

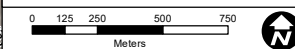
**Mississippi-Rideau
SOURCE PROTECTION REGION**

LEGEND

- Municipal Well
- Road
- Town of Kemptville Boundary
- Source Protection Area

**Location of
Kemptville Municipal
Groundwater Supply Wells**

Figure 5-5a



Projection: Universal Transverse Mercator, NAD83, Zone 18 North

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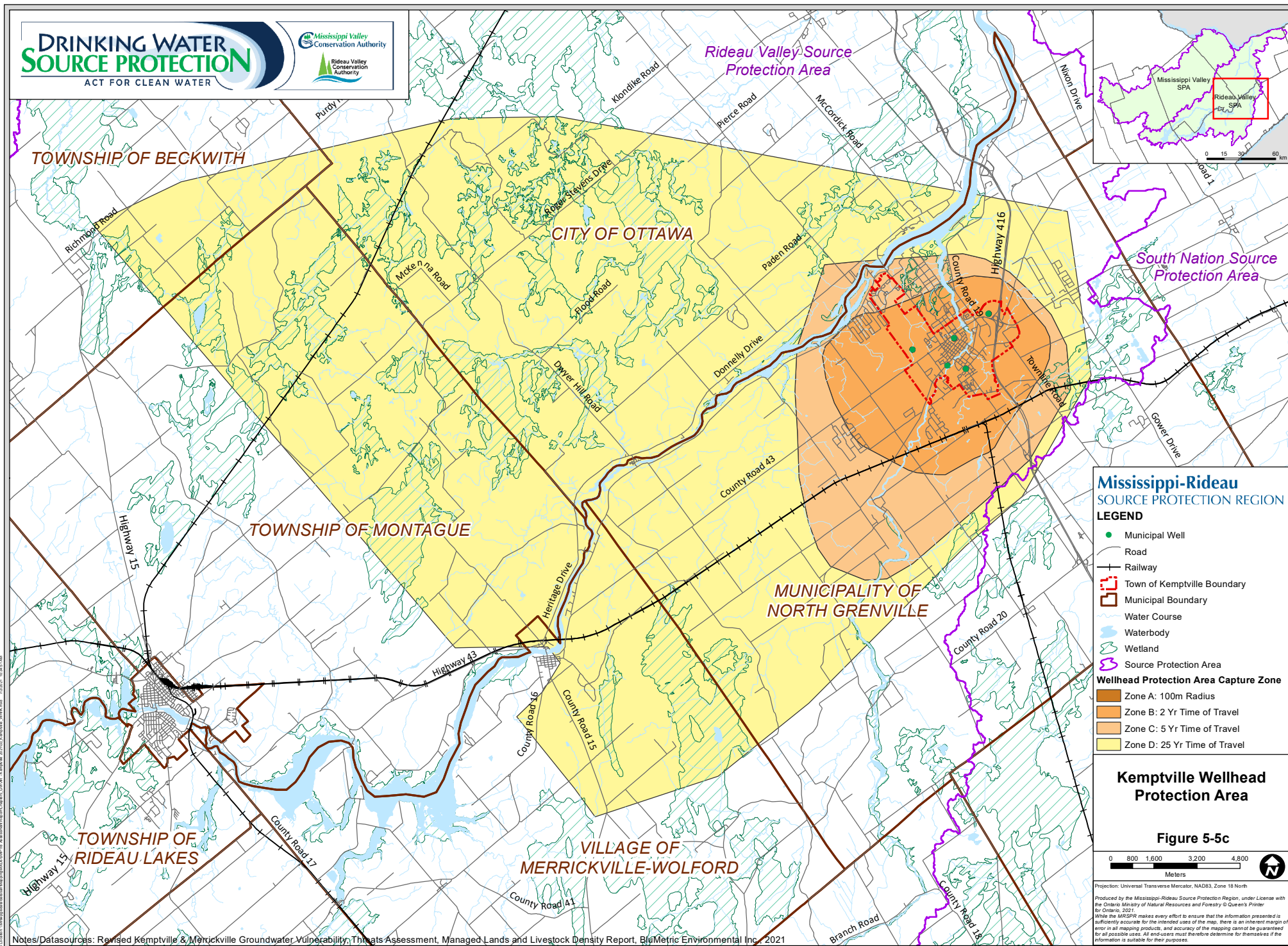


Projection: Universal Transverse Mercator, NAD83, Zone 18 North

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Notes/Datasources: Modified from Golder 2003a. This information is regional in nature and not intended for site-specific evaluations. The figure should be used only in conjunction with the accompanying report.



**Mississippi-Rideau
SOURCE PROTECTION REGION
LEGEND**

- Municipal Well
- Road
- Railway
- ▭ Town of Kemptville Boundary
- ▭ Municipal Boundary
- Water Course
- Waterbody
- Wetland
- Source Protection Area

Wellhead Protection Area Capture Zone

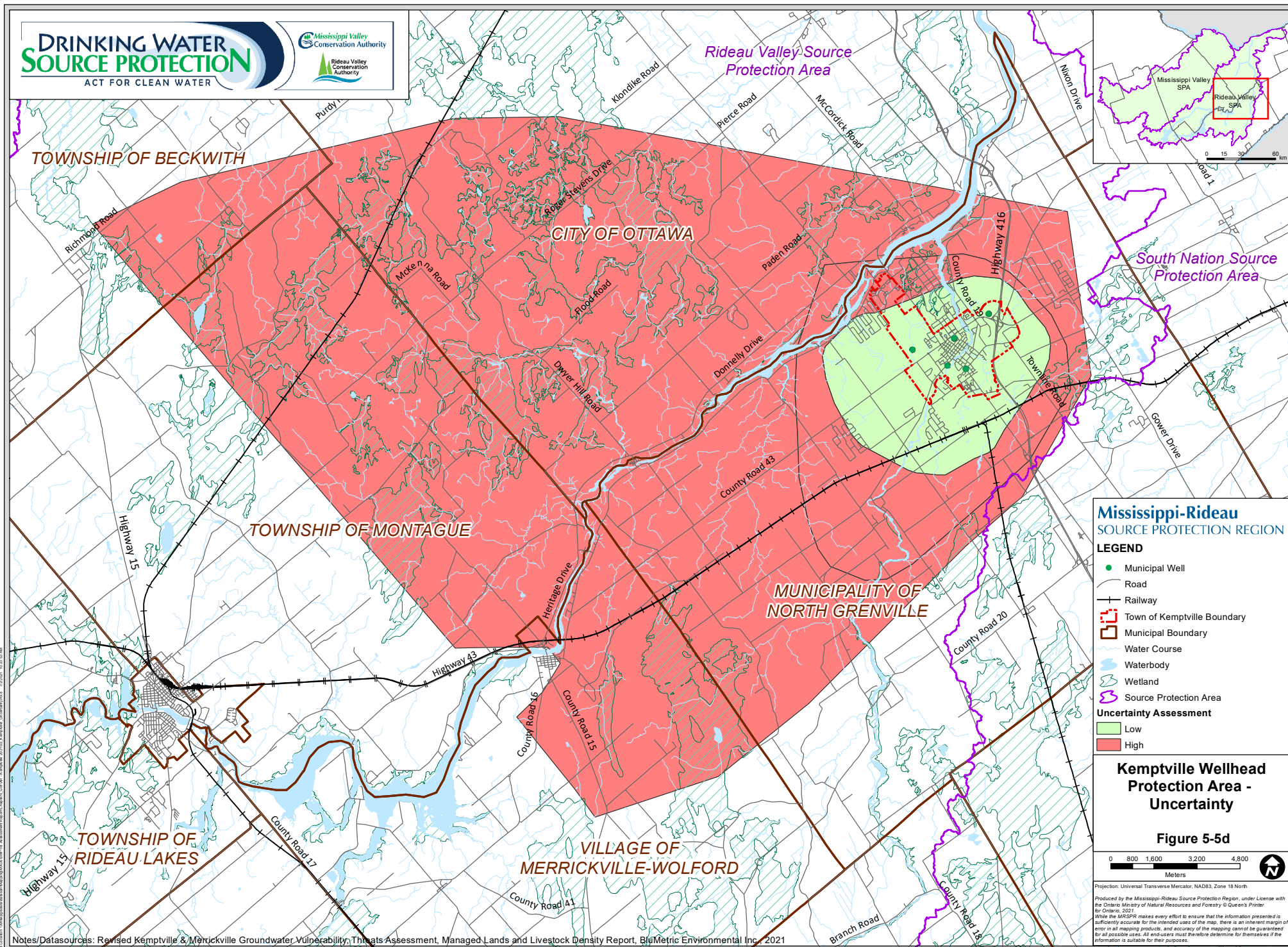
- Zone A: 100m Radius
- Zone B: 2 Yr Time of Travel
- Zone C: 5 Yr Time of Travel
- Zone D: 25 Yr Time of Travel

