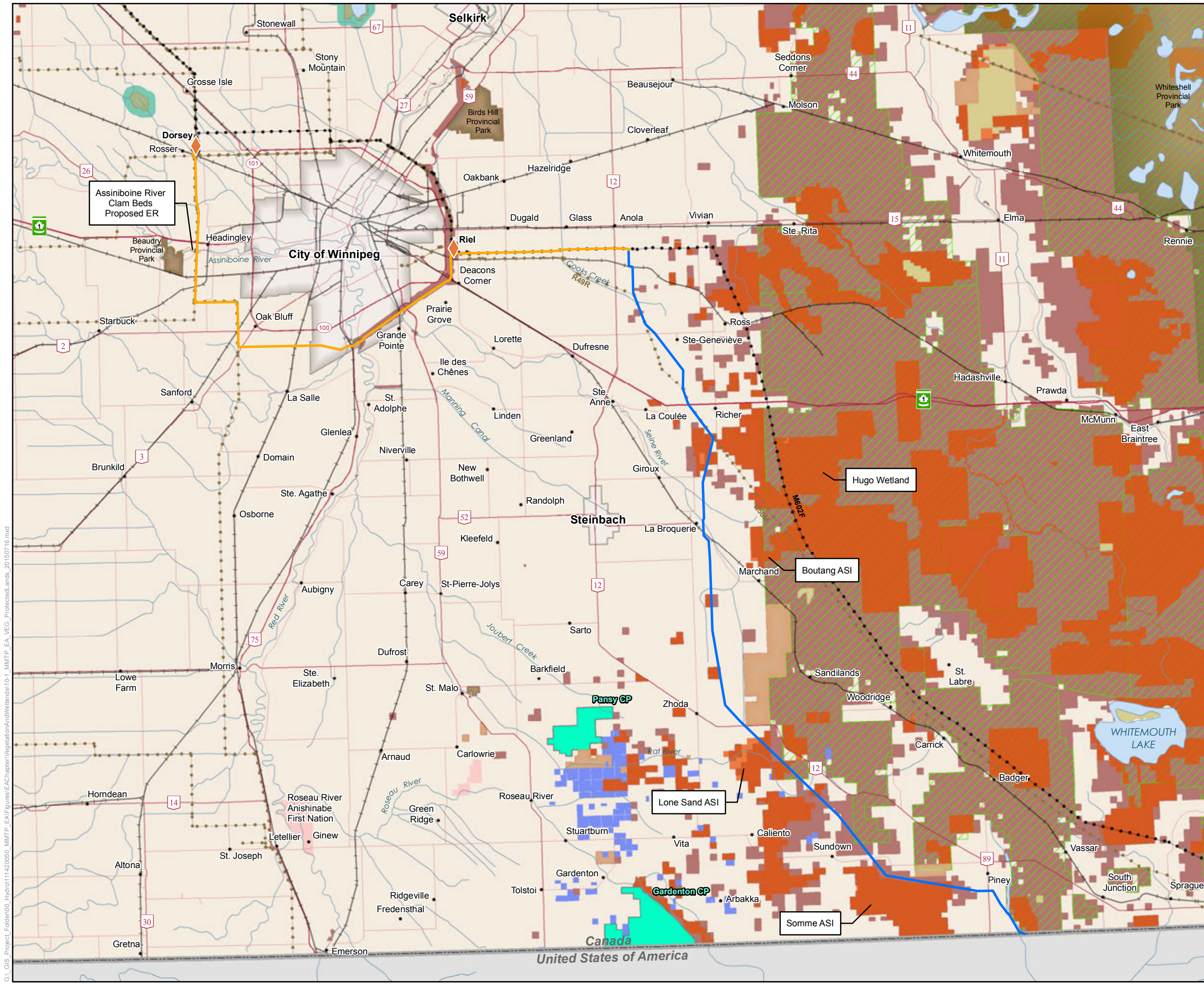


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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Designated and Protected Lands

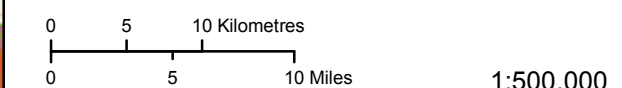
- First Nation Lands
- Ecological Reserve
- Wildlife Management Area
- Provincial Park
- Privately Owned Tall Grass
- CDC Important Bird Areas
- Community Pastures
- Candidate Protected Areas¹
- Provincial Forest
- Manitoba Crown Lands

Landbase

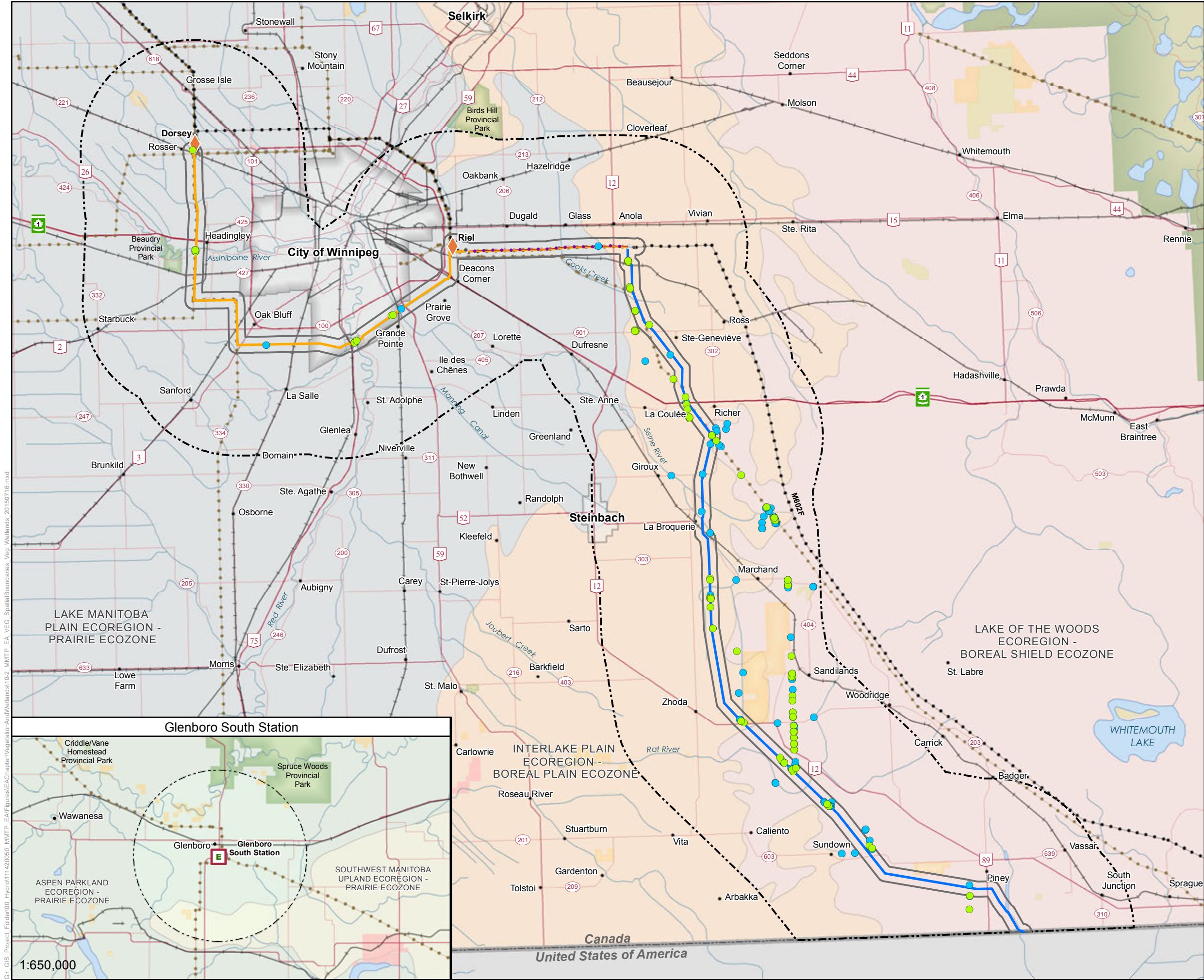
- Community
- Railway
- Trans Canada
- Provincial Highway
- Provincial Road
- City

