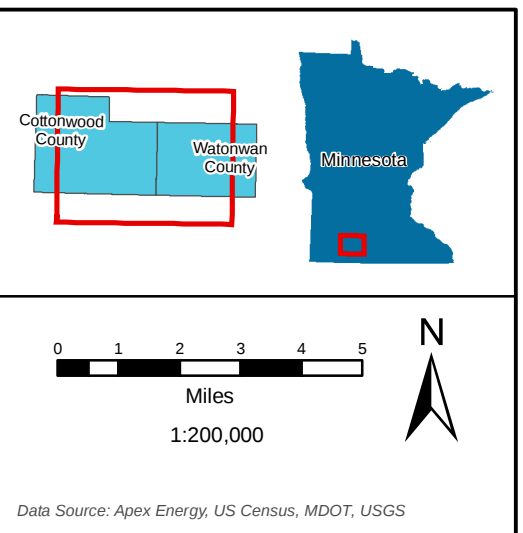
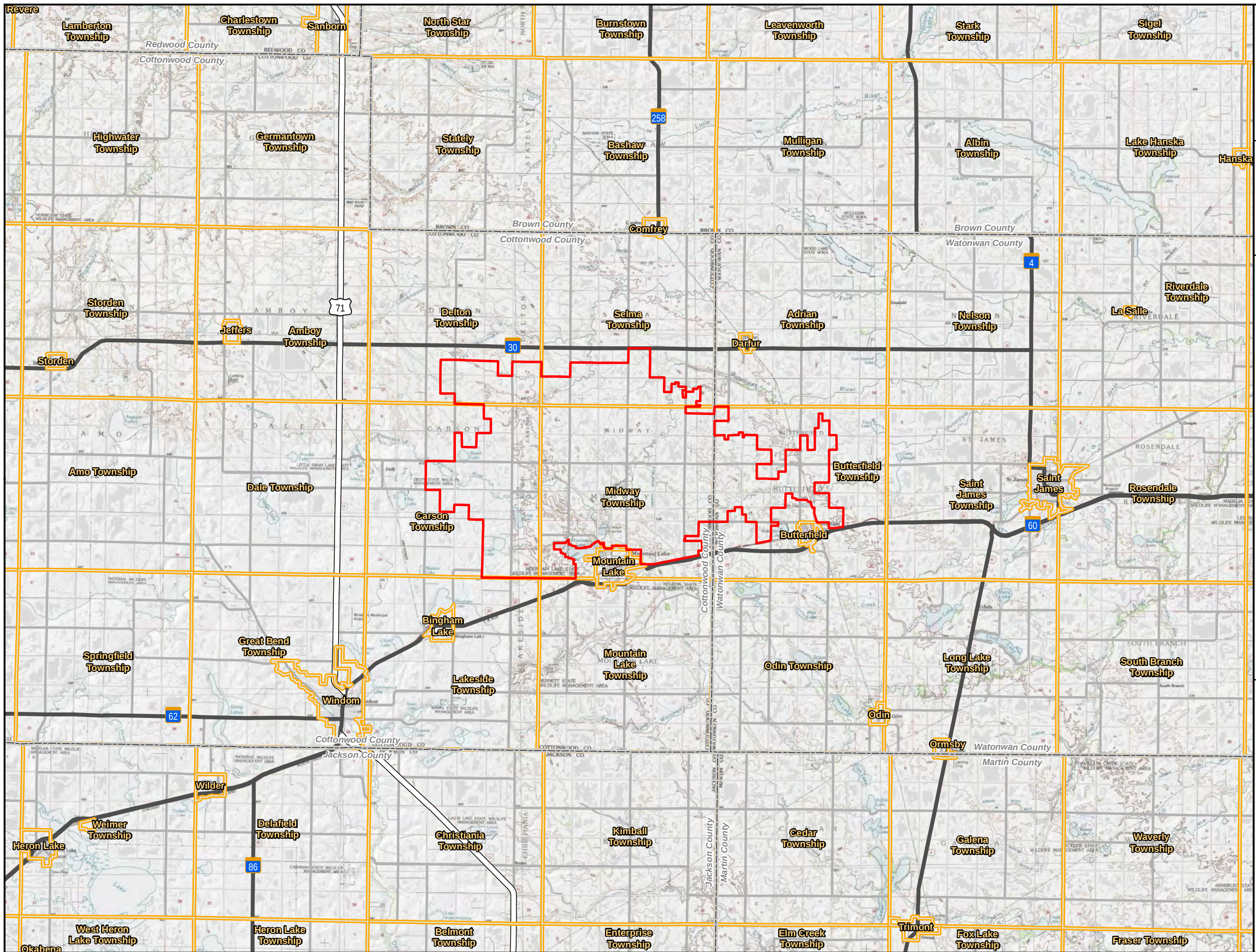