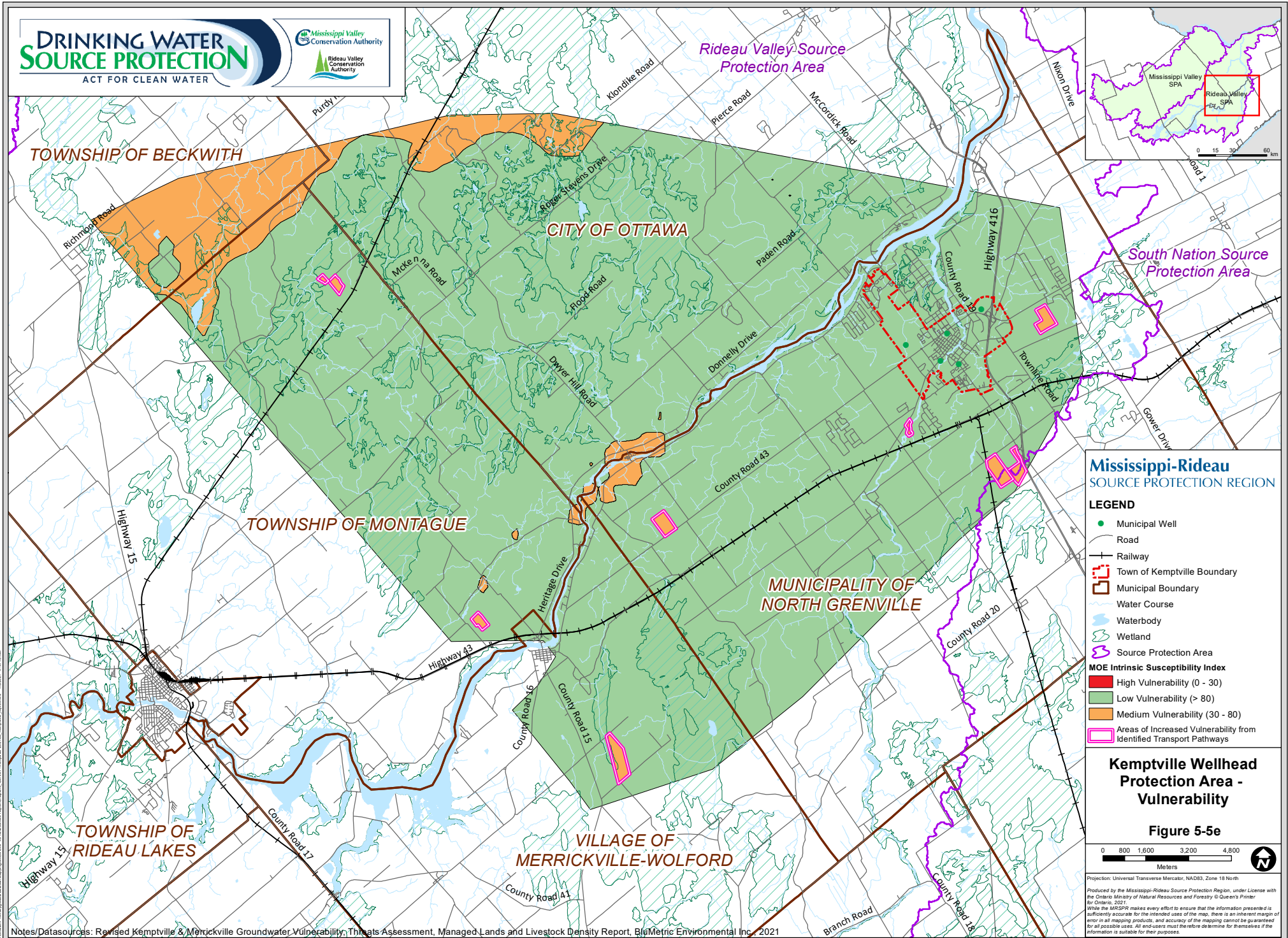
**Kemptville Wellhead
Protection Area**

Figure 5-5c



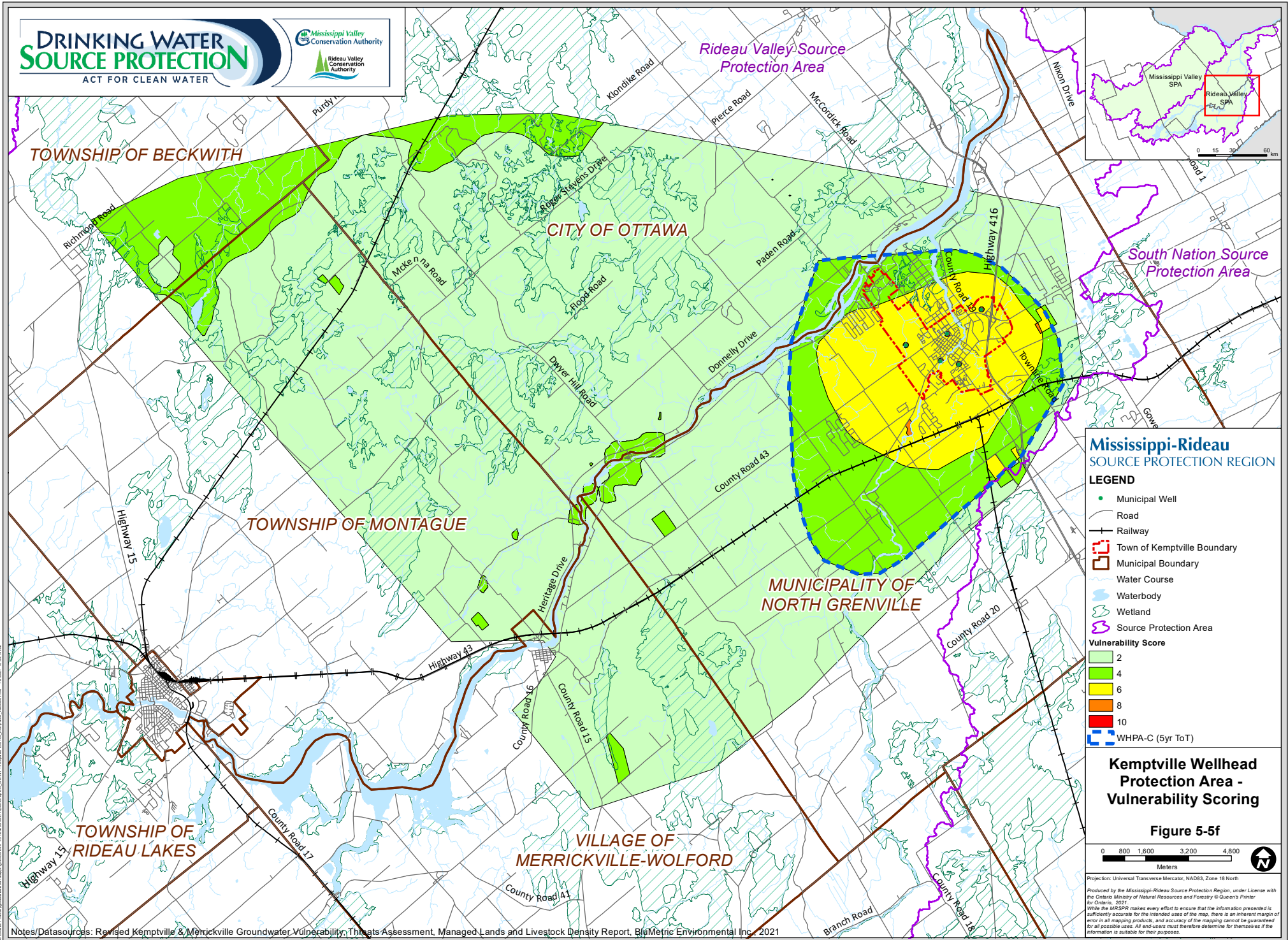
Projection: Universal Transverse Mercator, NAD83, Zone 18 North
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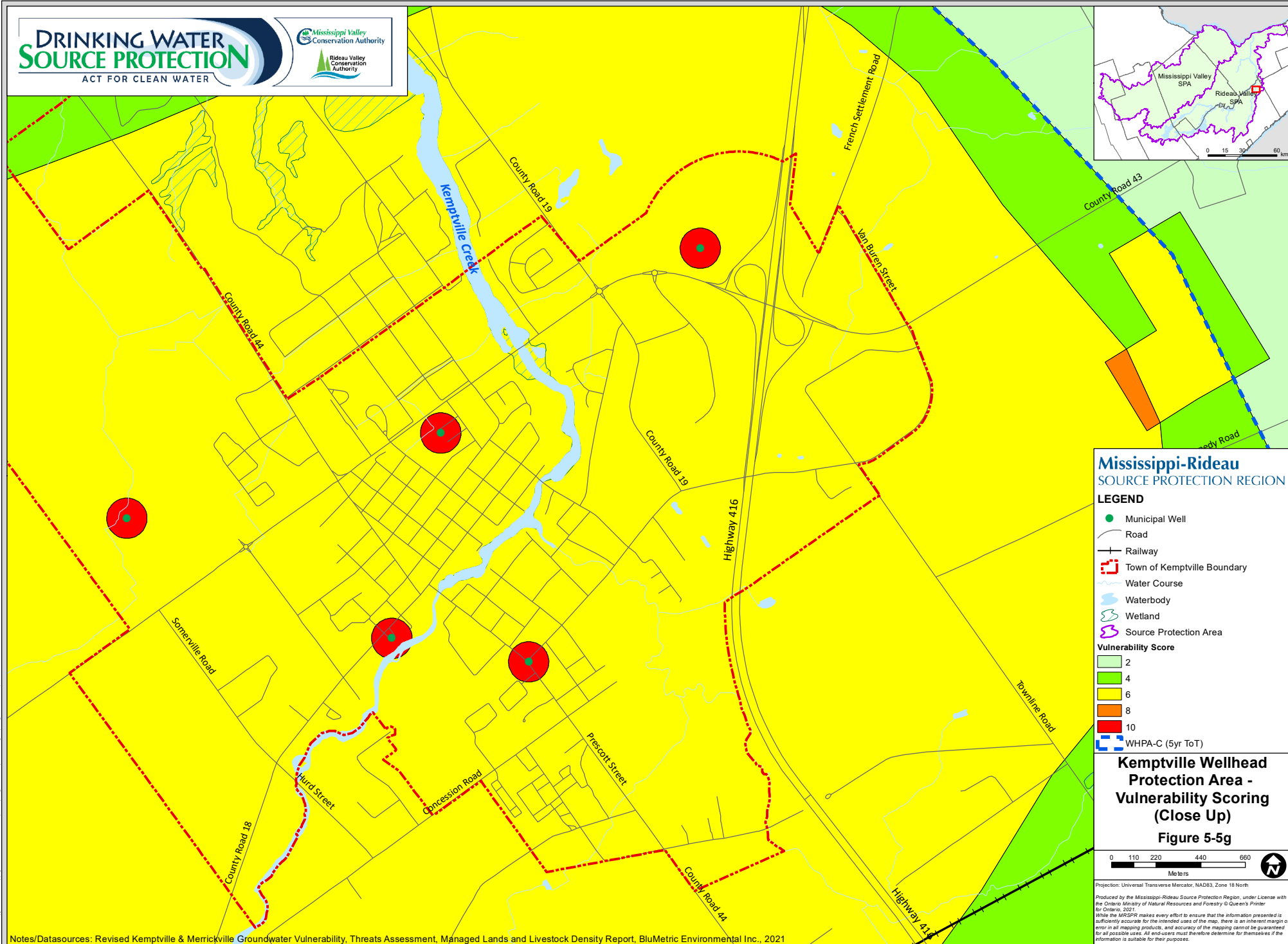




DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER





Mississippi-Rideau SOURCE PROTECTION REGION

LEGEND

- Municipal Well
- Road
- Railway
- Town of Kemptville Boundary
- Water Course
- Waterbody
- Wetland
- Source Protection Area
- Vulnerability Score
 - 2
 - 4
 - 6
 - 8
 - 10
- WHPA-C (5yr ToT)