Source:
1. Candidate Protected Areas, 2013, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015



Designated Lands and Protected Areas



Manitoba-Minnesota Transmission Project

Project Infrastructure

- Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)
- M602F Modification (Salvage)
- M602F Modification (New)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Survey Features

- Rare Plant Transect Survey Site
- Wetland Survey Site

Assessment Area

- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Ecoregion - Ecozone

- Aspen Parkland Ecoregion - Prairie Ecozone
- Interlake Plain Ecoregion - Boreal Plain Ecozone
- Lake Manitoba Plain Ecoregion - Prairie Ecozone
- Lake of the Woods Ecoregion - Boreal Shield Ecozone
- Southwest Manitoba Upland Ecoregion - Prairie Ecozone

Landbase

- Community
- Railway
- Trans Canada
- Provincial Highway
- Provincial Road
- City
- First Nation Lands
- Ecological Reserve
- Wildlife Management Area
- Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

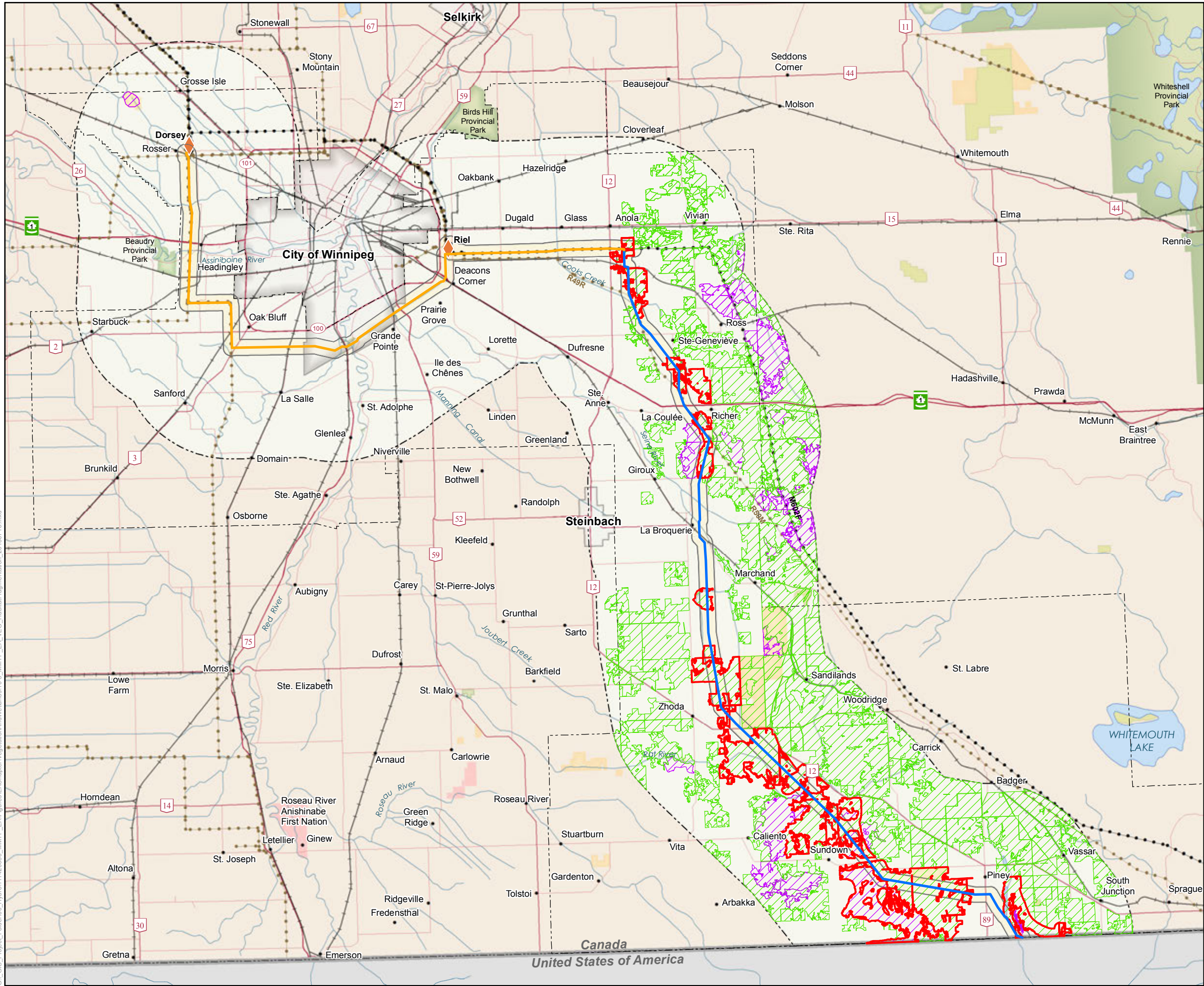


0 5 10 Kilometres
0 5 10 Miles

1:500,000

Project Components for Vegetation and Wetlands

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Intact Patches >200 ha of Native Upland Vegetation and Wetlands in the RAA¹

- Native Upland Vegetation
- Wetland
- Patches Intersected by the PDA

Assessment Area

- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- | | |
|----------------------|--------------------------|
| ● Community | □ Rural Municipality |
| Trans Canada Highway | Ecological Reserve |
| Provincial Highway | Wildlife Management Area |
| Provincial Road | Provincial Park |
| City / Town | Watercourse |
| First Nation Lands | Waterbody |

Source:
1. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

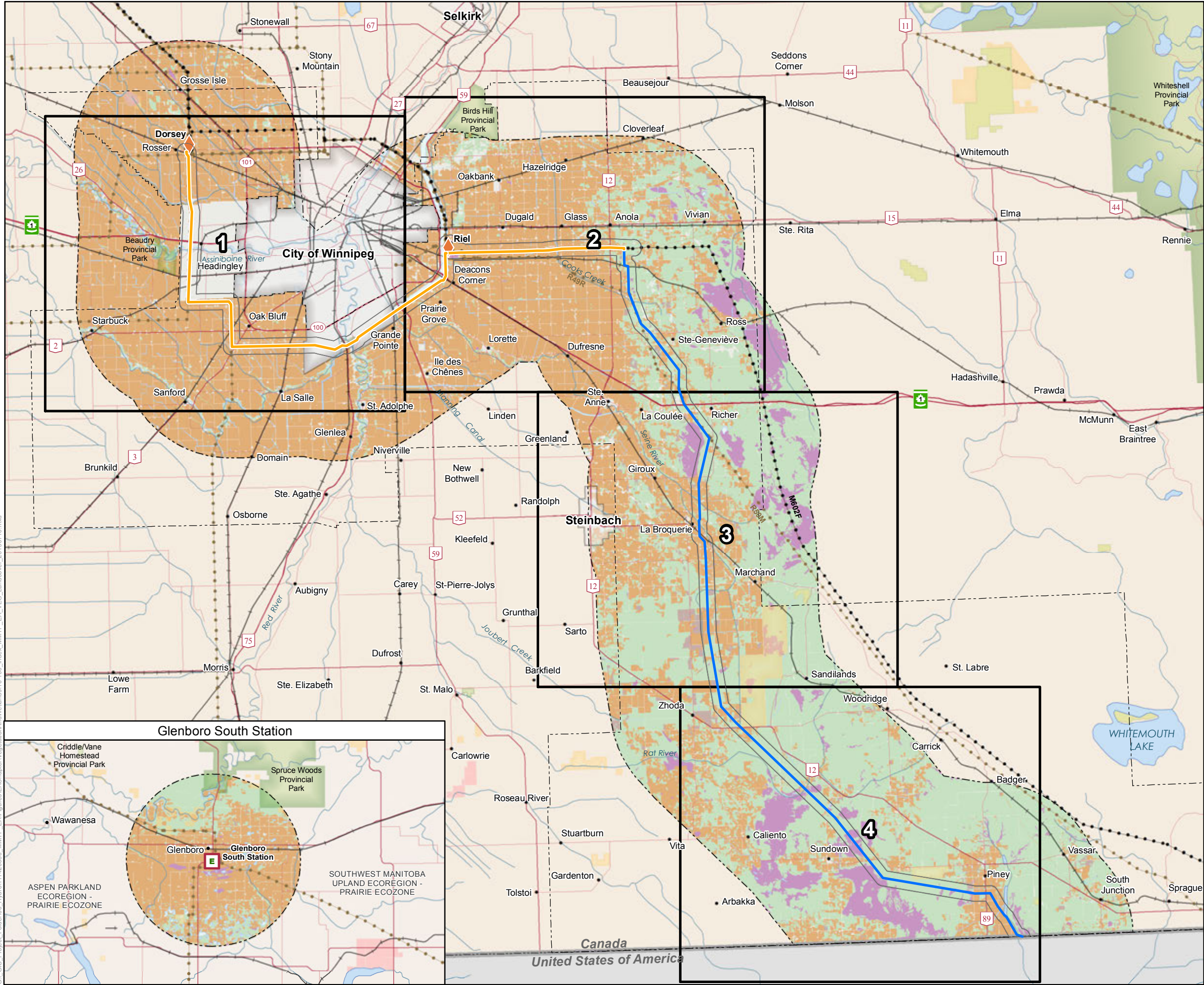
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