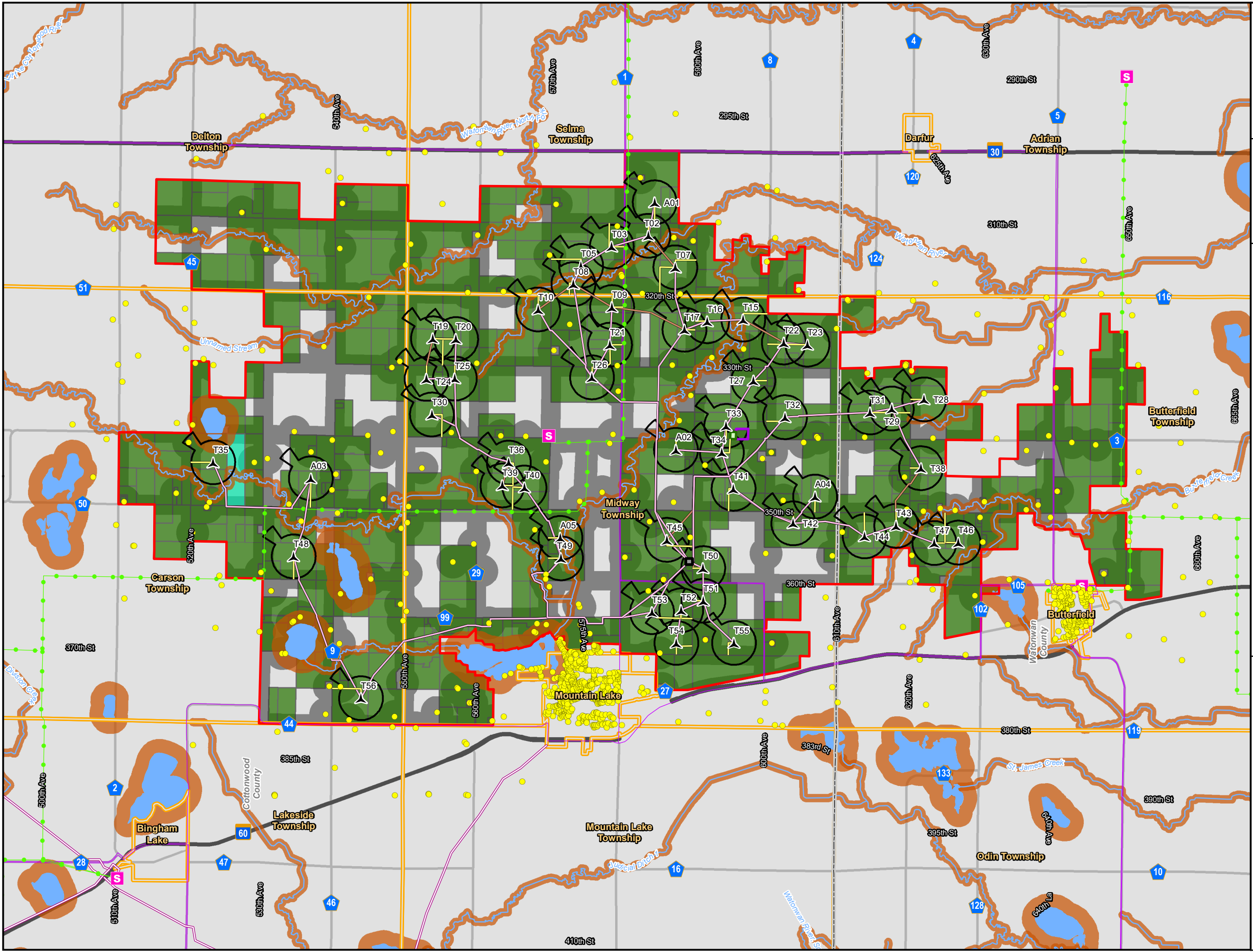