Kemptville Wellhead Protection Area - Vulnerability Scoring (Close Up)

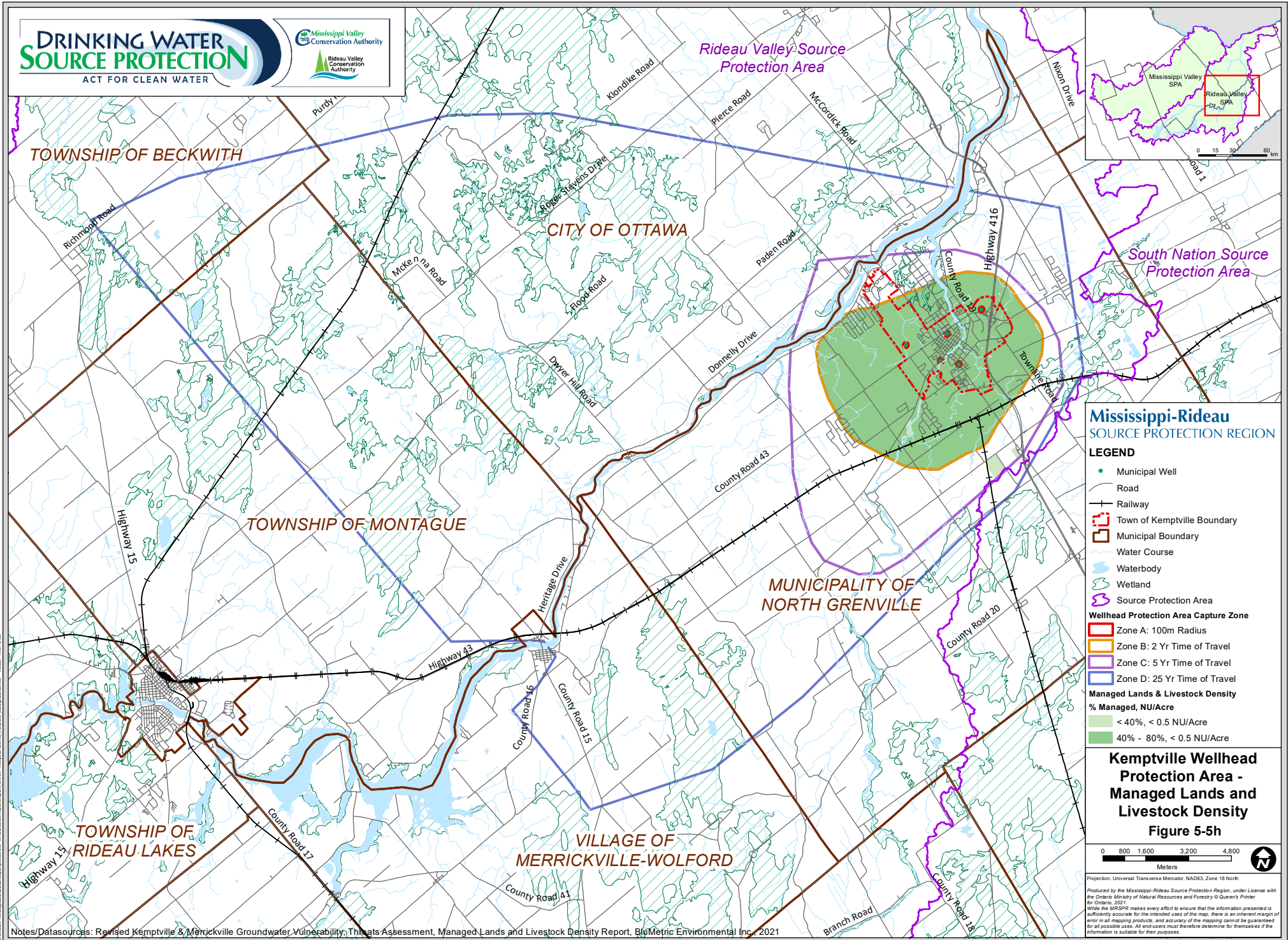
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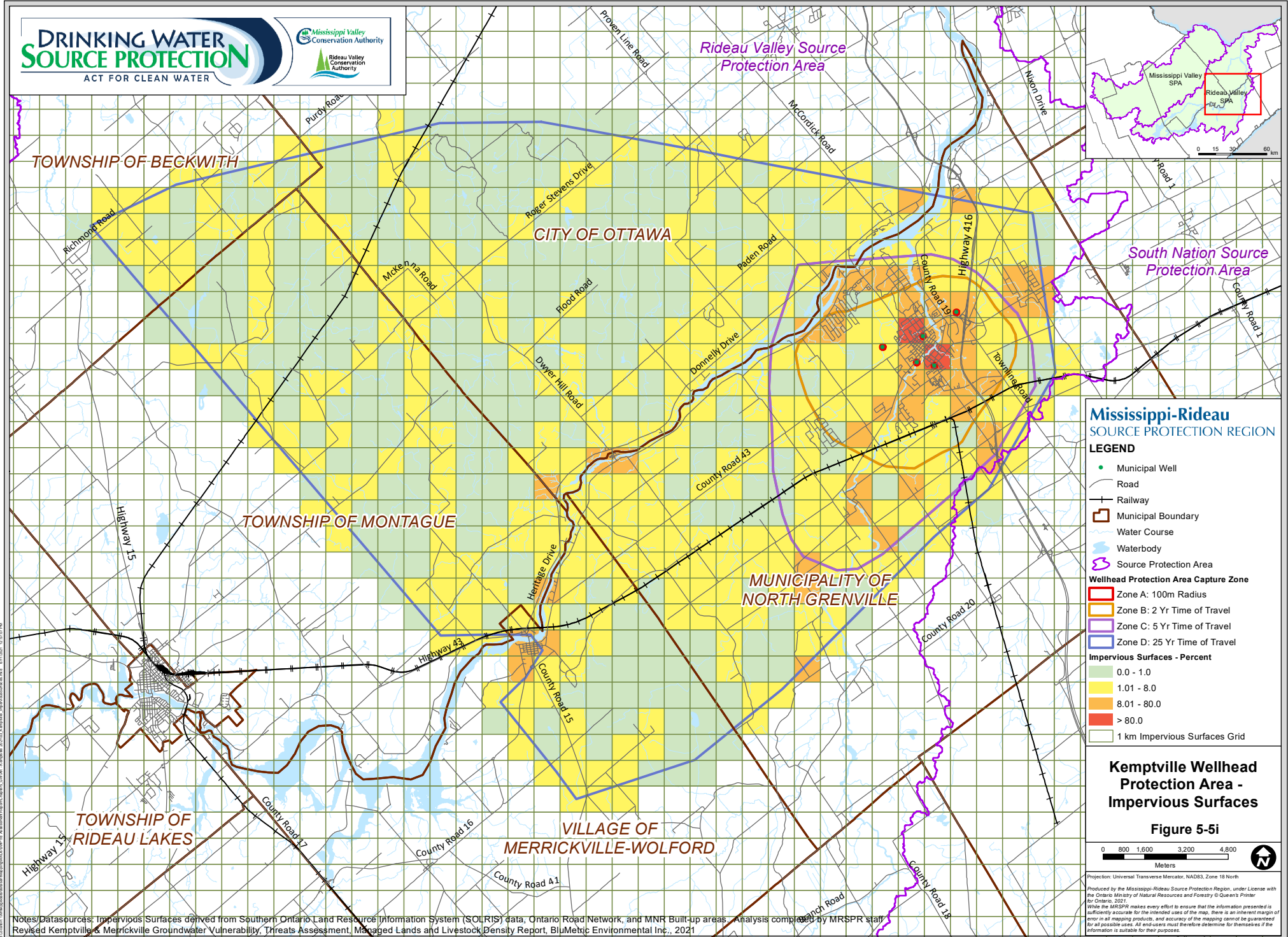