0 5 10 Kilometres
0 5 10 Miles

1:500,000

Habitat Fragmentation in the Regional Assessment Area

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Map Tile Index - 1:150,000

- Map Series Tile

Land Cover¹

- | | |
|------------------|--------------------------|
| Developed | Native Upland Vegetation |
| Agriculture | Wetland |
| Recently Cleared | Water |

Assessment Area

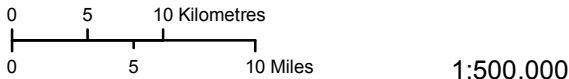
- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- | | |
|------------------------|----------------------------|
| ● Community | □ Rural Municipality |
| — Trans Canada Highway | □ Ecological Reserve |
| — Provincial Highway | □ Wildlife Management Area |
| — Provincial Road | □ Provincial Park |
| □ City / Town | — Watercourse |
| □ First Nation Lands | □ Waterbody |

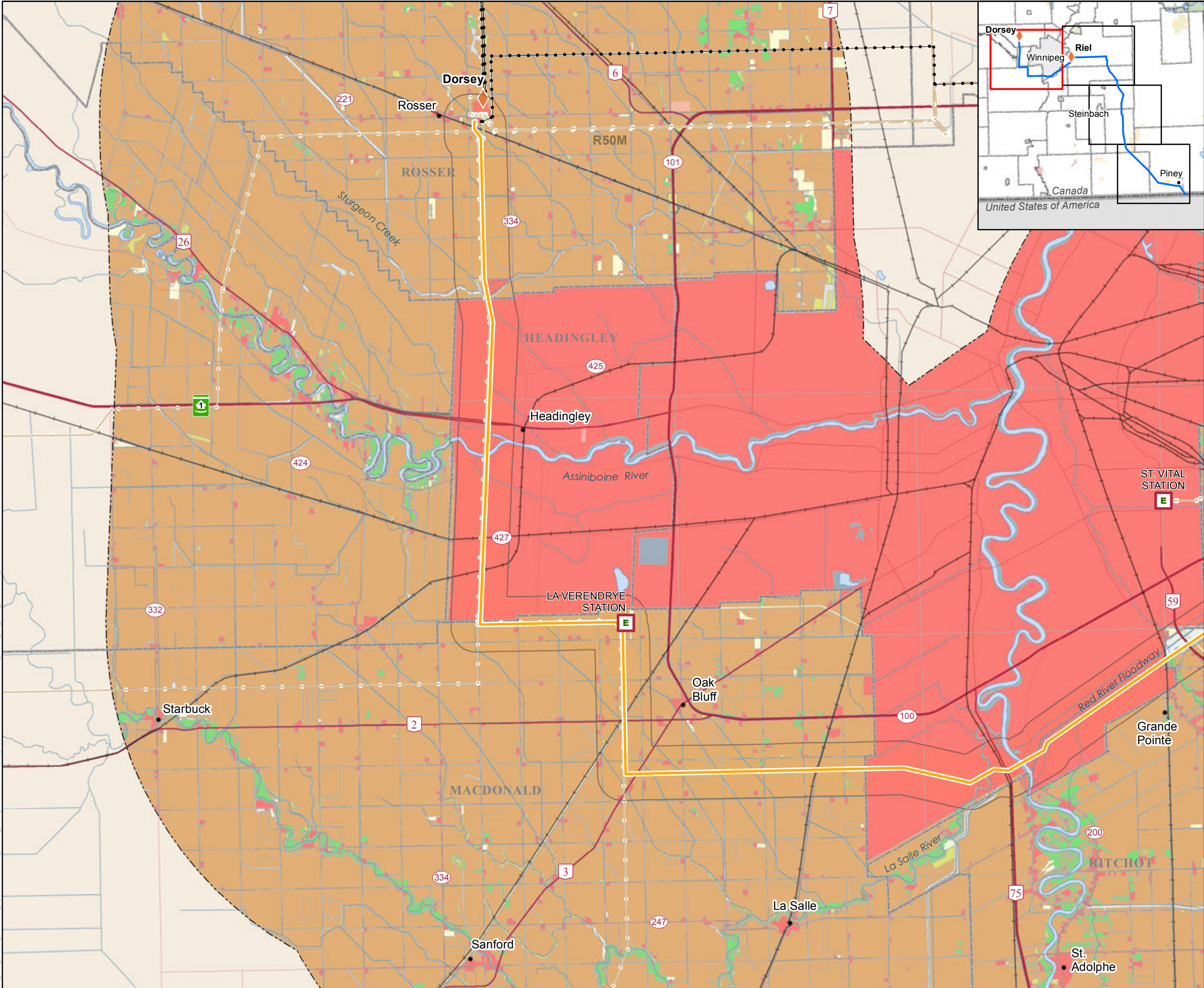
Source:
1. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015



Index of Map Series Vegetation and Wetland Cover Classes in the LAA and RAA

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)

Infrastructure

- Electrical Station
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Land Cover¹²

- | | |
|------------------------------|--------------------------|
| Developed | Water |
| ■ Roads/Railways/Trails | ■ Lake |
| ■ Industrial | ■ River |
| ■ Buildings / Residential | ■ Channel |
| ■ Recreation Sites | Native Upland Vegetation |
| Agriculture | ■ Grassland |
| ■ Cultivated | ■ Shrubland |
| ■ Pasture | ■ Mixedwood Forest |
| Recently Cleared | ■ Deciduous Forest |
| ■ Recently Cleared (cutting) | Wetland |
| | ■ Marsh |
| | ■ Dugout |

Assessment Areas

- Vegetation and Wetlands Local Assessment Area
- - - Vegetation and Wetlands Regional Assessment Area

Landbase

- | | |
|------------------------|----------------------|
| ● Community | ■ First Nation Lands |
| ■ Trans Canada Highway | ■ City / Town |
| ■ Provincial Highway | ■ Rural Municipality |
| ■ Provincial Road | ■ Watercourse |
| ■ Railway | ■ Waterbody |

