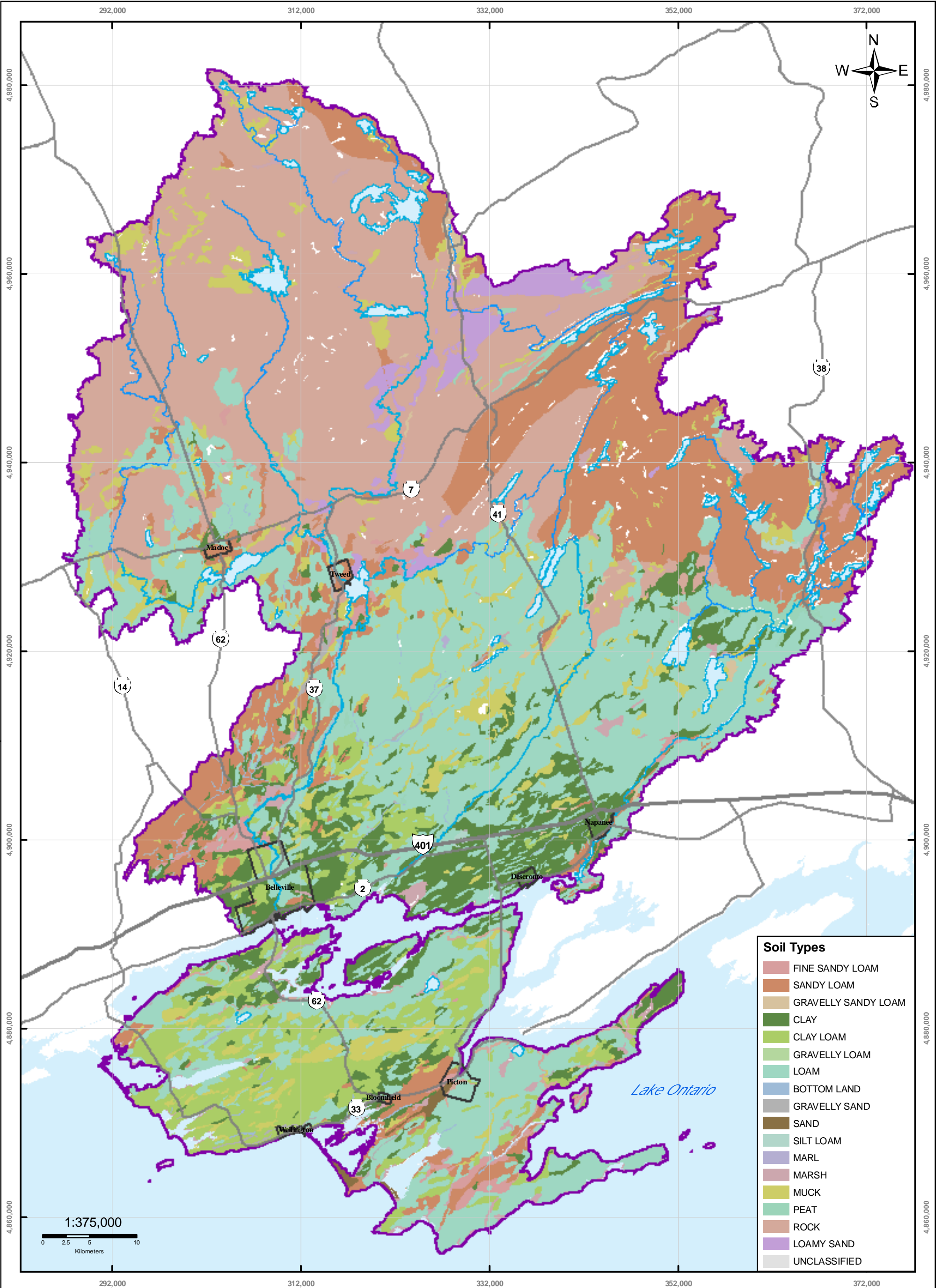
Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Surficial Geology - Ministry of Natural Resources

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Legend

Highway 401	Rivers	County Boundaries	Populated Areas
Highways	Lakes	Township Boundaries	QC Region