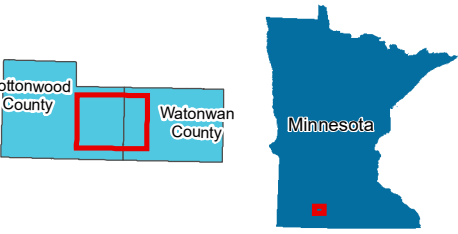
Figures



- Project Area Boundary
- City/Township
- County Boundary

Figure 1
Project Location
Big Bend Wind Project
Cottonwood and Watonwan
Counties, Minnesota





0 1 2
Miles
1:80,000

Data Source: Apex Energy, US Census, MDOT, MDNR

- V162 Proposed Turbine
- Residential Structure (within 1 mile of Project Area Boundary)
- Existing Substation
- Access Road
- Collection Line
- Crane Path
- Existing Transmission Line
- Existing Pipeline
- Snowmobile Trail
- Laydown
- Wind Project Substation
- O&M Area
- Project Area Boundary
- Wind Access Buffer
- Public Water Basin
- Public Water Watercourse
- Pending Participating Parcel
- Participating Parcel
- Shoreland Management Area
- Setbacks
- City/Township
- County Boundary

*Turbines not to scale

Figure 2b Turbine Layouts and Constraints Vestas V162

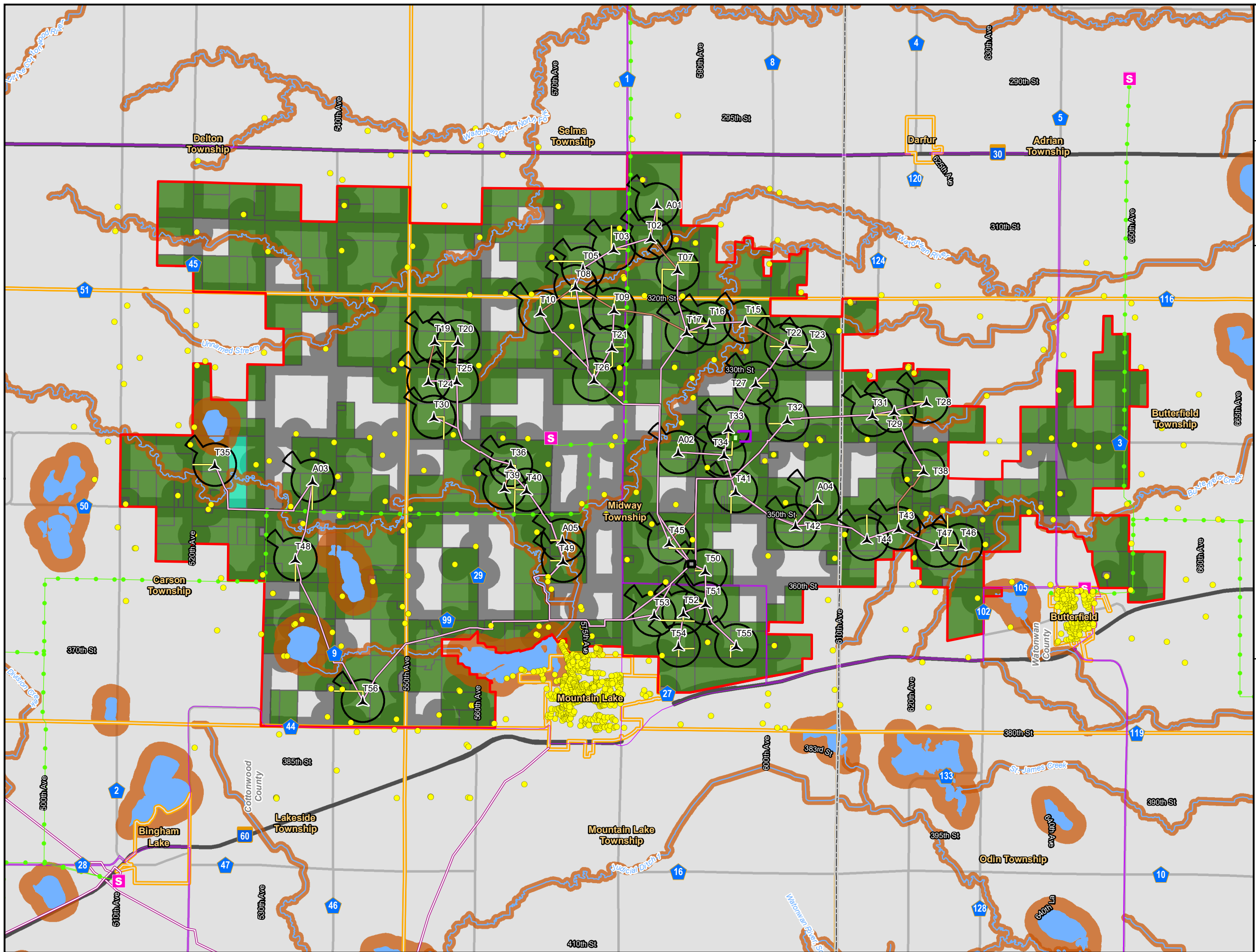