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

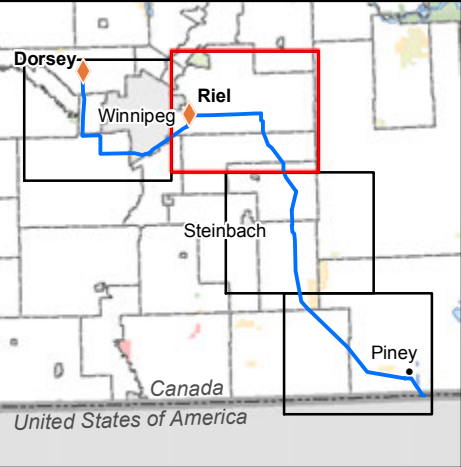
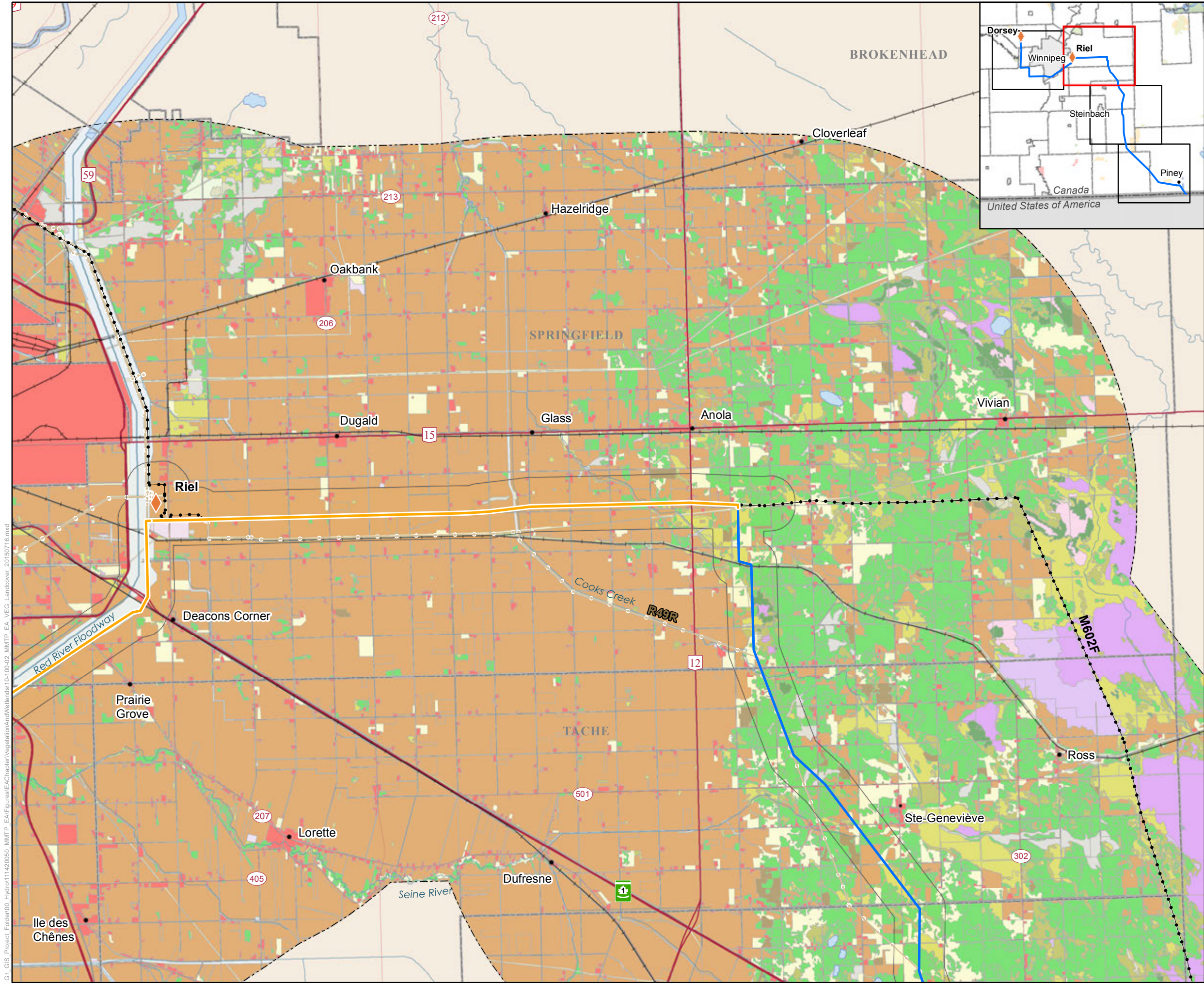
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Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

0 2 4 Kilometres
0 1.5 3 Miles

1:150,000



Vegetation and Wetland Cover Classes in the LAA and RAA



Manitoba-Minnesota
Transmission Project

Project Infrastructure

- Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Land Cover^{1,2}

- | | |
|----------------------------|--------------------------|
| Developed | Channel |
| Roads/Railways/Trails | Native Upland Vegetation |
| Industrial | Grassland |
| Buildings / Residential | Shrubland |
| Recreation Sites | Mixedwood Forest |
| Agriculture | Deciduous Forest |
| Cultivated | Coniferous Forest |
| Pasture | Wetland |
| Recently Cleared | Bog |
| Recently Cleared (cutting) | Fen |
| Water | Marsh |
| Lake | Dugout |

Assessment Areas

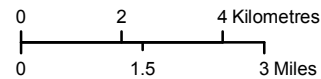
- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- | | |
|----------------------|--------------------|
| Community | First Nation Lands |
| Trans Canada Highway | City / Town |
| Provincial Highway | Rural Municipality |
| Provincial Road | Watercourse |
| Railway | Waterbody |

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

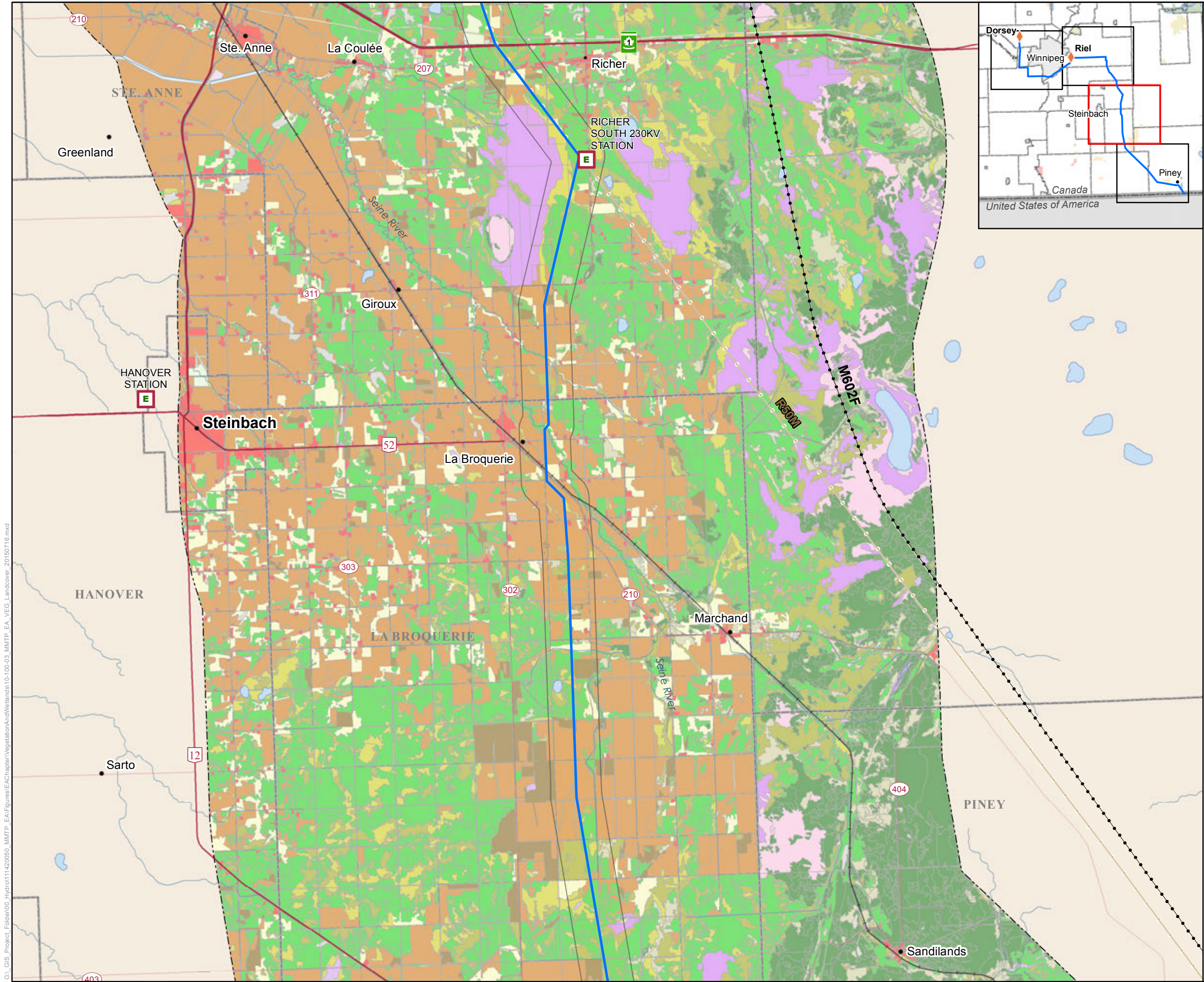


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Vegetation and Wetland Cover
Classes in the LAA and RAA