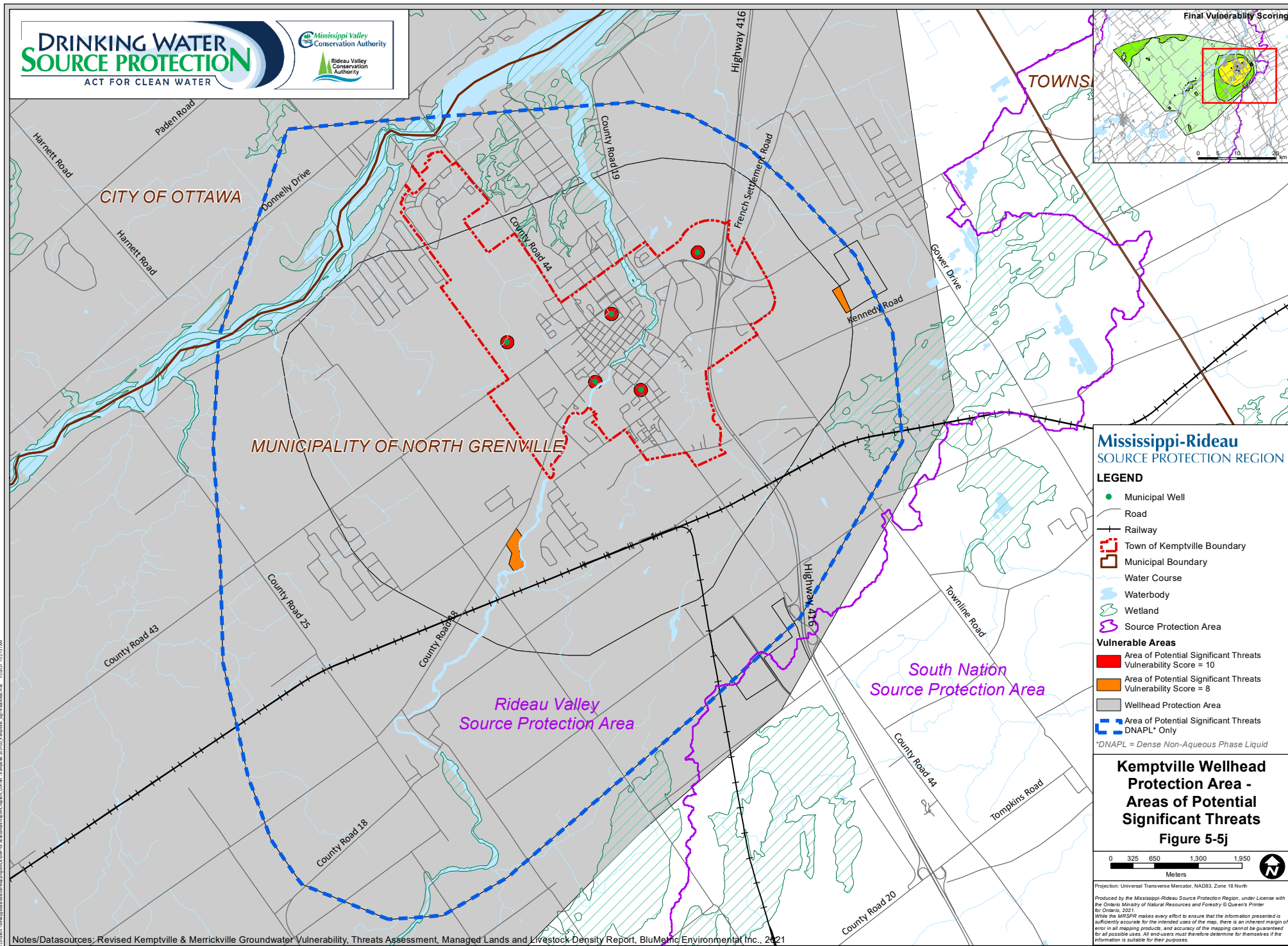
Projection: Universal Transverse Mercator, NAD83, Zone 18 North
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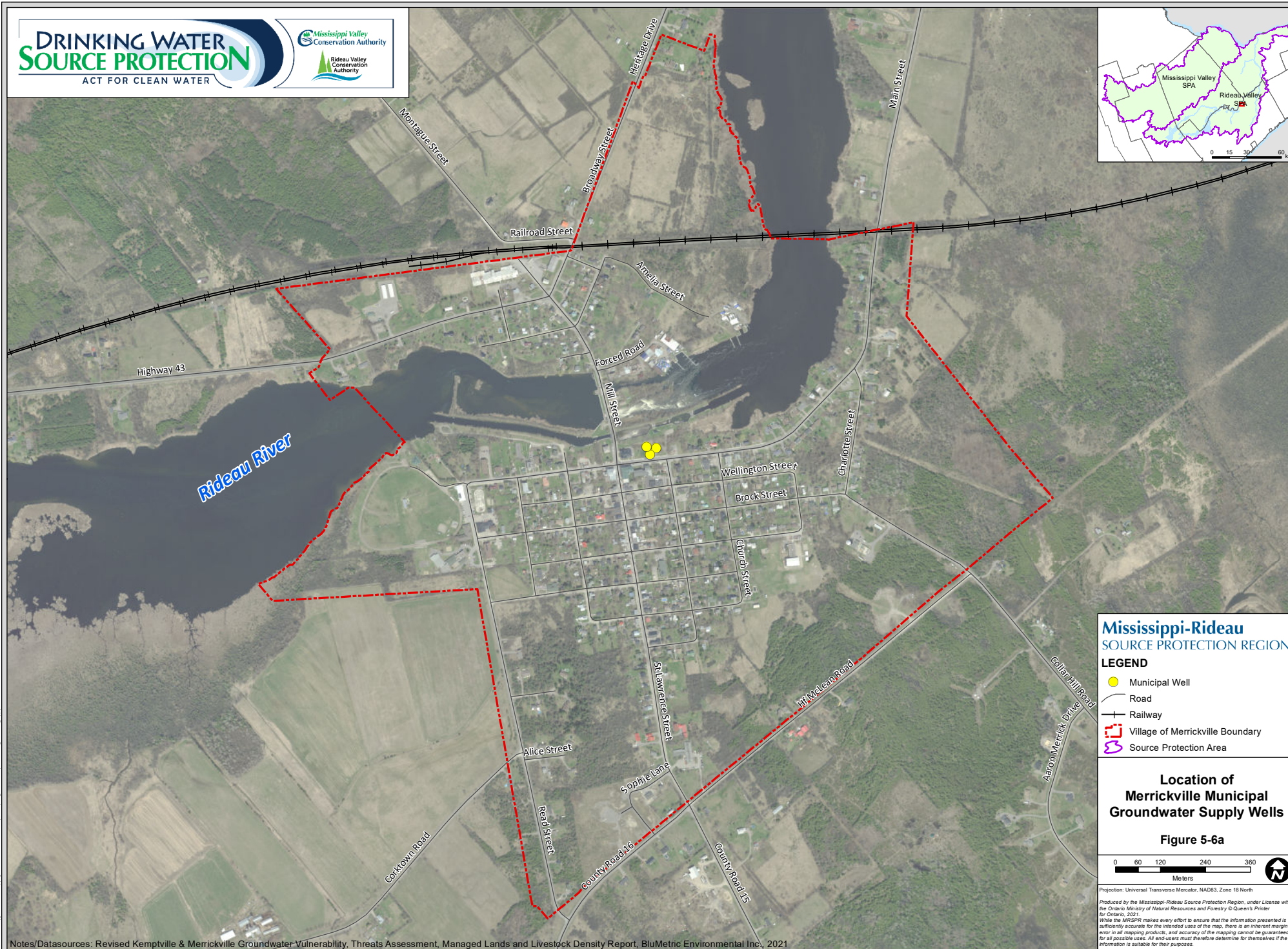
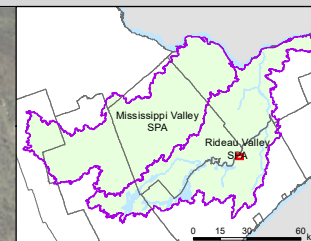
DRINKING WATER SOURCE PROTECTION

ACT FOR CLEAN WATER









**Mississippi-Rideau
SOURCE PROTECTION REGION**

LEGEND

- Municipal Well
- Road
- +— Railway
- - - Village of Merrickville Boundary
- Source Protection Area

**Location of
Merrickville Municipal
Groundwater Supply Wells**

Figure 5-6a



Projection: Universal Transverse Mercator, NAD83, Zone 18 North
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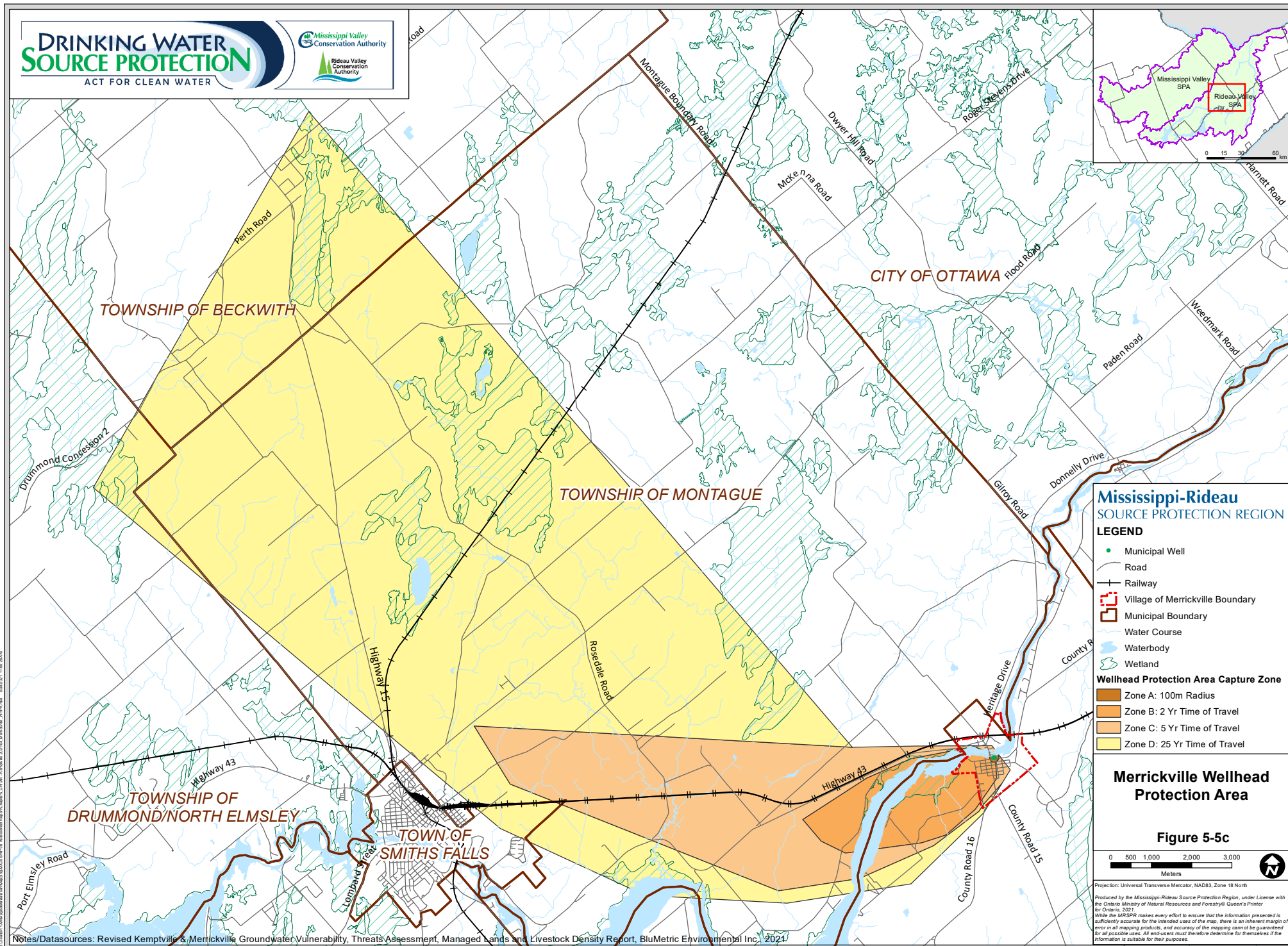


Projection: Universal Transverse Mercator, NAD83, Zone 18 North

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**Mississippi-Rideau
SOURCE PROTECTION REGION**

LEGEND

- Municipal Well
- Road
- Railway
- ▭ Village of Merrickville Boundary
- ▭ Municipal Boundary
- Water Course
- Waterbody
- Wetland

Wellhead Protection Area Capture Zone

- Zone A: 100m Radius
- Zone B: 2 Yr Time of Travel
- Zone C: 5 Yr Time of Travel
- Zone D: 25 Yr Time of Travel