Map 2.9 Surficial Geology

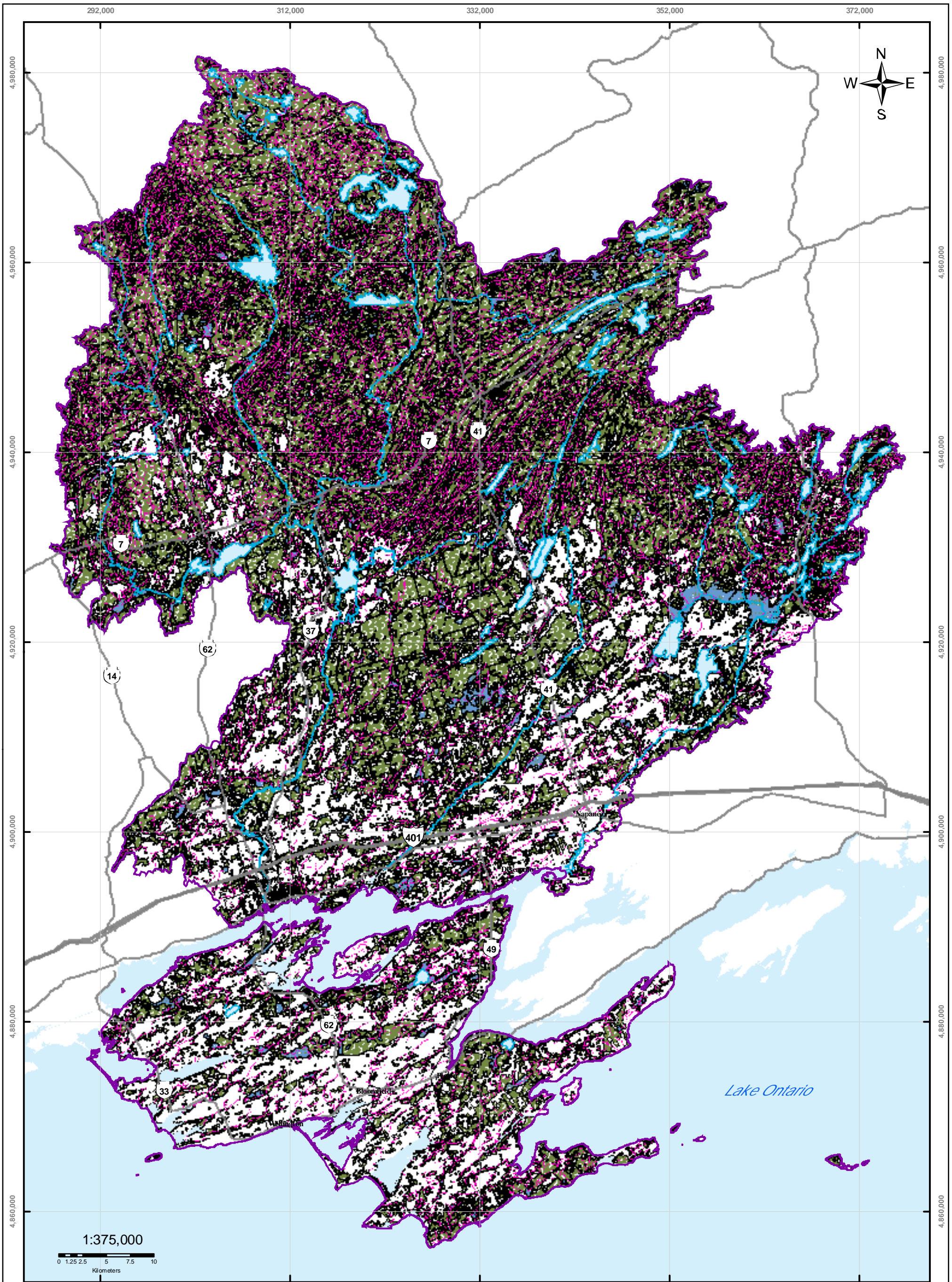


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Base Map - Ministry of Natural Resources
Soil Data - Ministry of Natural Resources

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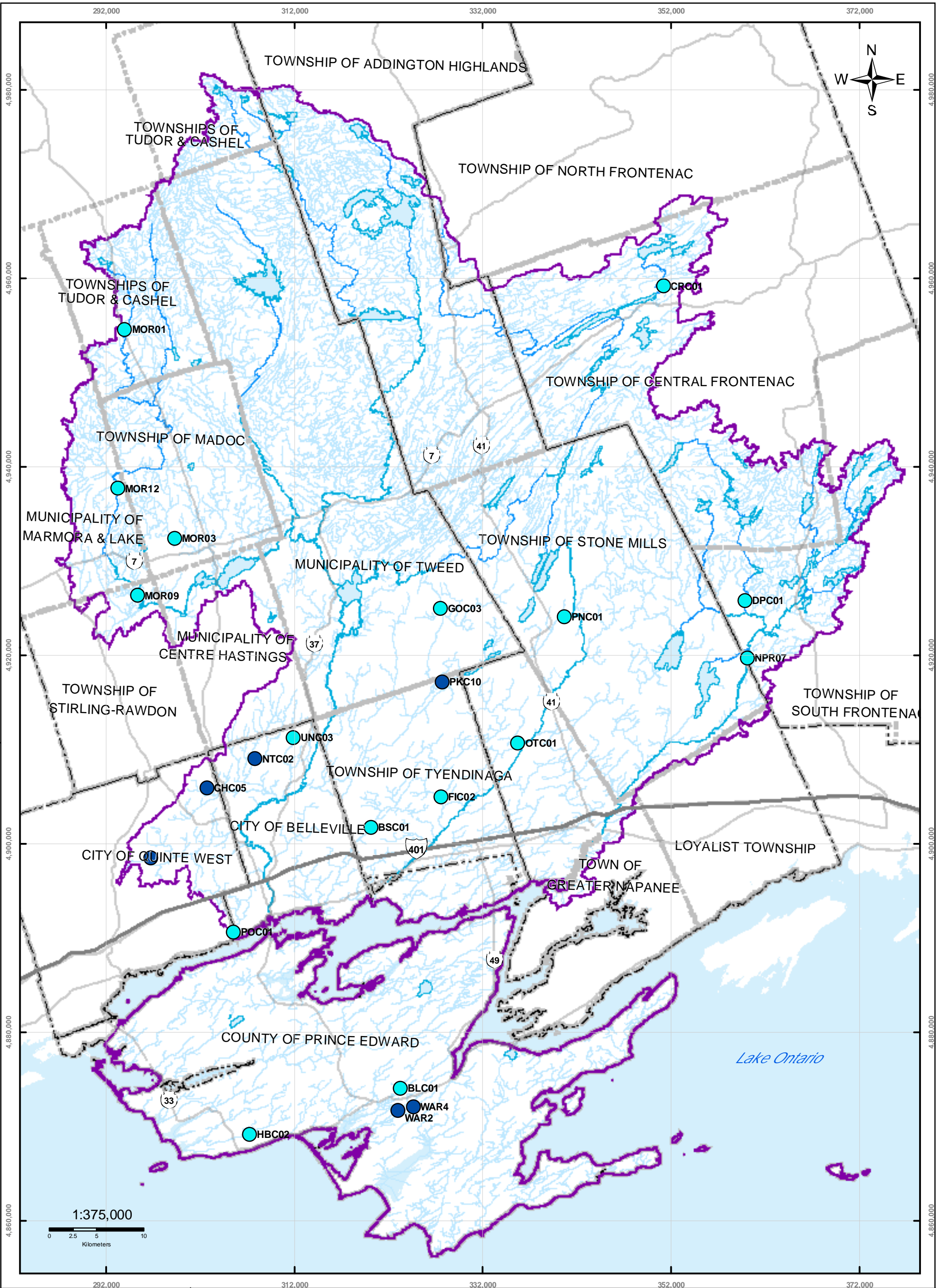
Digital Mapping Sources:
 Base Map - Ministry of Natural Resources (MNR)
 Naturally Vegetated Area - Derived from MNR Landcover 28
 Stream Buffers - Derived from MNR Stream Flow data

Legend

- Highway 401 — Rivers □ Populated Areas ■ Stream Buffer (30 meters)
- Highways ■ Lakes ■ Wooded Areas ■ Wetland Area, Permanent