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Manitoba-Minnesota Transmission Project

- Project Infrastructure**
- ◆ Converter Station (Existing)
 - Final Preferred Route (New Right-of-way)

- Infrastructure**
- Electrical Station
 - Existing 500kV Transmission Line
 - Existing 230kV Transmission Line

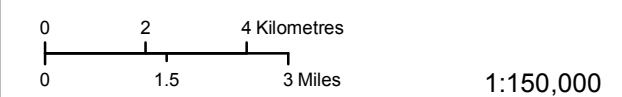
- Land Cover^{1,2}**
- | | |
|------------------------------|--------------------------|
| Developed | Channel |
| ■ Roads/Railways/Trails | Native Upland Vegetation |
| ■ Industrial | ■ Grassland |
| ■ Buildings / Residential | ■ Shrubland |
| ■ Recreation Sites | ■ Mixedwood Forest |
| Agriculture | ■ Deciduous Forest |
| ■ Cultivated | ■ Coniferous Forest |
| ■ Pasture | Wetland |
| Recently Cleared | ■ Bog |
| ■ Recently Cleared (cutting) | ■ Fen |
| Water | ■ Marsh |
| ■ Lake | ■ Dugout |

- Assessment Areas**
- Vegetation and Wetlands Local Assessment Area
 - Vegetation and Wetlands Regional Assessment Area

- Landbase**
- | | |
|------------------------|----------------------|
| ● Community | ■ First Nation Lands |
| ■ Trans Canada Highway | ■ City / Town |
| ■ Provincial Highway | ■ Rural Municipality |
| ■ Provincial Road | ■ Watercourse |
| ■ Railway | ■ Waterbody |

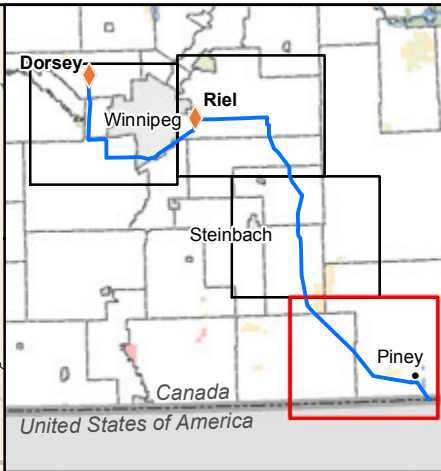
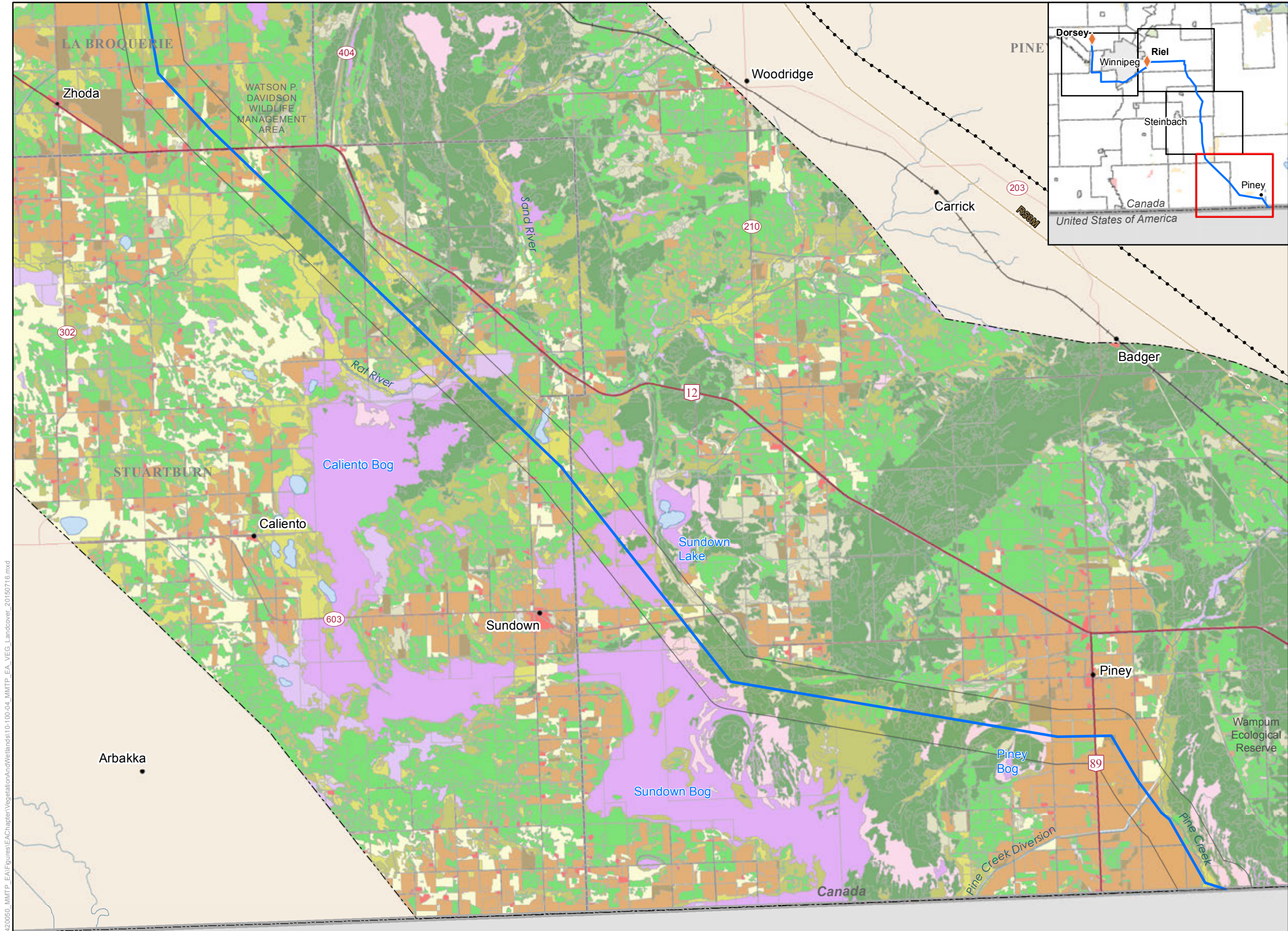
Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015



Vegetation and Wetland Cover Classes in the LAA and RAA

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Land Cover^{1,2}

- | | |
|----------------------------|---------------------------------|
| Developed | River |
| Roads/Railways/Trails | Channel |
| Industrial | Native Upland Vegetation |
| Buildings / Residential | Grassland |
| Recreation Sites | Shrubland |
| Agriculture | Mixedwood Forest |
| Cultivated | Deciduous Forest |
| Pasture | Coniferous Forest |
| Recently Cleared | Wetland |
| Recently Cleared (cutting) | Bog |
| Water | Fen |
| Lake | Marsh |
| | Dugout |

Assessment Areas

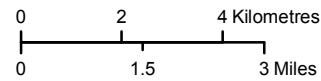
- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- | | |
|----------------------|--------------------|
| Community | First Nation Lands |
| Trans Canada Highway | City / Town |
| Provincial Highway | Rural Municipality |
| Provincial Road | Watercourse |
| Railway | Waterbody |