Big Bend Wind Project

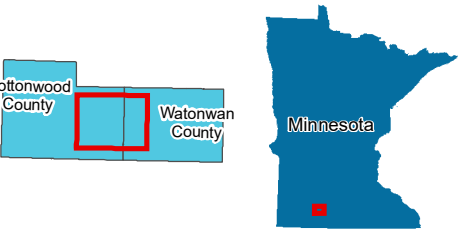
Cottonwood and Watonwan Counties, Minnesota



For Environmental Review Purposes Only

Date: 10/17/2021
Source: Z:\Clients\Big Bend\Big Bend Wind Project\Map\Map_Layout_Constraints.mxd





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Miles
1:80,000

Data Source: Apex Energy, US Census, MDOT, MDNR

- ▲ GE158 Proposed Turbine
- Residential Structure (within 1 mile of Project Area Boundary)
- S** Existing Substation
- Access Road
- Collection Line
- Crane Path
- Existing Transmission Line
- Existing Pipeline
- Snowmobile Trail
- Laydown
- Wind Project Substation
- O&M Area
- Project Area Boundary
- Wind Access Buffer
- Public Water Basin
- Public Water Watercourse
- Pending Participating Parcel
- Participating Parcel
- Shoreland Management Area
- Setbacks
- City/Township
- County Boundary