Gap

Map 2.11 Natural Vegetative Cover



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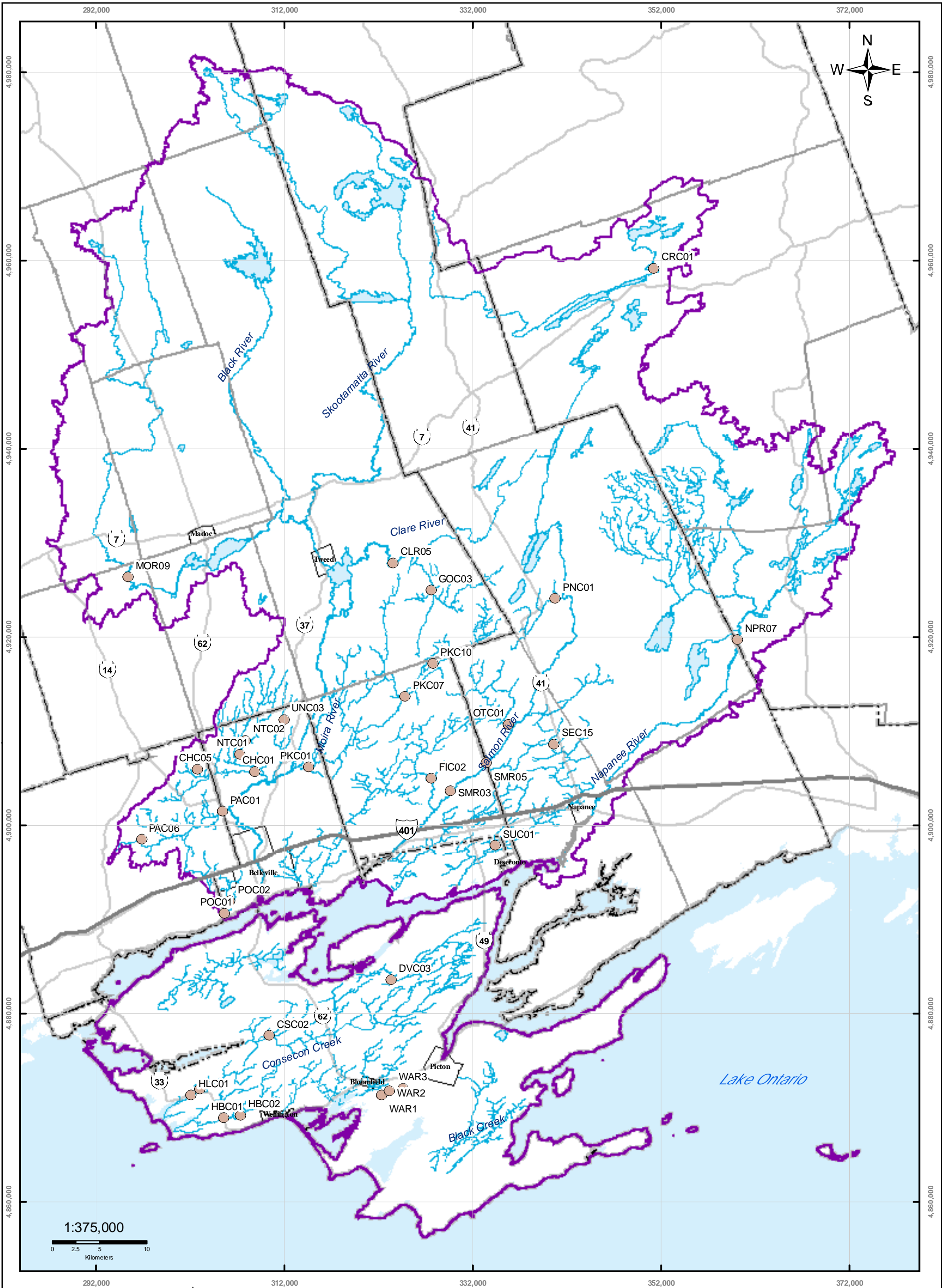
Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Temperature Logger - Quinte Conservation

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Legend

- | | | |
|---------------|-----------------------|-------------------------------------|
| — Highway 401 | ■ Lakes | 2006/2007 Avg Temp (celcius) |
| — Highways | ▭ Township Boundaries | ● Cold |
| — Rivers | ▭ County Boundaries | ● Cool |
| | ▭ QC Region | ● Warm |

Map 2.12 Stream Temperature Classes



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Digital Mapping Sources:
 Base Map - Ministry of Natural Resources

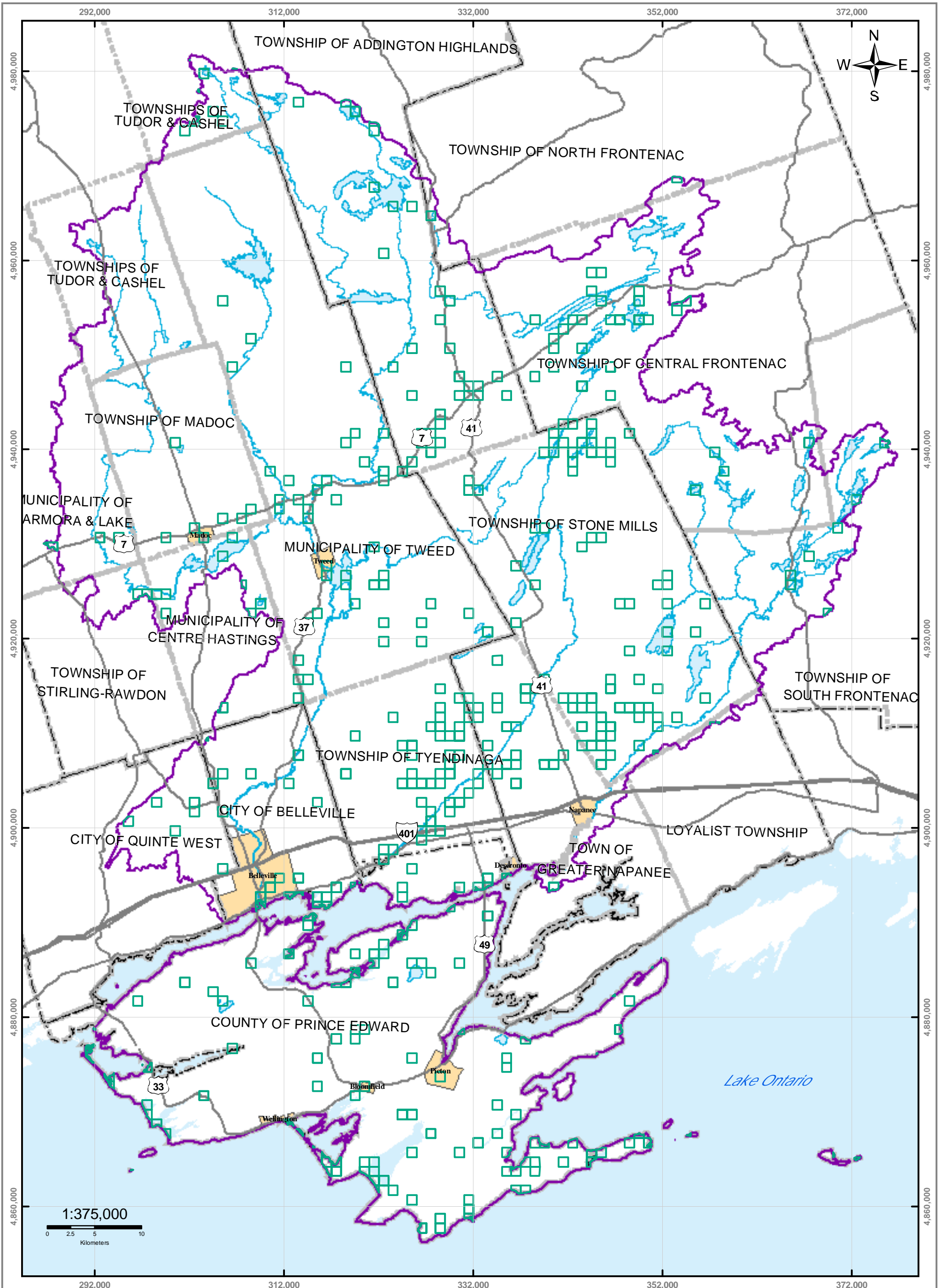
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Legend

	OBBN Sites		Rivers		County Boundaries
	Highway 401		Lakes		Township Boundaries
	Highways		QC Region		Populated Areas