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

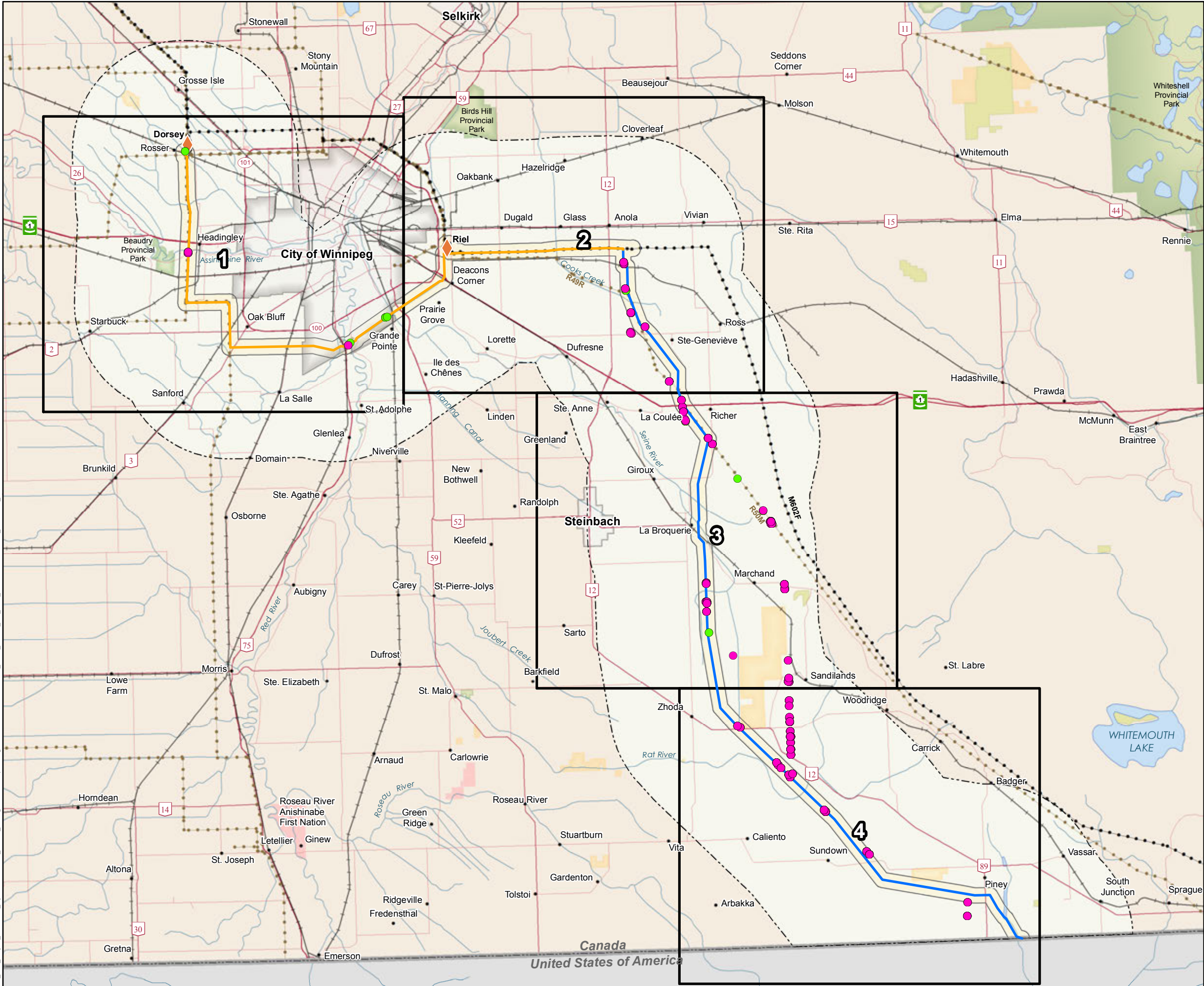
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Date Created: August 14, 2015



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Vegetation and Wetland Cover Classes in the LAA and RAA

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- Converter Station (Existing)
- MMTP Final Preferred Route (Existing Corridor)
- MMTP Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Map Tile Index - 1:150,000

- Map Series Tile

Traditional Use Plant Species Observed

- Sites with Berries Observed
- Sites without Berries Observed

Assessment Area

- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- Community
- Railway
- Trans Canada
- Provincial Highway
- Provincial Road
- City
- First Nation Lands
- Ecological Reserve
- Wildlife Management Area
- Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

0 5 10 Kilometres
0 5 10 Miles

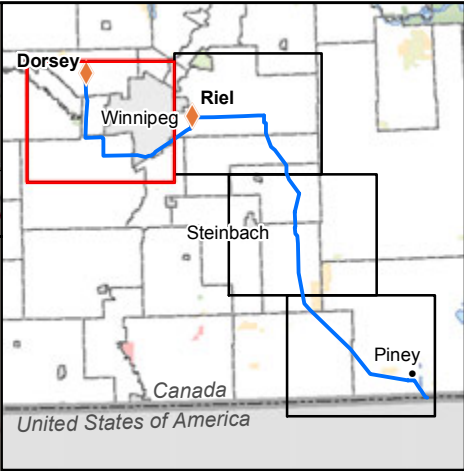
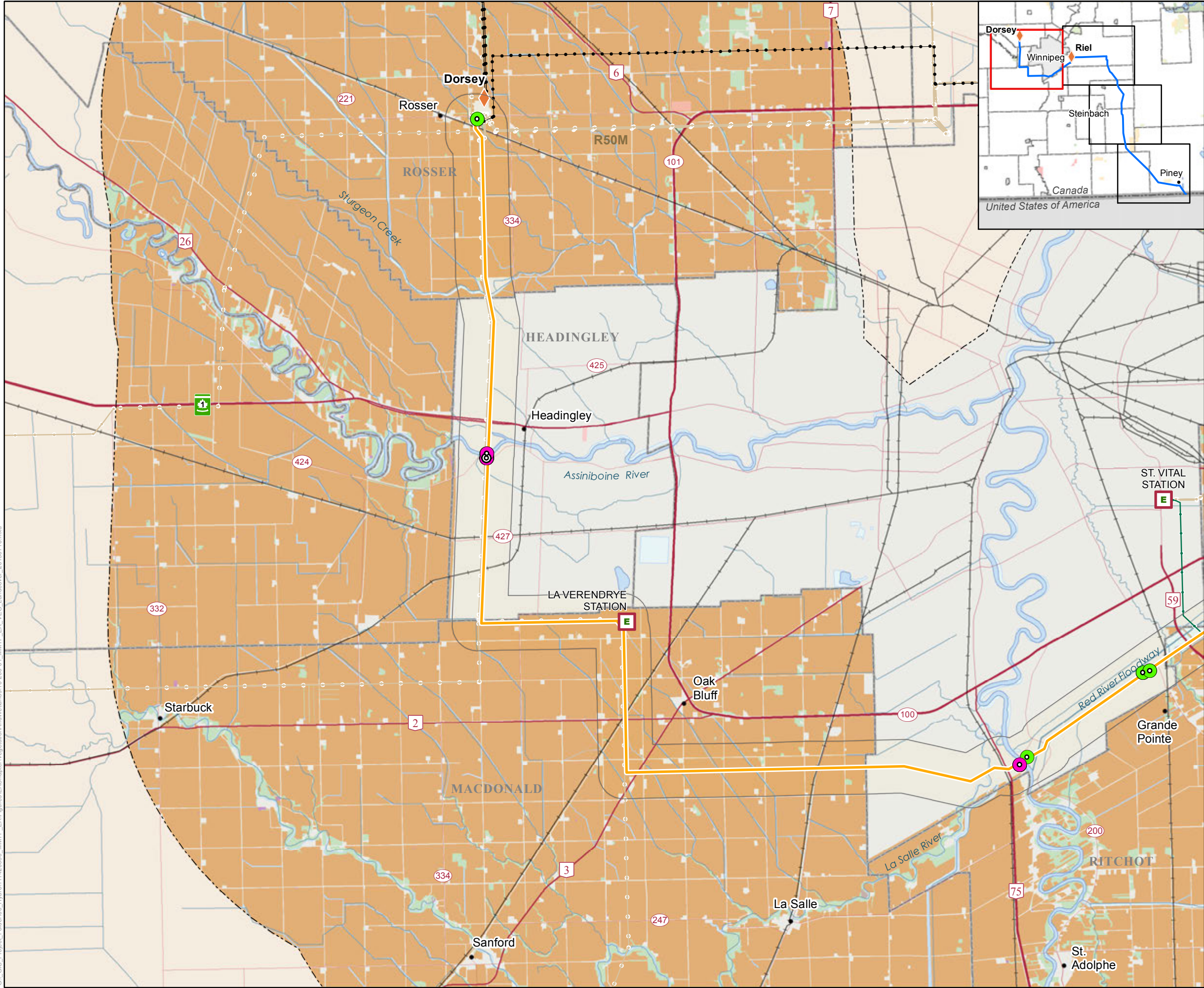