*Turbines not to scale

Figure 2c Turbine Layouts and Constraints GE-158

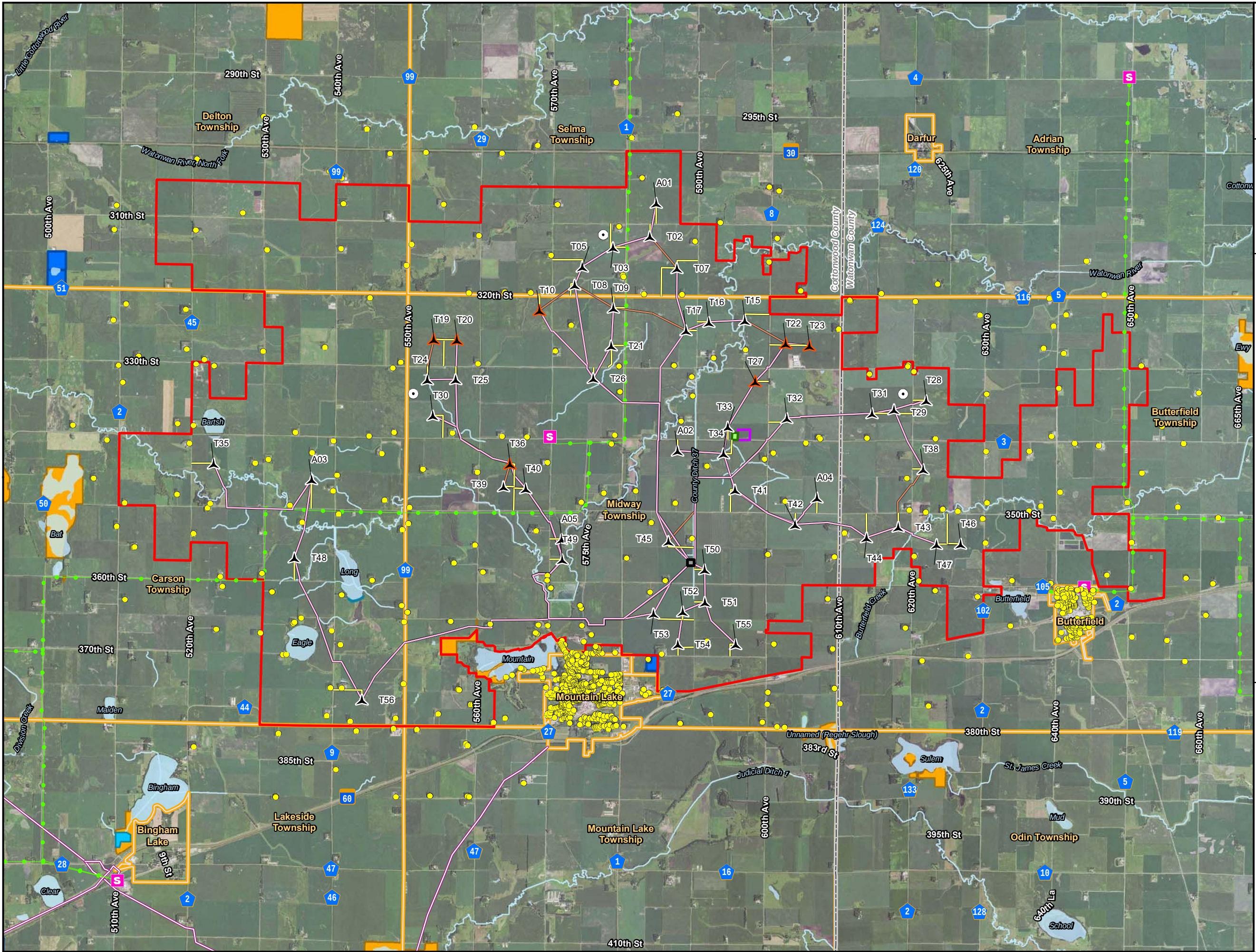
Big Bend Wind Project

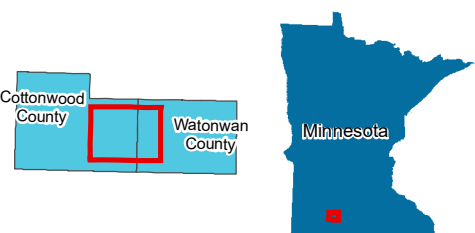
Cottonwood and Watonwan Counties, Minnesota



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Date: 10/17/2021 Source: Z:\Clients\Big Bend\Big Bend Wind Project\Map\Map_Layout_Constraints.mxd





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Miles
1:80,000

▲ Primary Turbine
▲ Spare Turbine
● Met Tower
● Residential Structure (within 1 mile of Project Area Boundary)
S Existing Substation
— Access Road
— Collection Line
— Crane Path
— Existing Transmission Line
— Existing Pipeline
□ Laydown
■ Wind Project Substation
■ O&M Area
□ Project Area Boundary
□ City/Township
□ County Boundary
Lake, Pond or Reservoir
River/Stream
■ Wildlife Management Area (WMA)
■ Aquatic Management Area (AMA)
■ Waterfowl Production Area (WPA)