Map 2.13

Aquatic Macroinvertebrate Communities



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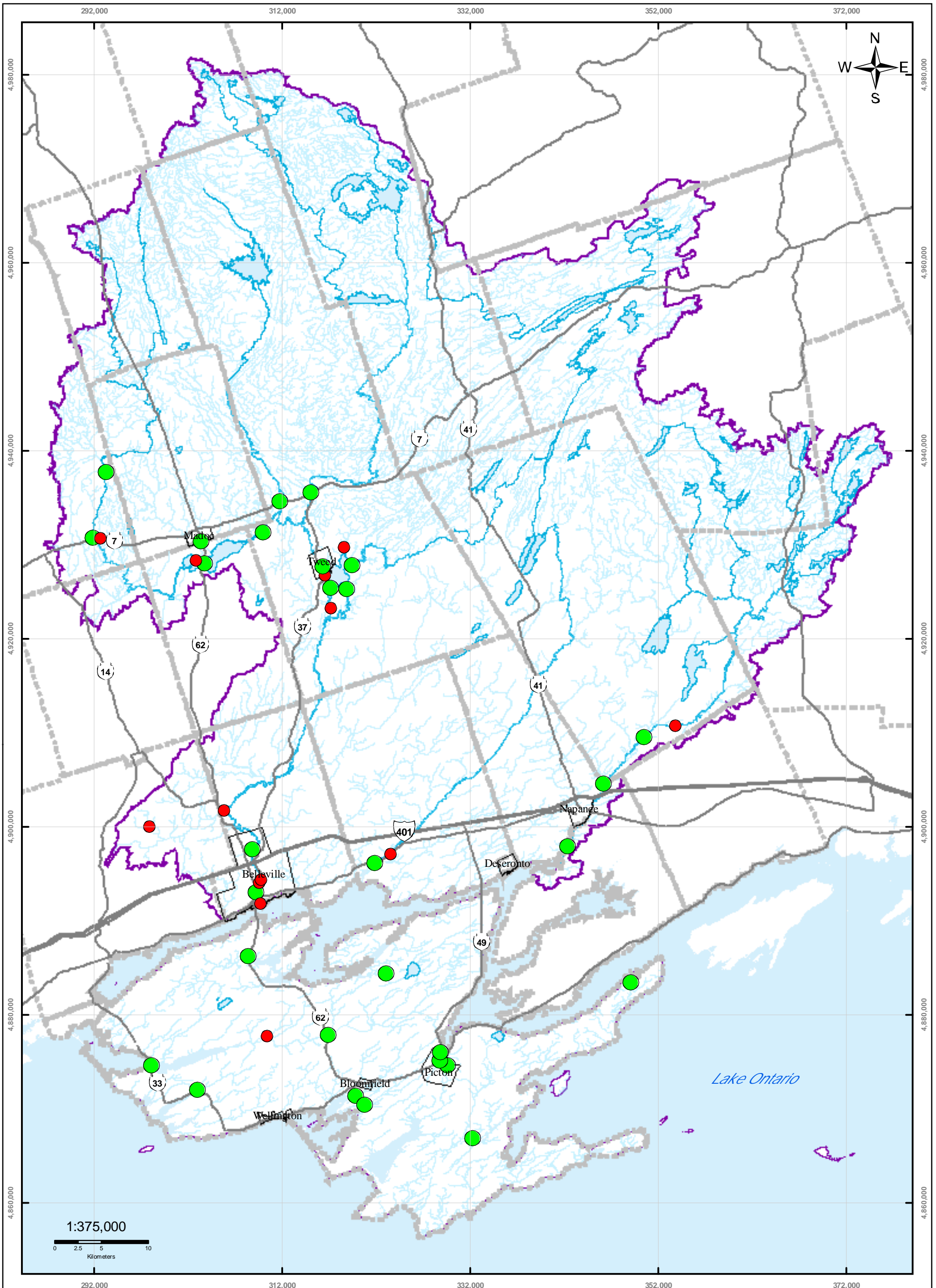
Digital Mapping Sources:
 Base Map - Ontario Ministry of Natural Resources
 Rare Species - Ontario Ministry of Natural Resources

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Legend

— Highway 401	— Lakes	--- County Boundaries
— Highways	— Populated Areas	--- Township Boundaries
— Rivers	— Quinte Region	□ Rare Species Occurrence

Map 2.14 Rare Species Occurrence



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Main River, Napanee Region and Prince Edward Region Watersheds.
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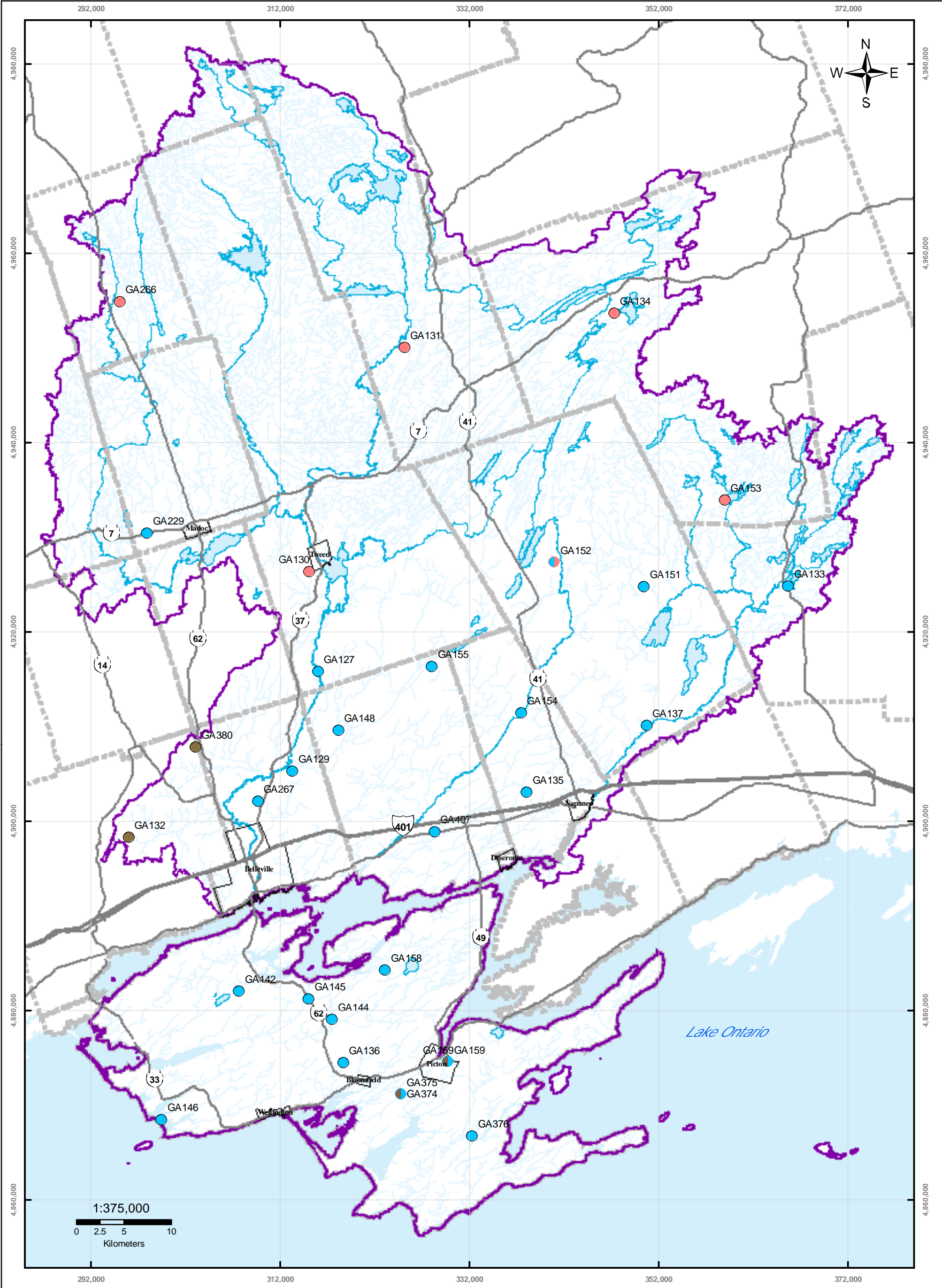
Digital Mapping Sources:
 Base Map - Ontario Ministry of Natural Resources
 PWQMN Coordinates - MOE