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Index of Map Series Traditional Use Plant Species Observed

Map Series 10-200

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)

Infrastructure

- Electrical Station
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line
- Bipole III Transmission Line (Approved)
- St. Vital Transmission Complex (V95L)

Traditional Use Plant Species Observed

- Sites without Berries Observed
- Sites with Berries Observed
- 1 - 5 Species Observed
- 11 - 15 Species Observed

Land Cover^{1,2}

- Developed
- Agriculture
- Recently Cleared
- Native Upland Vegetation
- Wetland
- Water

Assessment Areas

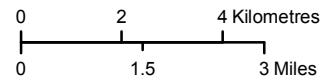
- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Railway
- First Nation Lands
- City / Town
- Rural Municipality
- Watercourse
- Waterbody

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

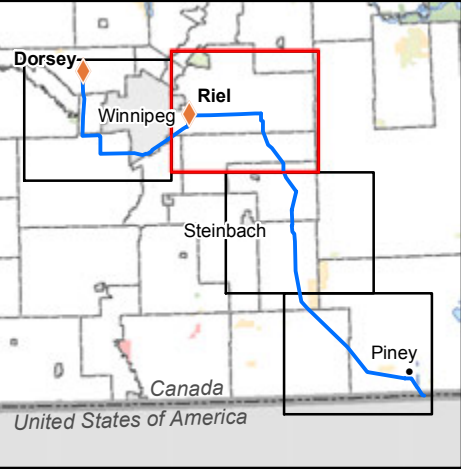
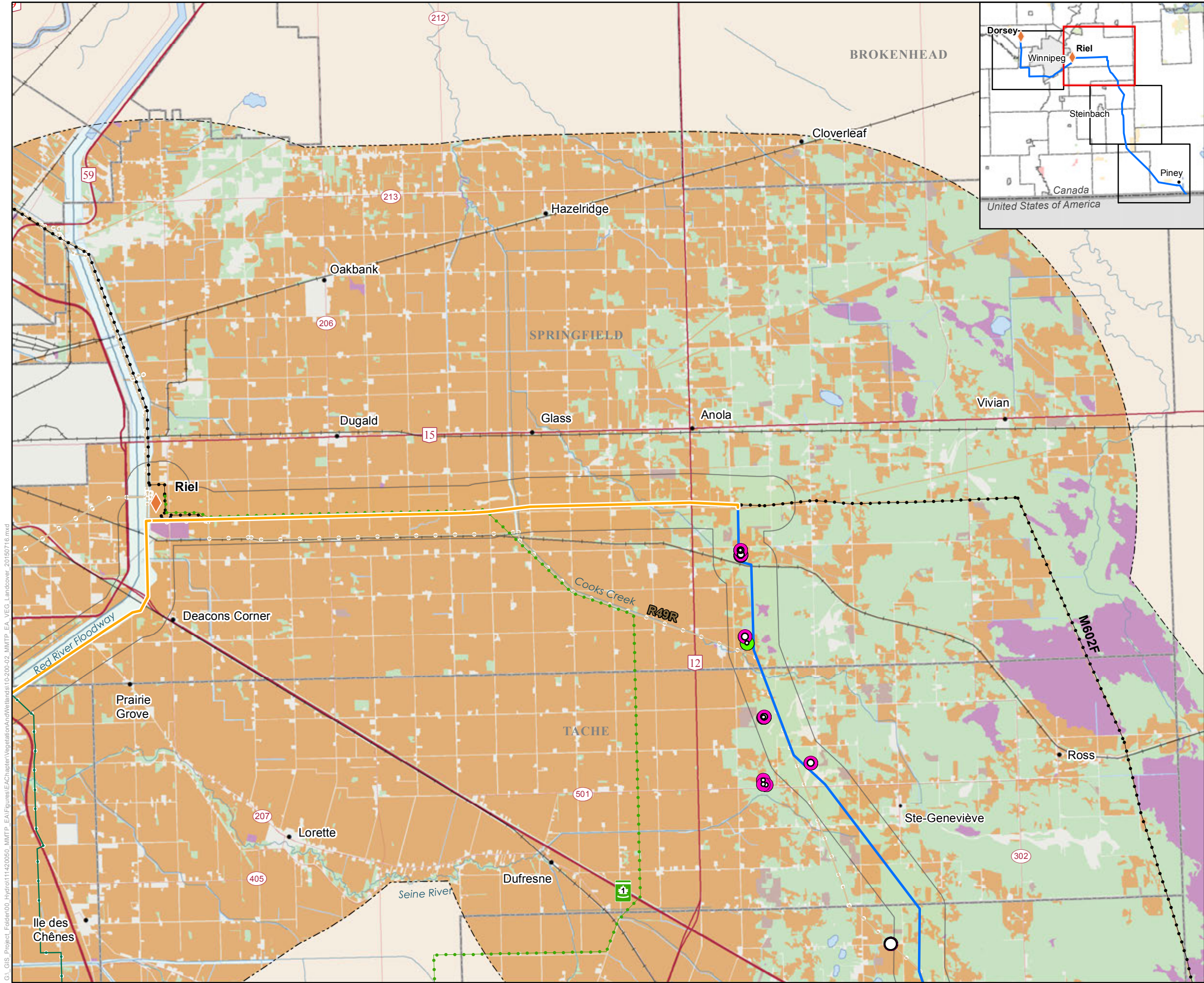
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Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015



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Traditional Use Plant Species Observed



Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (Existing Corridor)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line
- Bipole III Transmission Line (Approved)
- St. Vital Transmission Complex (V95L)

Traditional Use Plant Species Observed

- Sites without Berries Observed
- Sites with Berries Observed
- 1 - 5 Species Observed
- 6 - 10 Species Observed
- > 15 Species Observed

Land Cover^{1,2}

- Developed
- Agriculture
- Recently Cleared
- Native Upland Vegetation
- Wetland
- Water

Assessment Areas

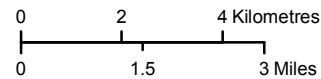
- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Railway
- First Nation Lands
- City / Town
- Rural Municipality
- Watercourse
- Waterbody