**Merrickville Wellhead
Protection Area**

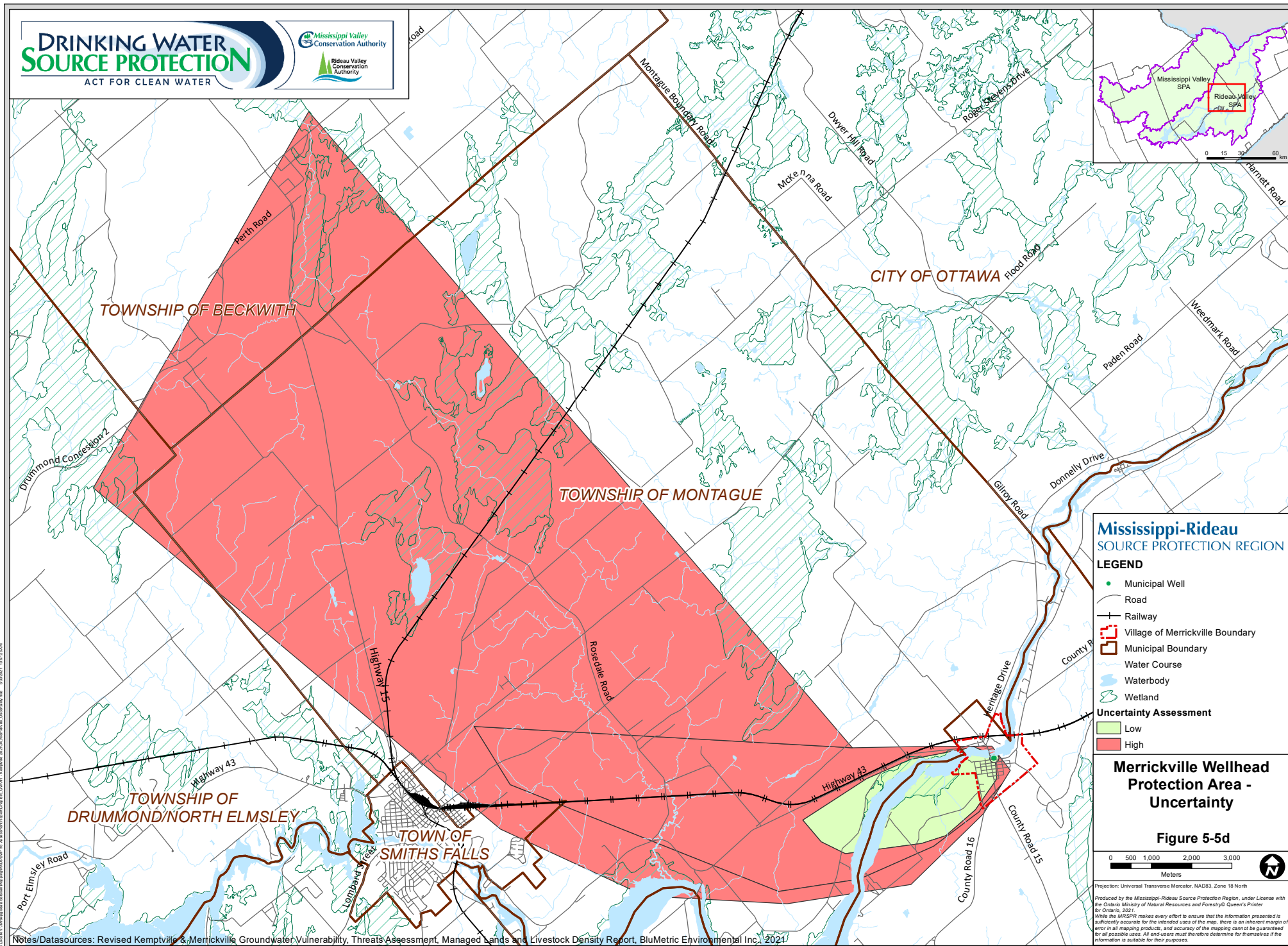
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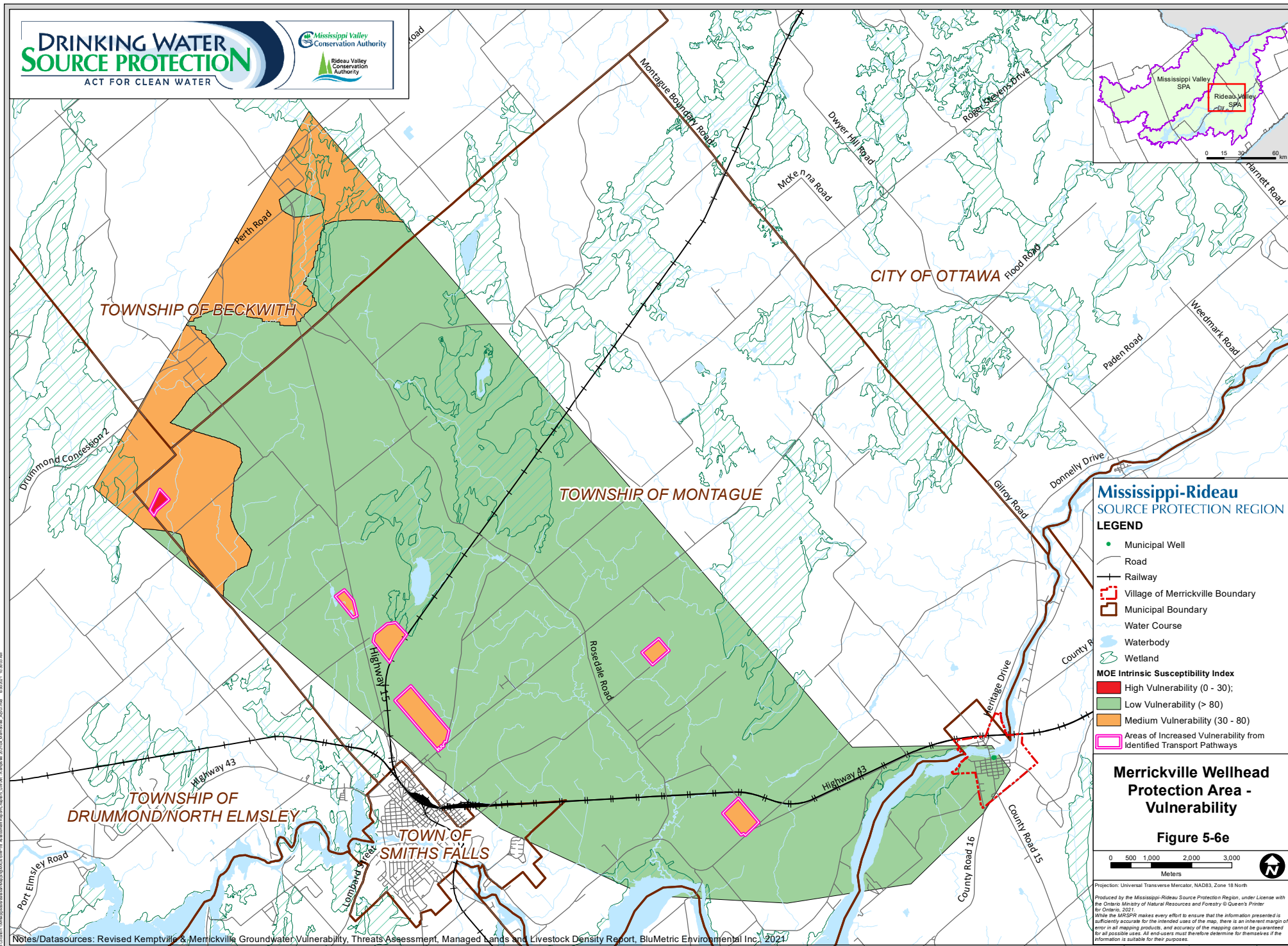
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Meters

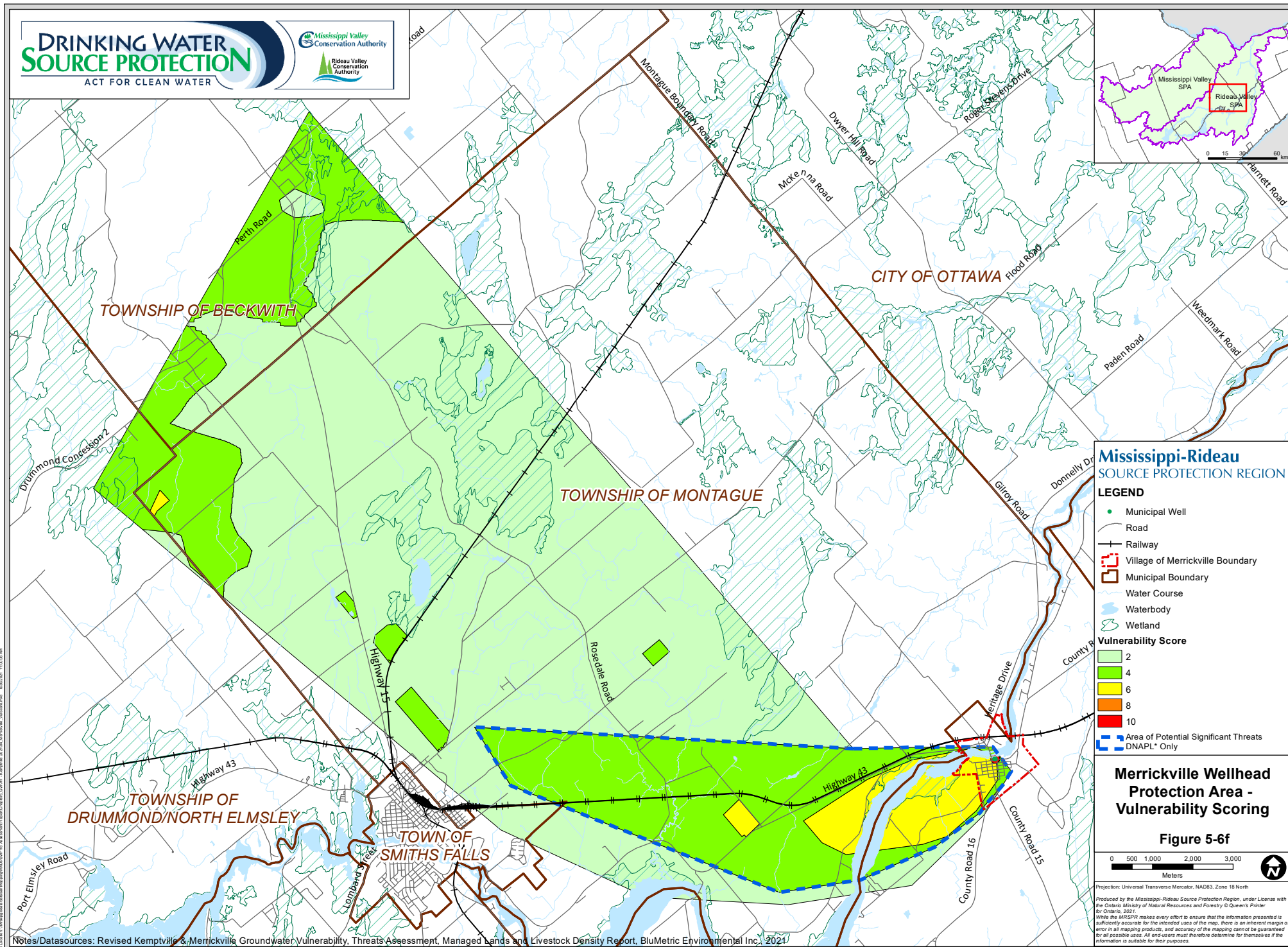
Projection: Universal Transverse Mercator, NAD83, Zone 18 North