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Legend

- | | | | |
|--------------------|---------------|-----------------------|-------------|
| PWQMN Sites | — Highway 401 | ■ Lakes | ■ QC Region |
| ● Current | — Highways | ⋯ Township Boundaries | |
| ● Discontinued | — Rivers | ▭ Populated Areas | |

Map 2.15 Provincial Water Quality Monitoring Network (PWQMN) Stream and River Station Locations



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Mtina River, Napanee Region and Prince Edward Region Watersheds:
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Digital Mapping Sources:
Base Map - Ontario Ministry of Natural Resources
PGMN Coordinates - Quinte Conservation

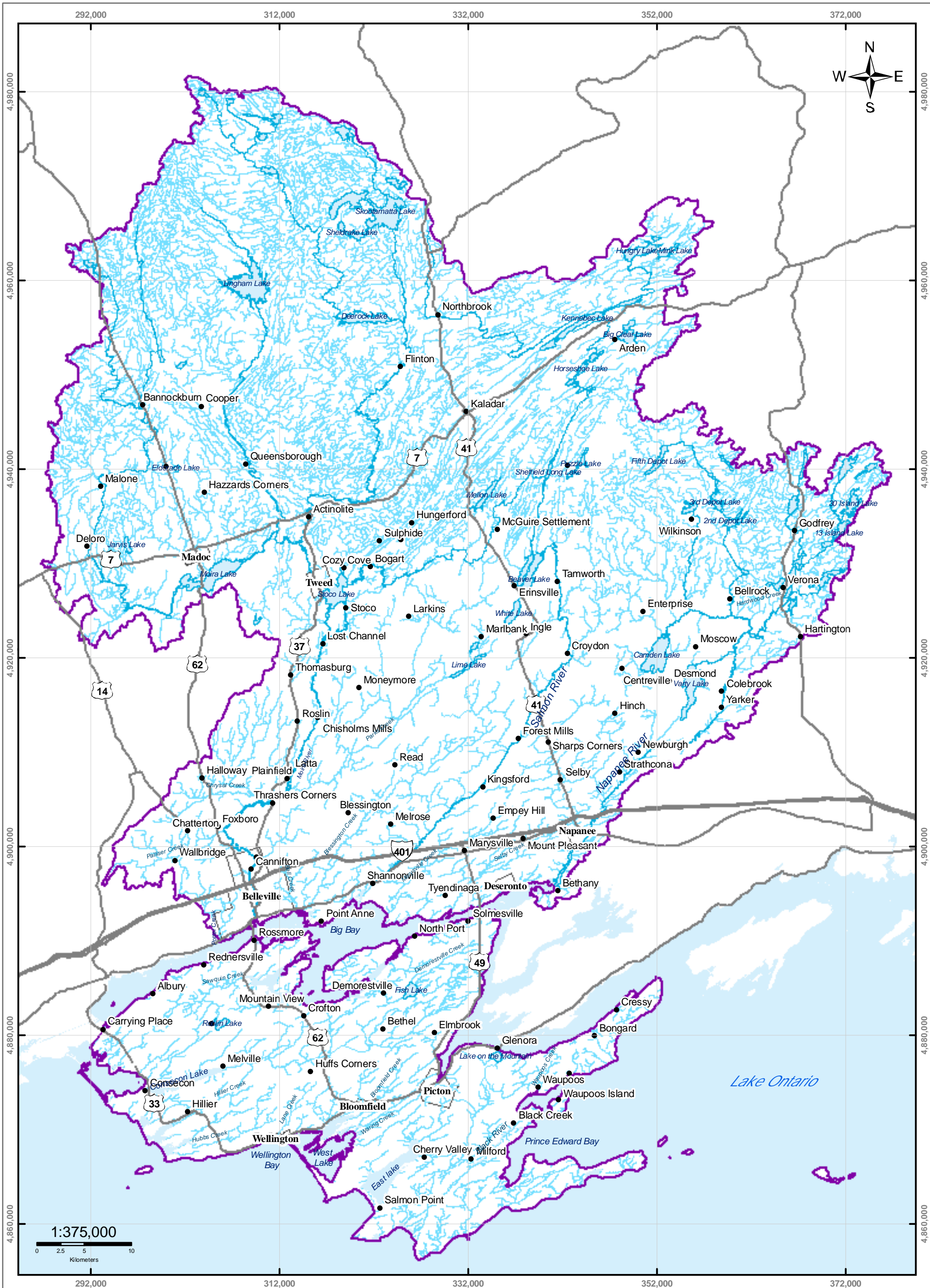
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Legend

PGMN Aquifer Type	Overburden	Highways	Populated Areas
Limestone	Overburden/Limestone	Rivers	QC Region
Limestone/Precambrian	Precambrian	Lakes	Township Boundaries
	Highway 401		