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

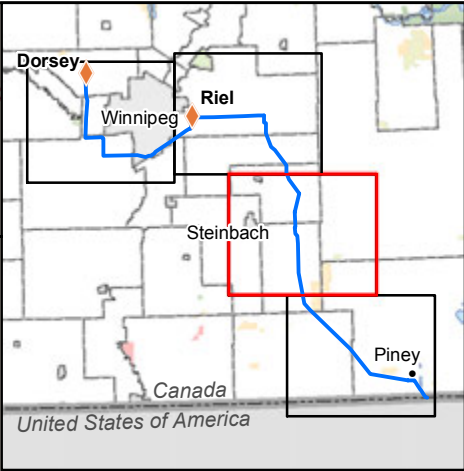
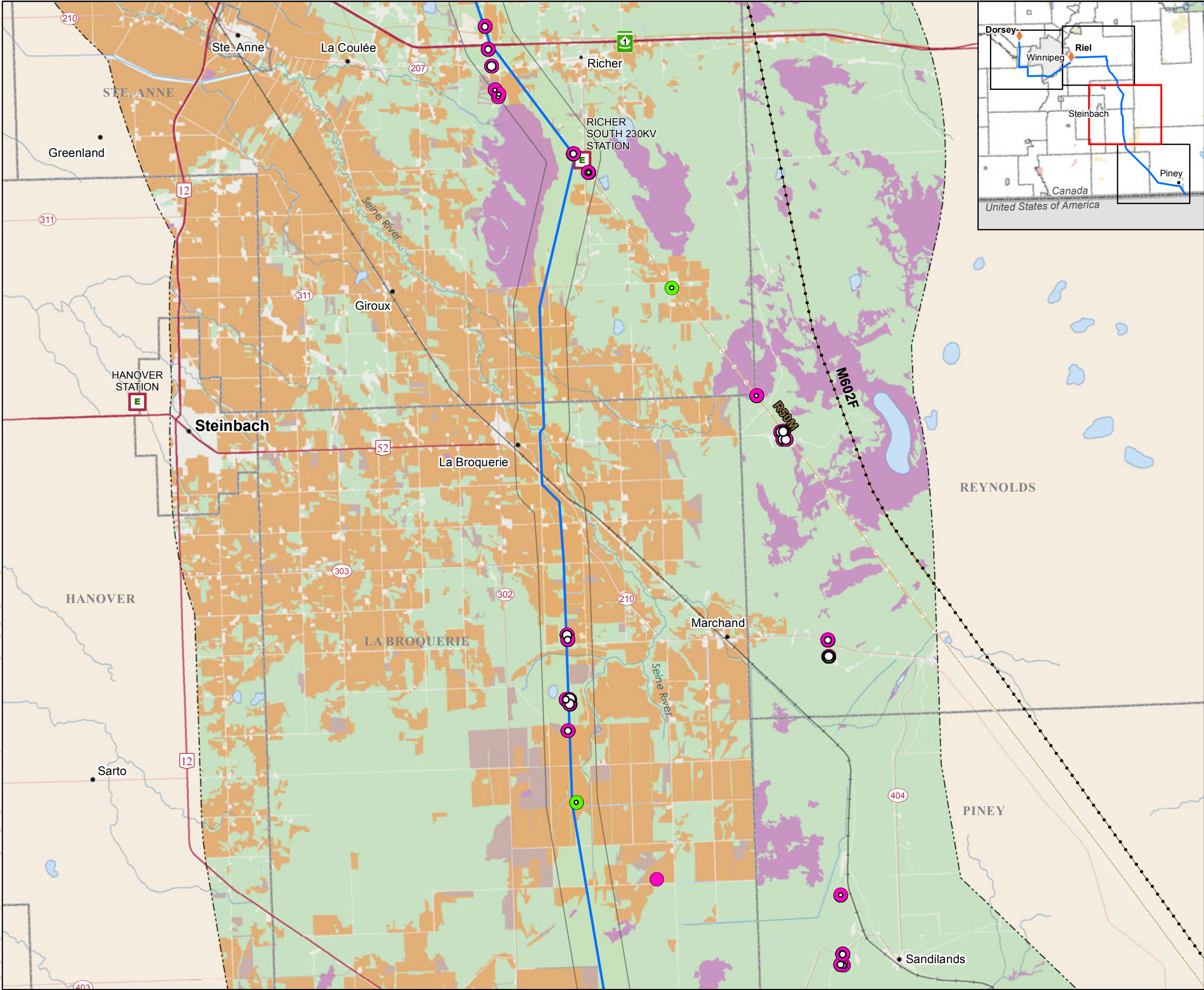


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Traditional Use Plant Species Observed

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Electrical Station
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Traditional Use Plant Species Observed

- Sites with Berries Observed
- Sites without Berries Observed
- 1 - 5 Species Observed
- 6 - 10 Species Observed
- 11 - 15 Species Observed
- > 15 Species Observed

Land Cover^{1,2}

- Developed
- Agriculture
- Recently Cleared
- Native Upland Vegetation
- Wetland
- Water

Assessment Areas

- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Railway
- First Nation Lands
- City / Town
- Rural Municipality
- Watercourse
- Waterbody

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

0 2 4 Kilometres
0 1.5 3 Miles

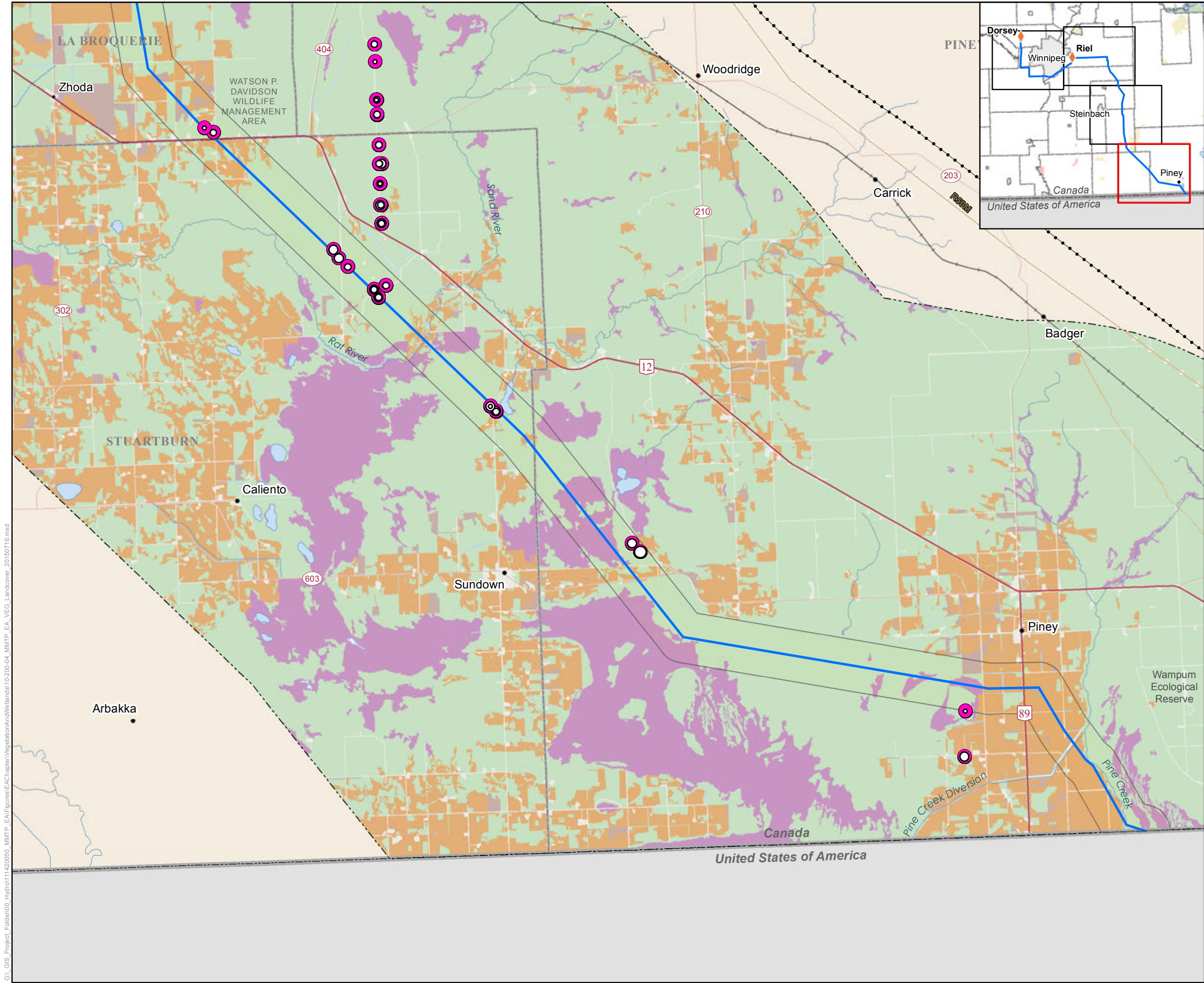


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Traditional Use Plant Species Observed

Map 10-200-03

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Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (New Right-of-way)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Traditional Use Plant Species Observed

- Sites with Berries Observed
- Sites without Berries Observed
- 1 - 5 Species Observed
- 6 - 10 Species Observed
- 11 - 15 Species Observed
- > 15 Species Observed

Land Cover^{1,2}

- Developed
- Agriculture
- Recently Cleared
- Native Upland Vegetation
- Wetland
- Water

Assessment Areas

- Vegetation and Wetlands Local Assessment Area
- Vegetation and Wetlands Regional Assessment Area

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Railway
- First Nation Lands
- City / Town
- Rural Municipality
- Watercourse
- Waterbody

Source:
1. Vegetation and Wetland Land Cover, 2015. Stantec
2. Forest Resource Inventory, 1979-1999, Manitoba Conservation and Water Stewardship

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 14, 2015

0 2 4 Kilometres
0 1.5 3 Miles



1:150,000

Traditional Use Plant Species Observed