*Turbines not to scale

Figure 3a
Project Area and Facilities
Nordex N-163

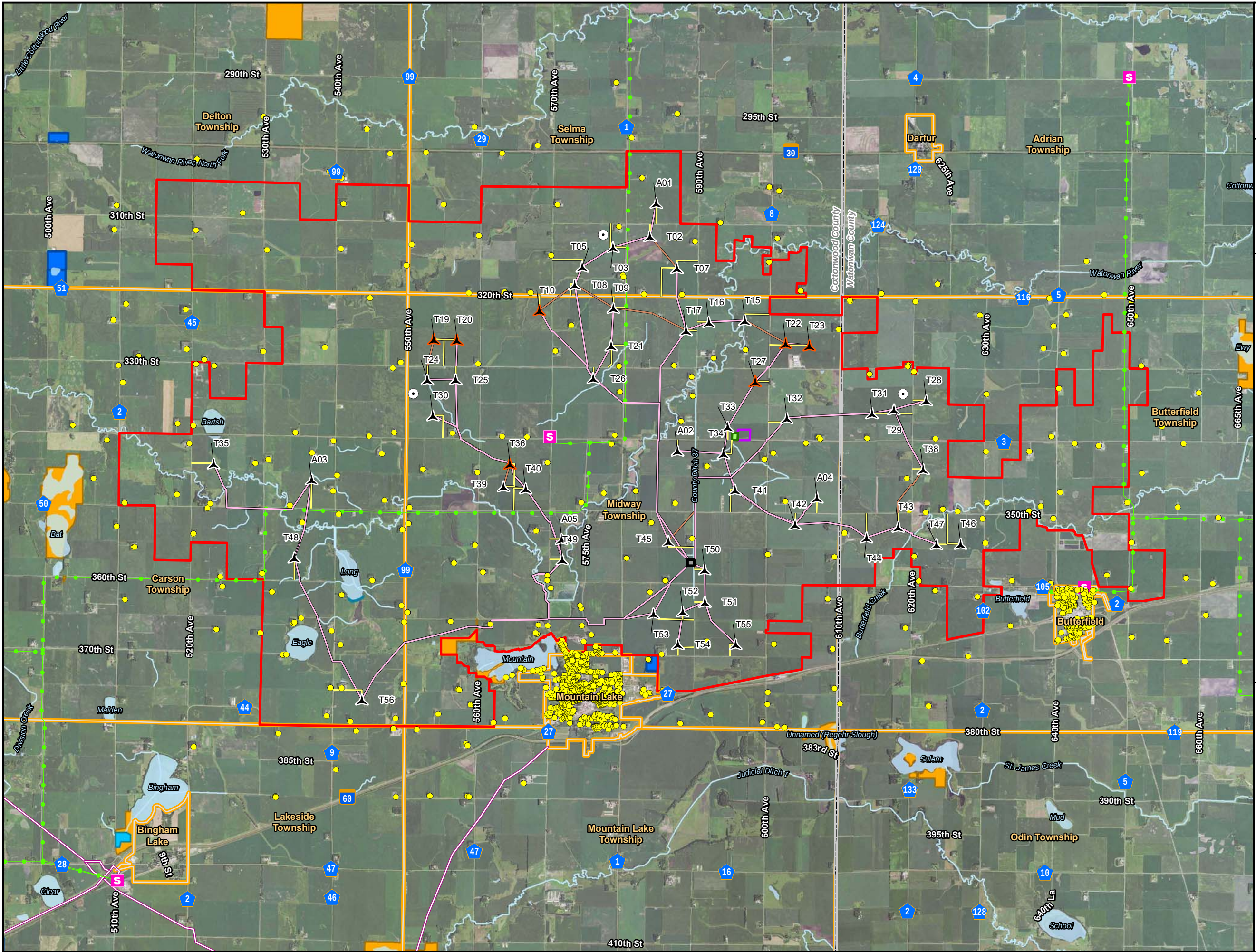
Big Bend Wind Project

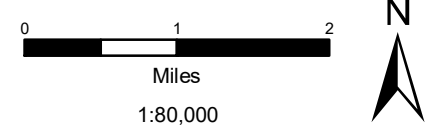
Cottonwood and Watonwan Counties, Minnesota



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Date: (9/17/2021) Source: Z:\Clients\VA\Apex\Big_Bend\Sites_Permit\Figures\Fig03a_N163_BB_Project_Area_Facilities.mxd





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Miles
1:80,000

Data Source: Apex Energy, US Census, MDOT, MDNR
PHMSA, USFWS

- Primary Turbine
- Spare Turbine
- Met Tower
- Residential Structure (within 1 mile of Project Area Boundary)
- Existing Substation
- Access Road
- Collection Line
- Crane Path
- Existing Transmission Line
- Existing Pipeline
- Laydown
- Wind Project Substation
- O&M Area
- Project Area Boundary
- City/Township
- County Boundary
- Lake, Pond or Reservoir
- River/Stream
- Wildlife Management Area (WMA)
- Aquatic Management Area (AMA)
- Waterfowl Production Area (WPA)