Map 2.16

Provincial Groundwater Monitoring Network Wells



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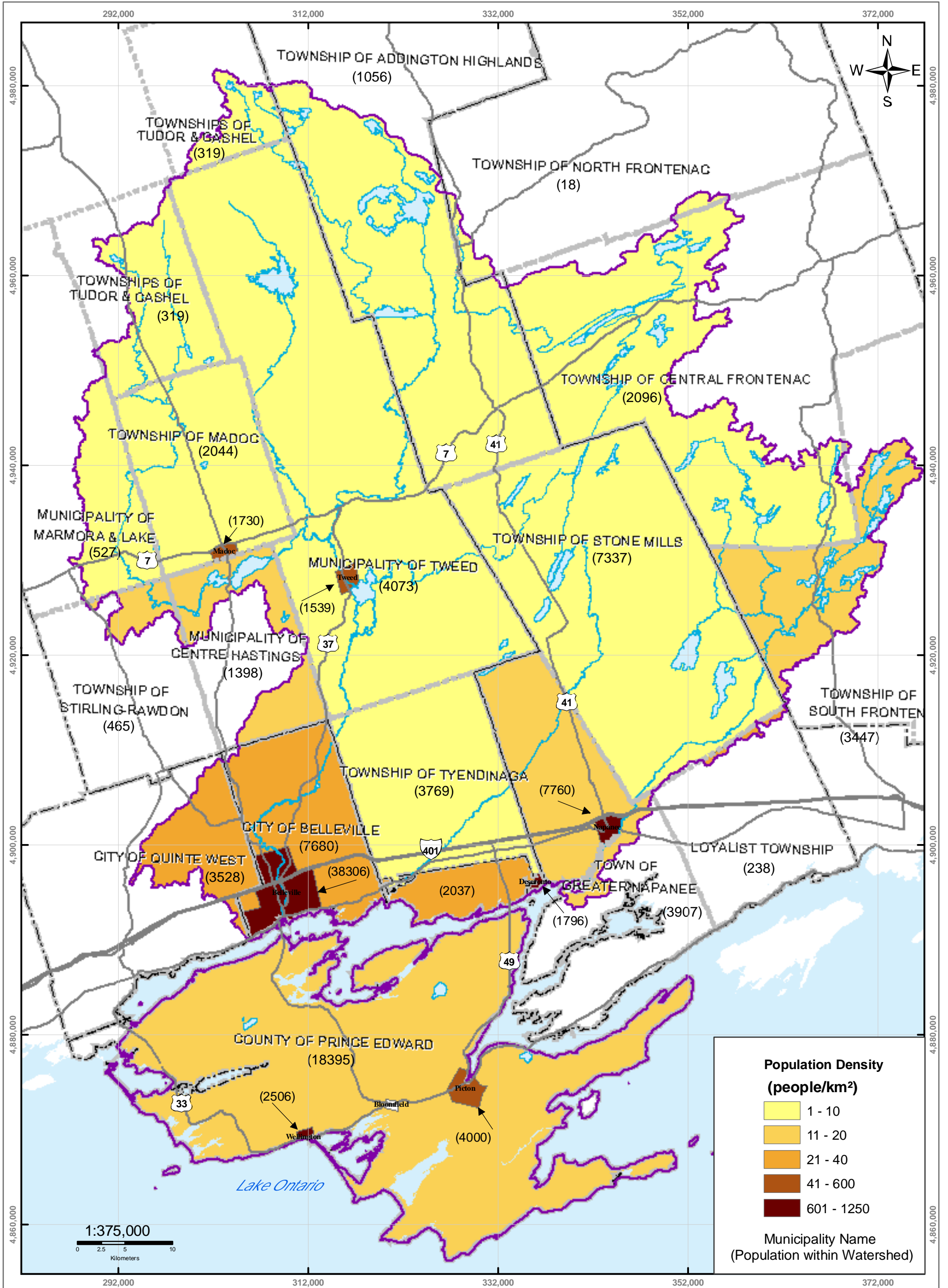
Digital Mapping Sources:
 Base Map - Ontario Ministry of Natural Resources
 Index Map - ESRI Canada

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Legend

- Highway 401
- Highways
- Rivers
- Lakes
- Quinte Region
- Populated Areas

Map 2.17 Settlement Areas



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Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Population Data - Statistics Canada

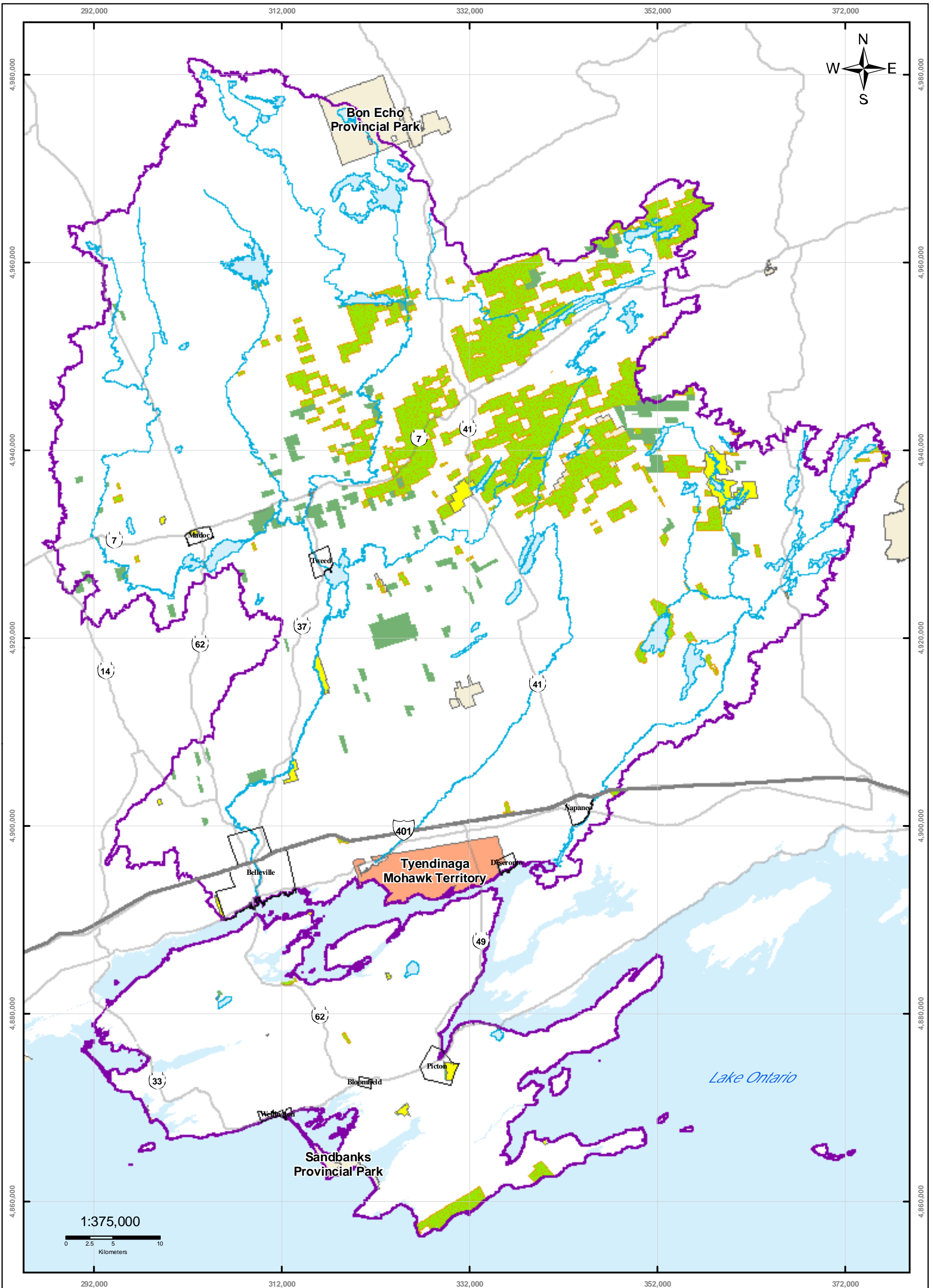
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Legend