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**Mississippi-Rideau
SOURCE PROTECTION REGION**

LEGEND

- Municipal Well
- Road
- Railway
- ▭ Village of Merrickville Boundary
- ▭ Municipal Boundary
- Water Course
- Waterbody
- Wetland
- Vulnerability Score**
- 2
- 4
- 6
- 8
- 10
- ▭ Area of Potential Significant Threats
- ▭ DNAPL* Only

**Merrickville Wellhead
Protection Area -
Vulnerability Scoring**

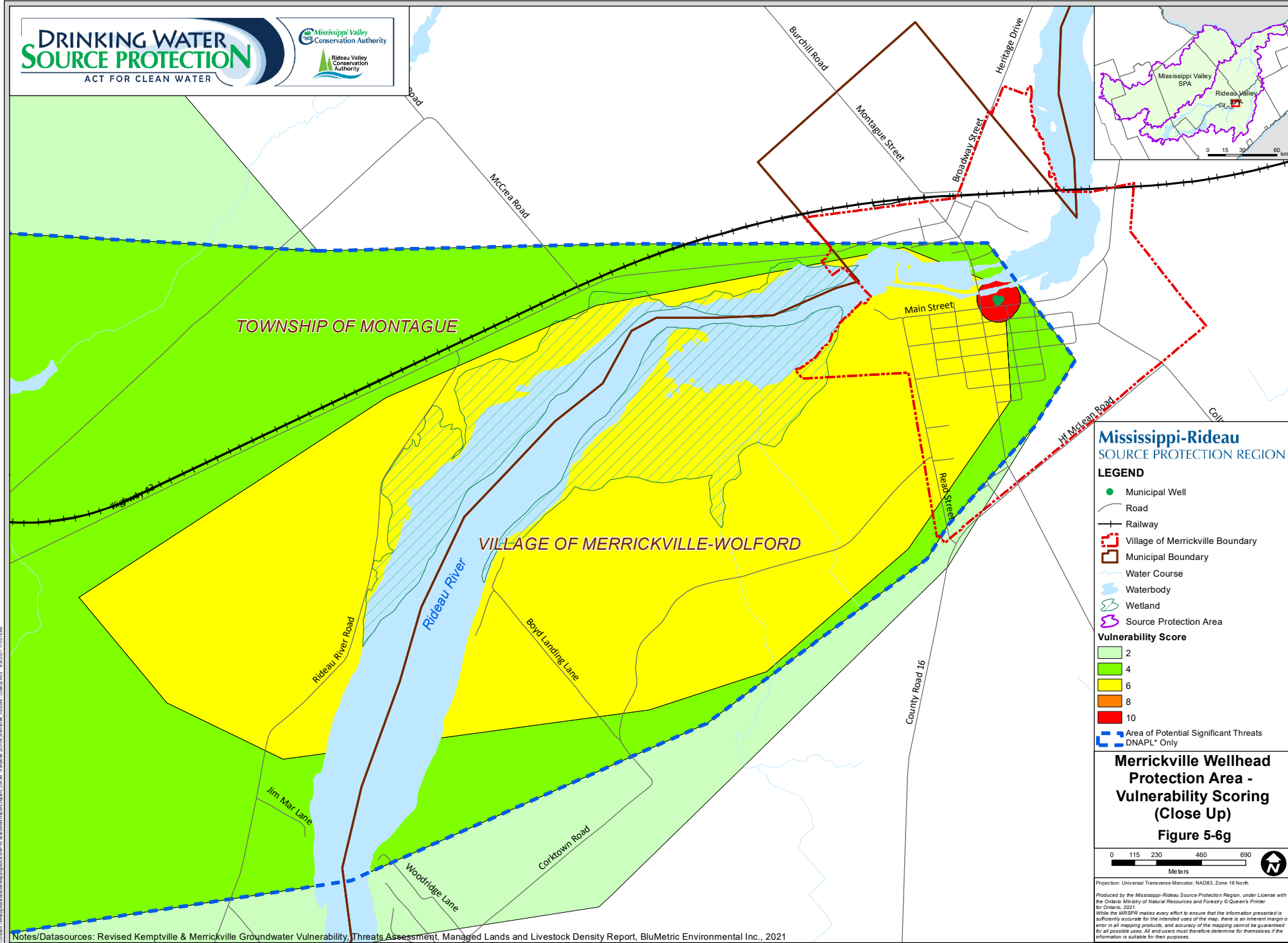
Figure 5-6f

0 500 1,000 2,000 3,000
Meters

Projection: Universal Transverse Mercator, NAD83, Zone 18 North

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**Mississippi-Rideau
SOURCE PROTECTION REGION**

LEGEND

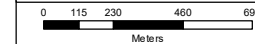
- Municipal Well
- Road
- +— Railway
- - - Village of Merrickville Boundary
- Municipal Boundary
- Water Course
- Waterbody
- Wetland
- Source Protection Area