*Turbines not to scale

Figure 3b
Project Area and Facilities
Vestas V162

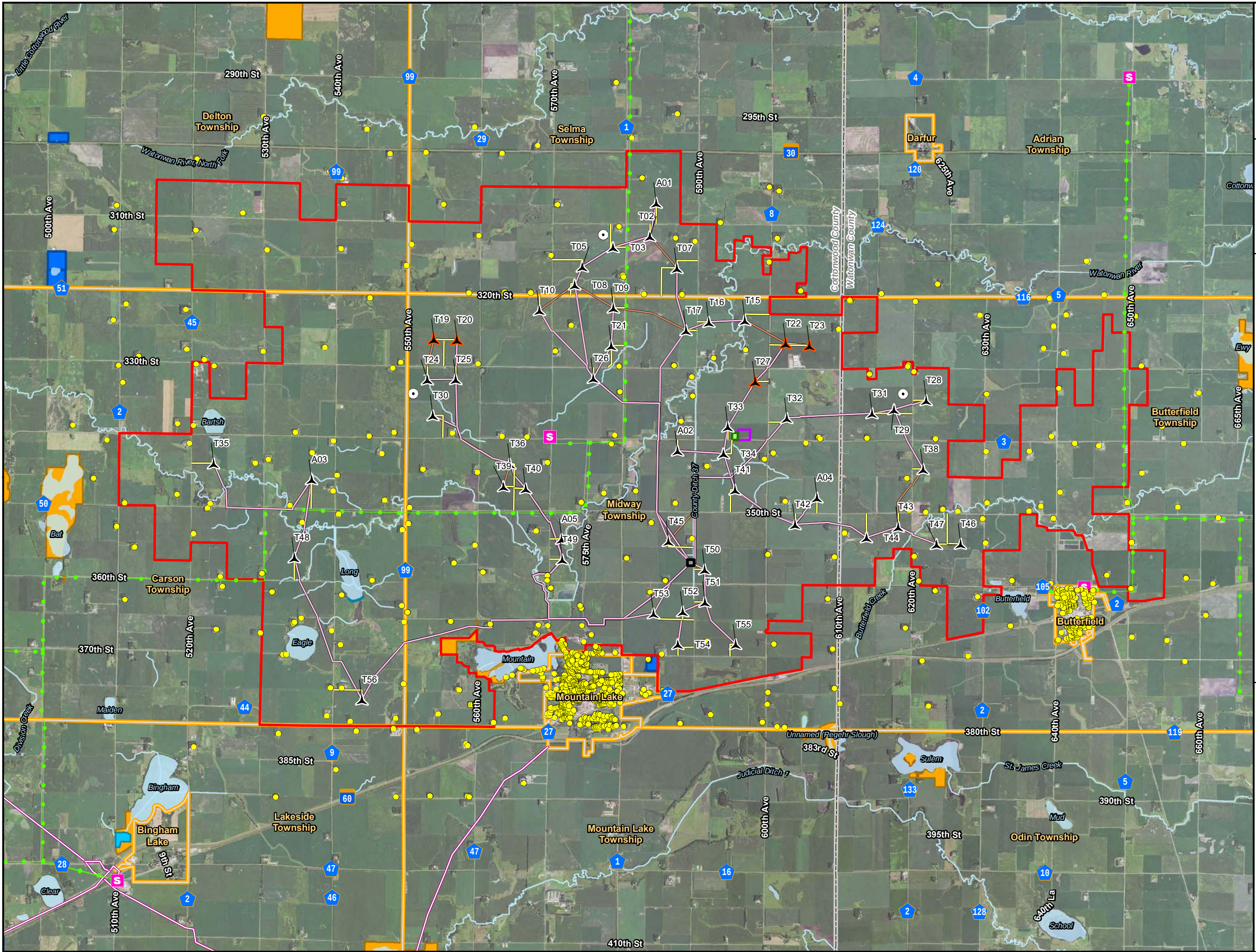
Big Bend Wind Project

Cottonwood and Watonwan Counties, Minnesota



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Miles
1:80,000

North Arrow

Data Source: Apex Energy, US Census, MDOT, MDNR, PHMSA, USFWS

- Primary Turbine
- Spare Turbine
- Met Tower
- Residential Structure (within 1 mile of Project Area Boundary)
- Existing Substation
- Access Road
- Collection Line
- Crane Path
- Existing Transmission Line
- Existing Pipeline
- Laydown
- Wind Project Substation
- O&M Area
- Project Area Boundary
- City/Township
- County Boundary
- Lake, Pond or Reservoir
- River/Stream
- Wildlife Management Area (WMA)
- Aquatic Management Area (AMA)
- Waterfowl Production Area (WPA)