- Highway 401
- Rivers
- Quinte Region
- - - Township Boundaries
- Highways
- Lakes
- - - County Boundaries

Map 2.18

Municipal Boundaries & Population Density



- Legend*
- Highway 401
 - Lakes
 - Tyendinaga Mohawk Territory
 - Crown Land
 - Highways
 - Populated Areas
 - Conservation Areas
 - Provincial Parks
 - Rivers
 - QC Region
 - Conservation Properties

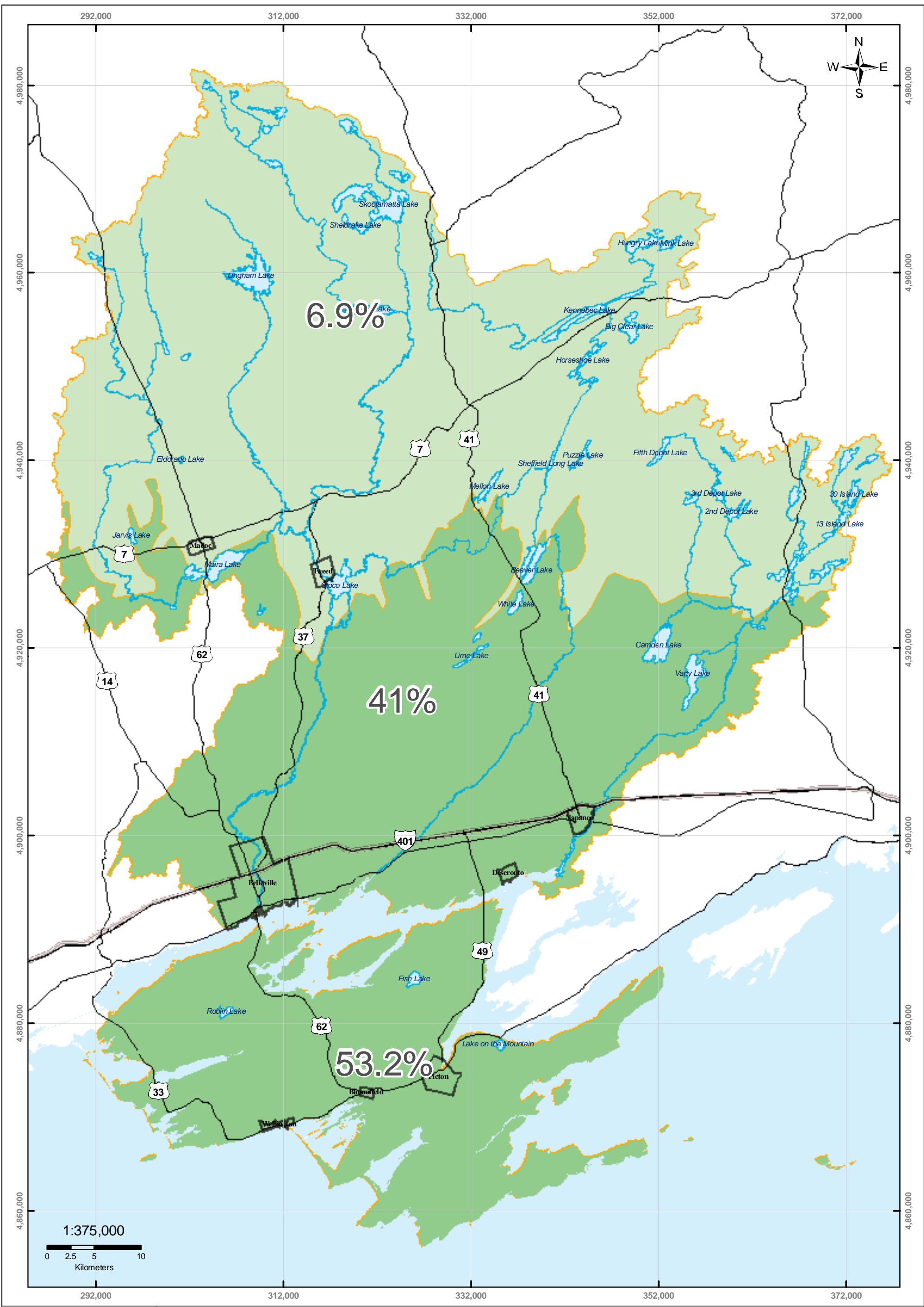
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Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Provincial Parks, Crown Land, Conservation Properties and Areas, Tyendinaga Mohawk Territory - Ministry of Natural Resources

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Map 2.19 Federal and Protected Lands



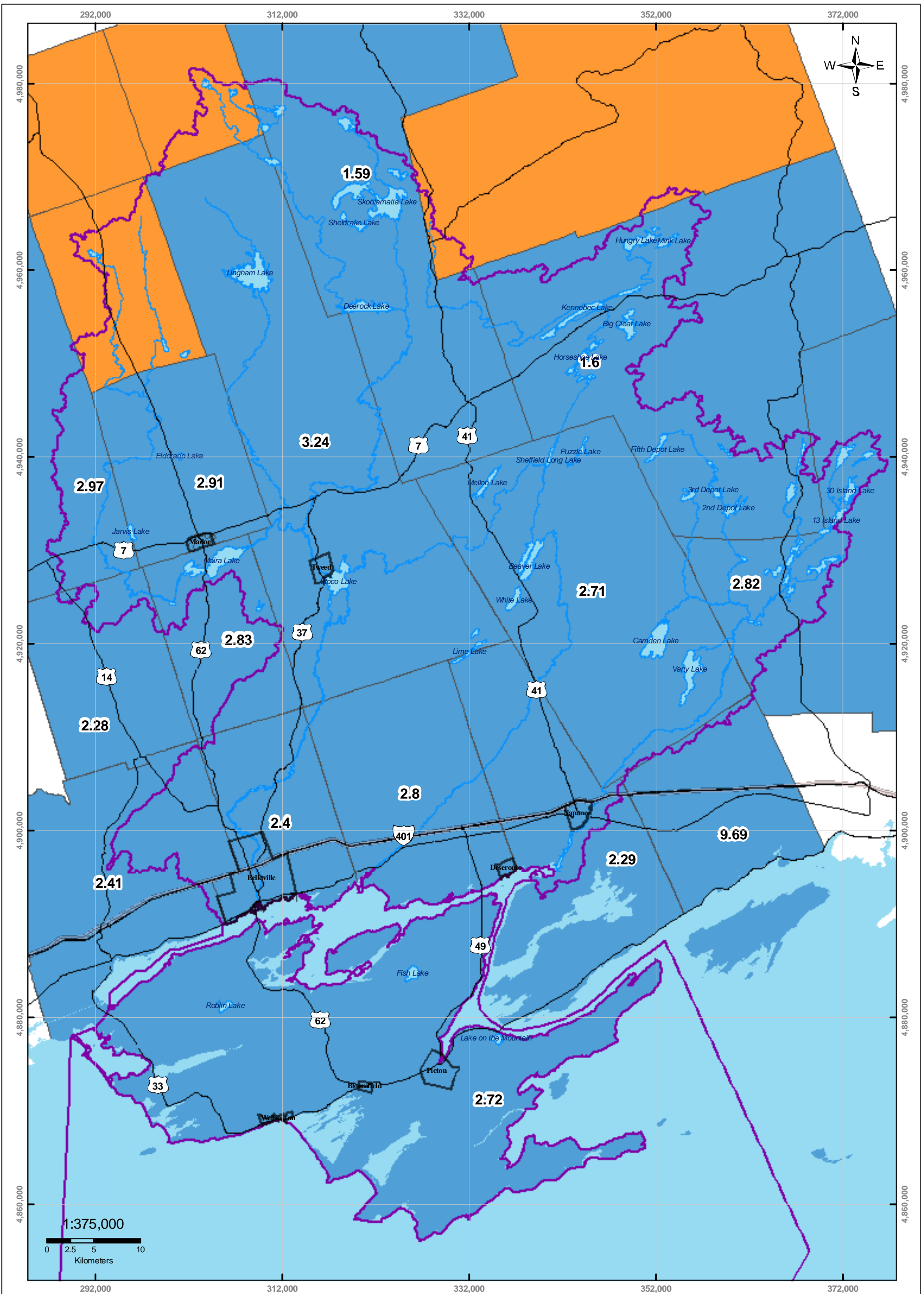
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 Digital Mapping Services:
 Base Map - Ontario Ministry of Natural Resources
 Agricultural Data - Statistics Canada/ Diton Consulting
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- Legend**
- Highway 401
 - Highways
 - Rivers
 - Lakes
 - Populated Areas
 - Precambrian Zone
 - Limestone Zone
 - Prince Edward County Peninsula