Vulnerability Score

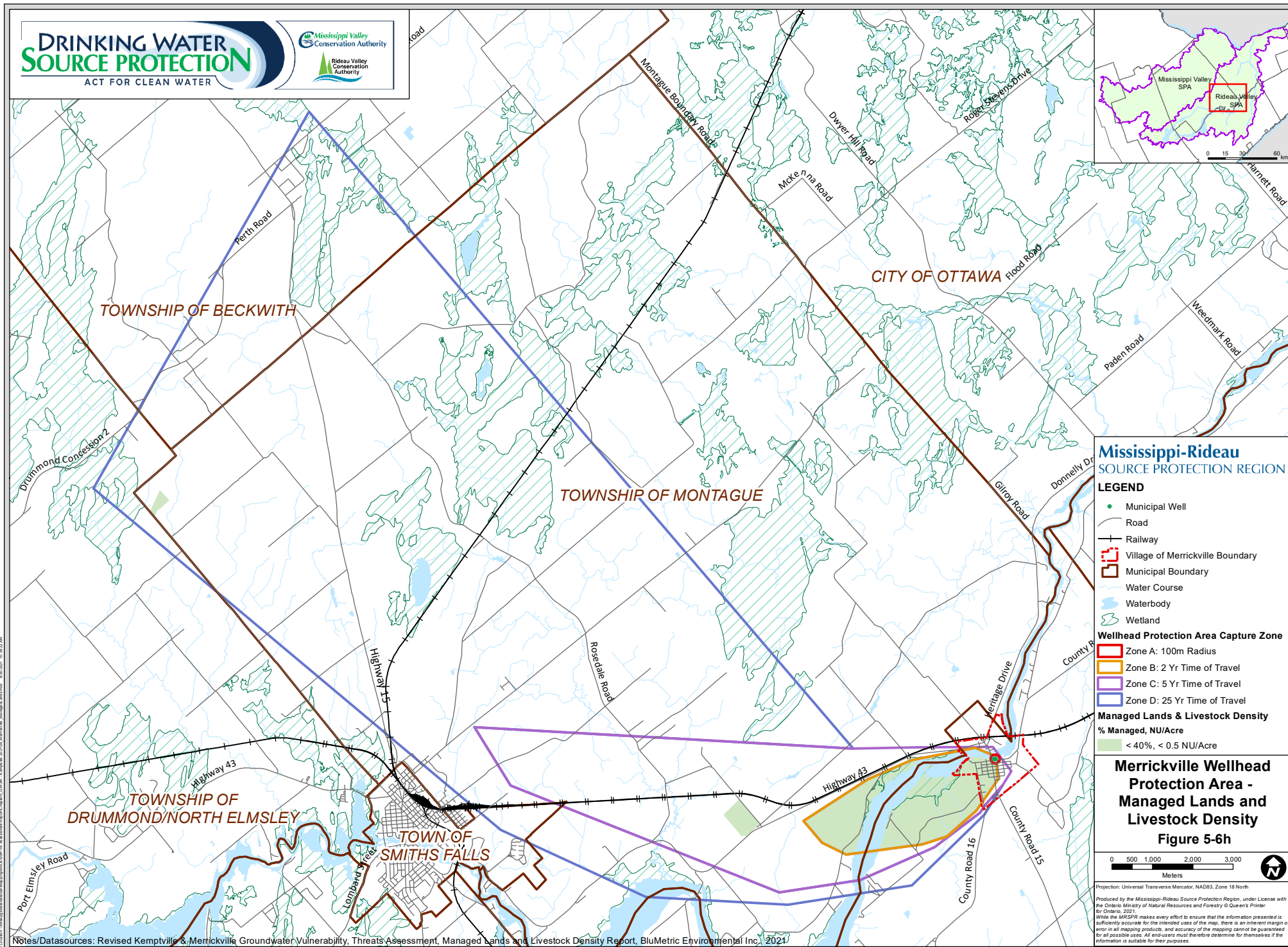
- 2
- 4
- 6
- 8
- 10

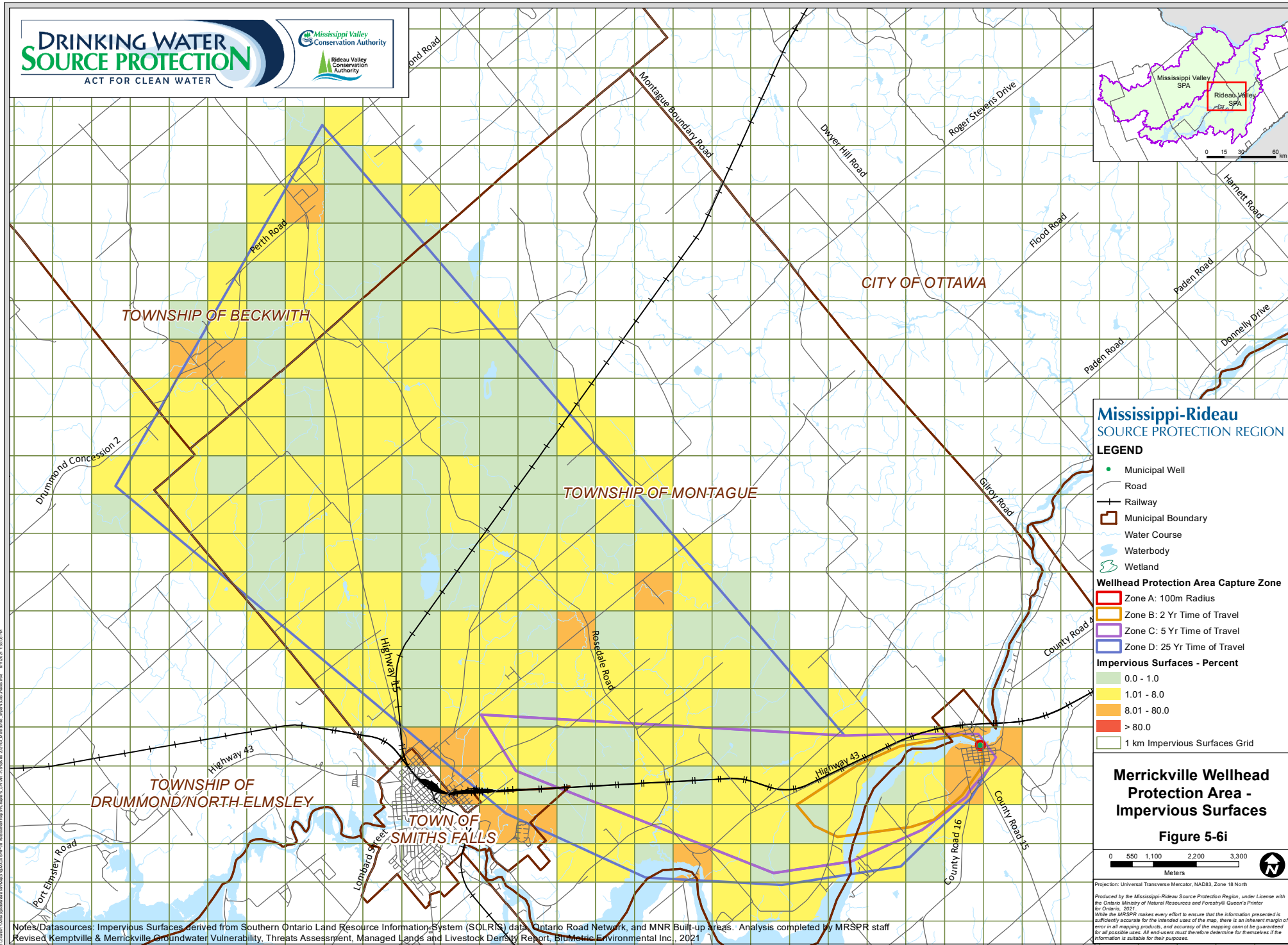
- - - Area of Potential Significant Threats
DNAPL* Only

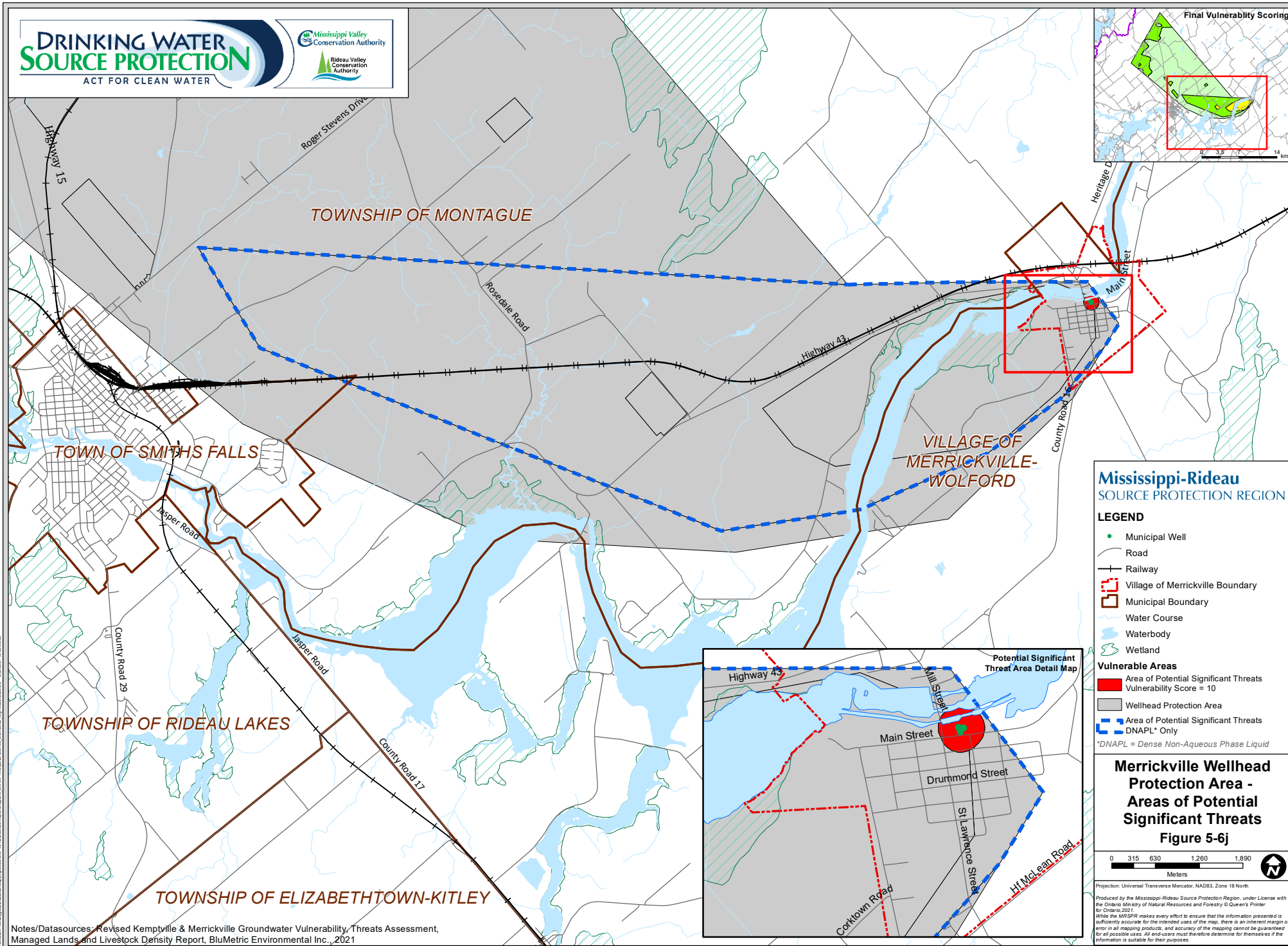
**Merrickville Wellhead
Protection Area -
Vulnerability Scoring
(Close Up)
Figure 5-6g**