Map 2.20 Percent of Managed Land



Y:\SWP_Data_Mxd\SM7_AR\Report_Final_v1_2010\ARM\ap2_21_Density.mxd



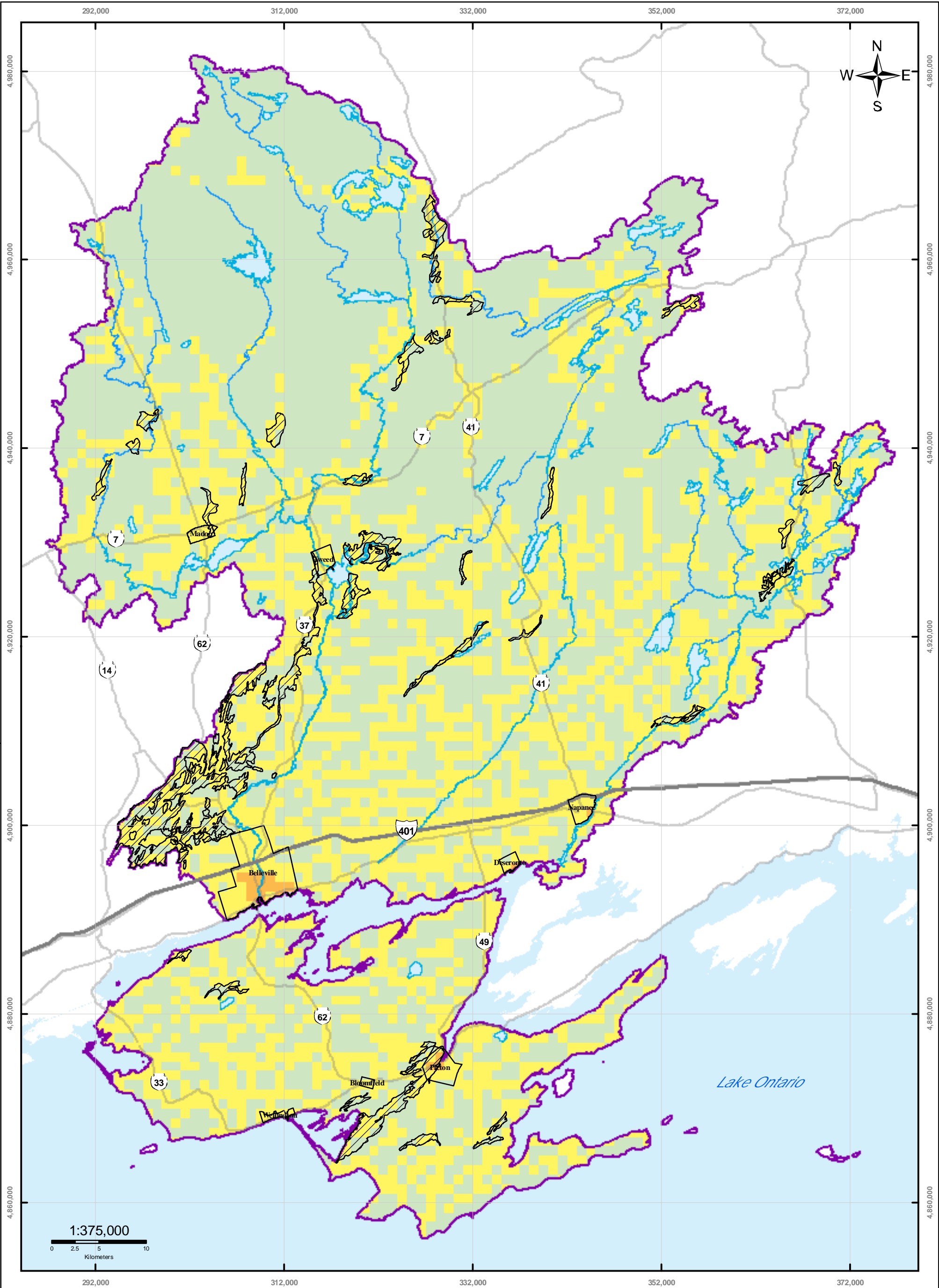
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 Digital Mapping Sources:
 Base Map - Ontario Ministry of Natural Resources
 Livestock Density - Derived from Statistics Canada data
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Legend

- Highway 401
- Highways
- Rivers
- Lakes
- Quinte Region
- Populated Areas

- Livestock Density
nutrient units/acre**
- 0.0 - 0.5
 - 0.6 - 1.0
 - 1.1 - 9.7

Map 2.21 Livestock Density



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 Digital Mapping Sources:
 Base Map - Ministry of Natural Resources
 Impervious Areas - Created using Ontario Road Network
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Legend

— Highway 401	— Rivers	□ Population Nodes	Impervious Surface (%)	■ 8 - <80%
— Highways	■ Lakes	□ Quinte Watershed Region	■ <1%	■ >80%
		▨ Significant Recharge Areas	■ 1 - <8%	

Map 2.22 Impervious Surfaces