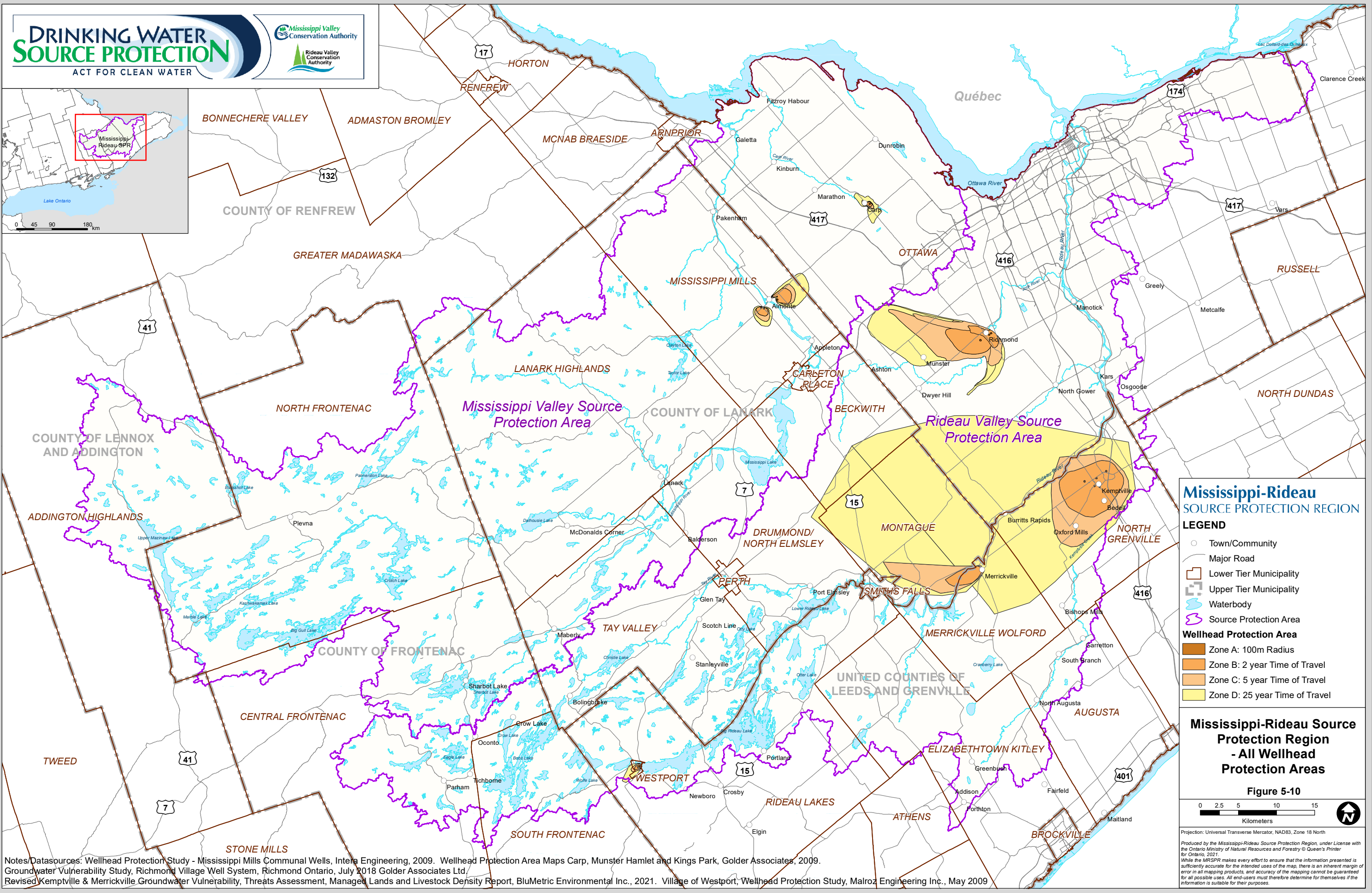


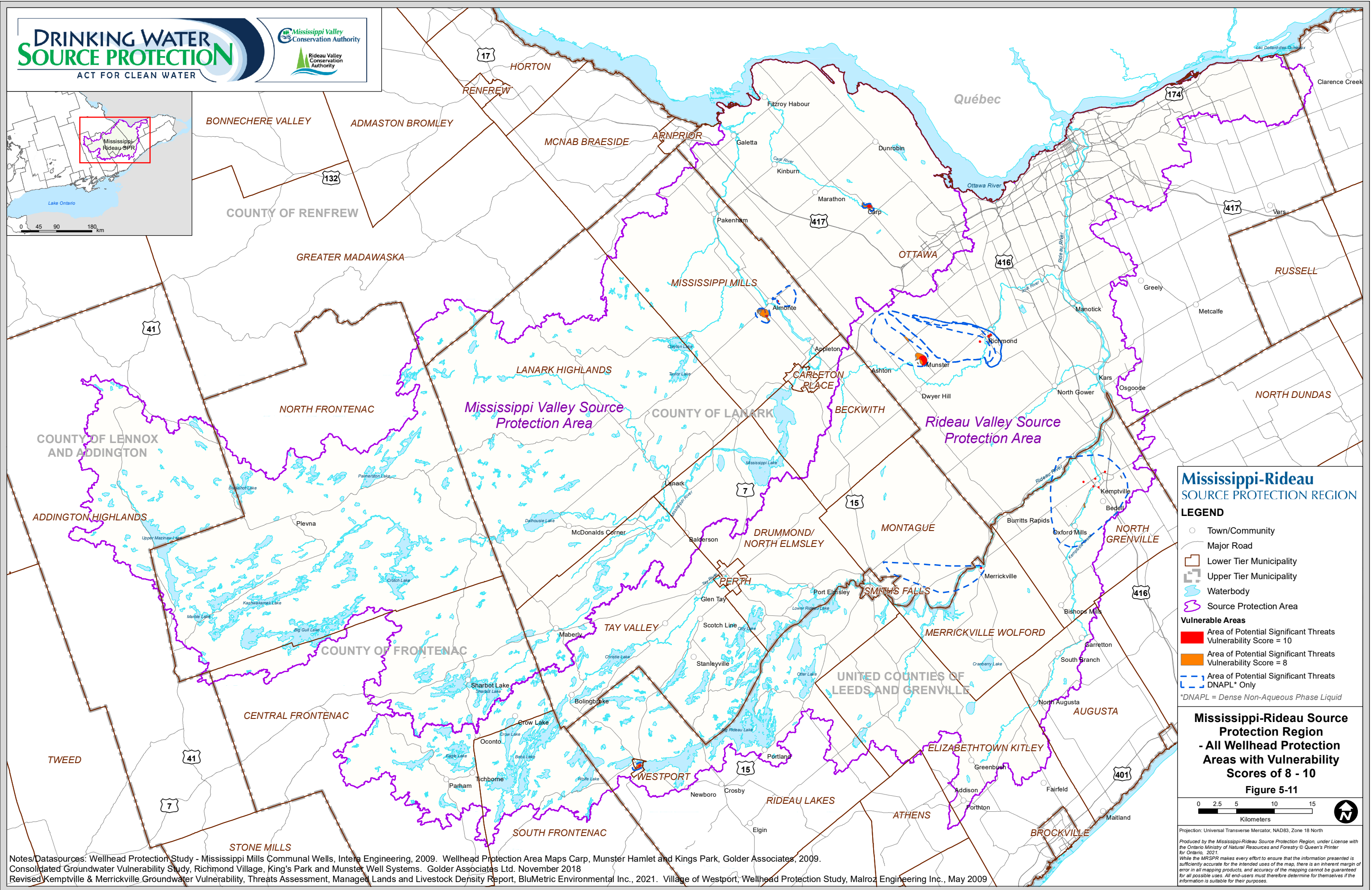
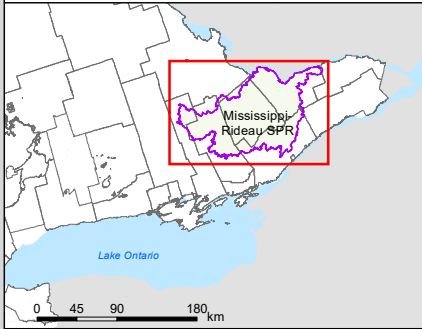
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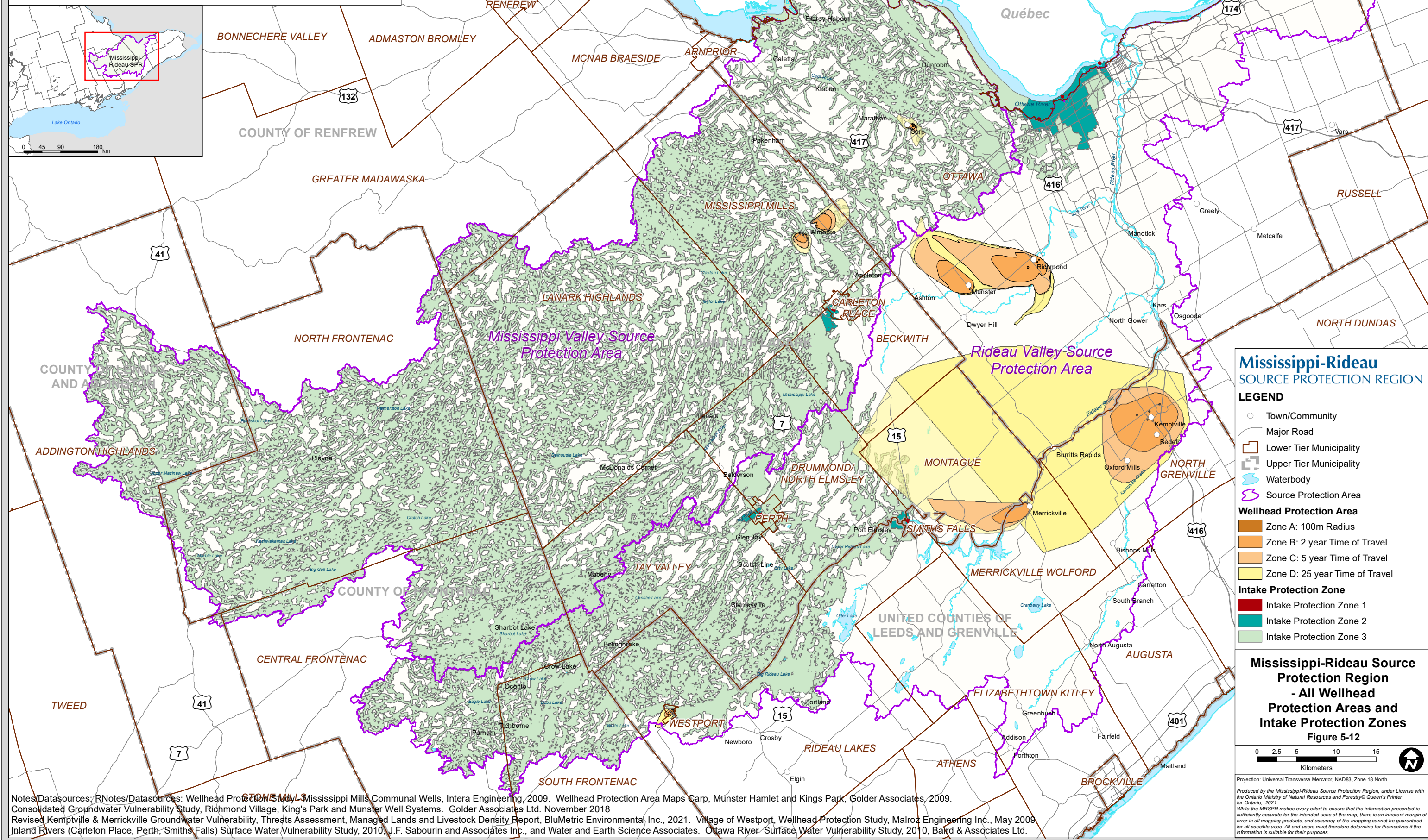








Notes/Datasources: Wellhead Protection Study - Mississippi Mills Communal Wells, Intera Engineering, 2009. Wellhead Protection Area Maps Carp, Munster Hamlet and Kings Park, Golder Associates, 2009. Consolidated Groundwater Vulnerability Study, Richmond Village, King's Park and Munster Well Systems. Golder Associates Ltd. November 2018 Revised Kemptville & Merrickville Groundwater Vulnerability, Threats Assessment, Managed Lands and Livestock Density Report, BluMetric Environmental Inc., 2021. Village of Westport, Wellhead Protection Study, Malroz Engineering Inc., May 2009



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Revised Kemptville & Merrickville Groundwater Vulnerability, Threats Assessment, Managed Lands and Livestock Density Report, BluMetric Environmental Inc., 2021. Village of Westport, Wellhead Protection Study, Malroz Engineering Inc., May 2009
Inland Rivers (Carleton Place, Perth, Smiths Falls) Surface Water Vulnerability Study, 2010, J.F. Sabourin and Associates Inc., and Water and Earth Science Associates. Ottawa River Surface Water Vulnerability Study, 2010, Baird & Associates Ltd.