*Turbines not to scale

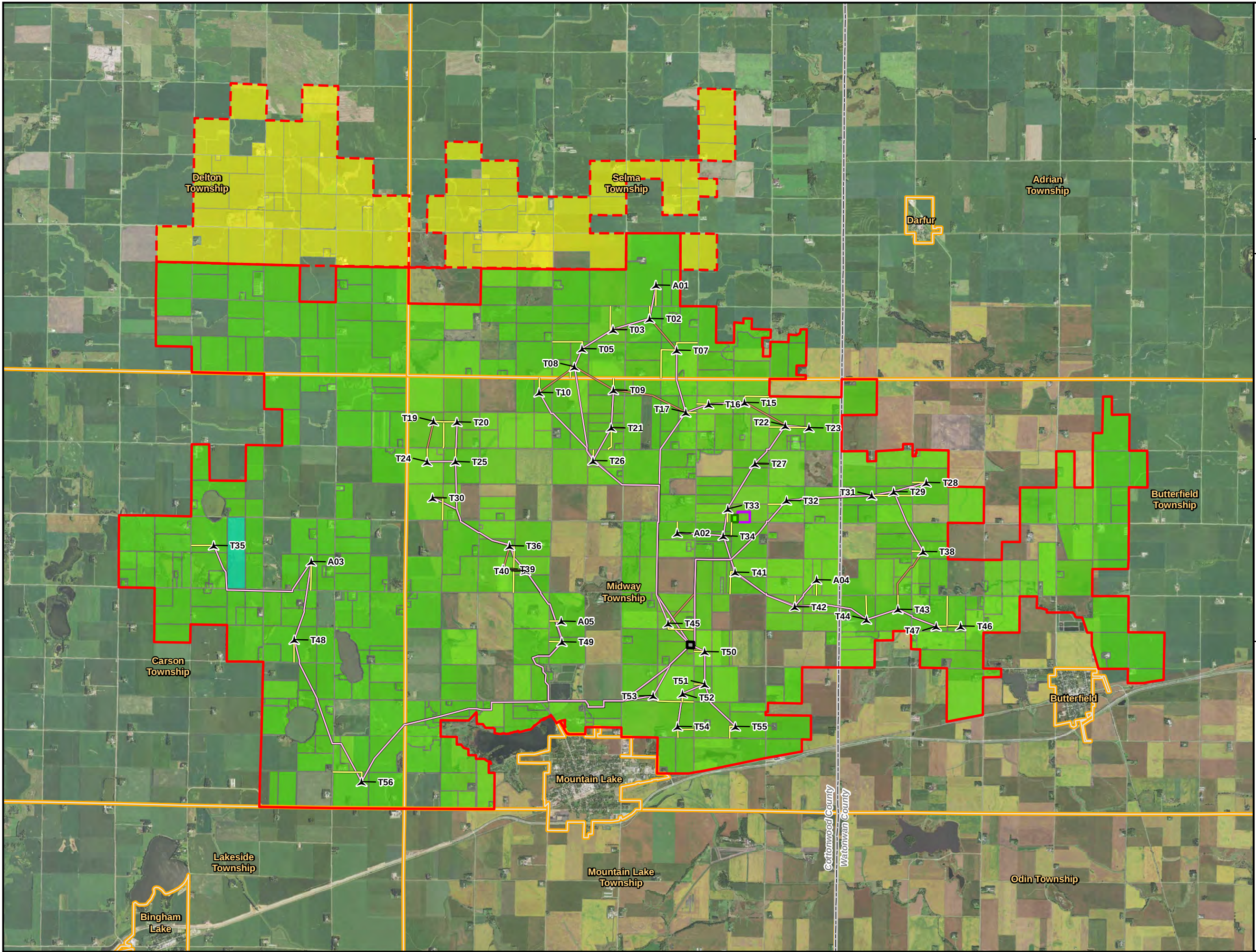
Figure 3c
Project Area and Facilities
GE-158

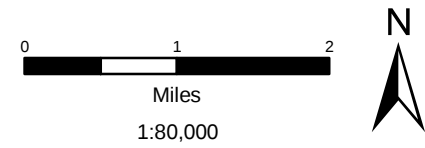
Big Bend Wind Project

Cottonwood and Watonwan Counties, Minnesota

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Source: Z:\Clients\Big Bend\GIS\Map_Series\Map_Series_158_BB_Project_Area_Facilities.mxd Date: 10/17/2021





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Miles
1:80,000

Data Source: Apex Energy, US Census, MDOT, FSA 2017 Imagery

-  Proposed Turbine
-  Access Road
-  Collection Line
-  Crane Path
-  Project Area Boundary
-  Wind Project Substation
-  O&M Area
-  Laydown
-  Buffer Zone
-  Participating Parcel in Buffer Zone
-  Pending Participating Parcel
-  Participating Parcel
-  City/Township
-  County Boundary

*Turbines not to scale

Figure 4

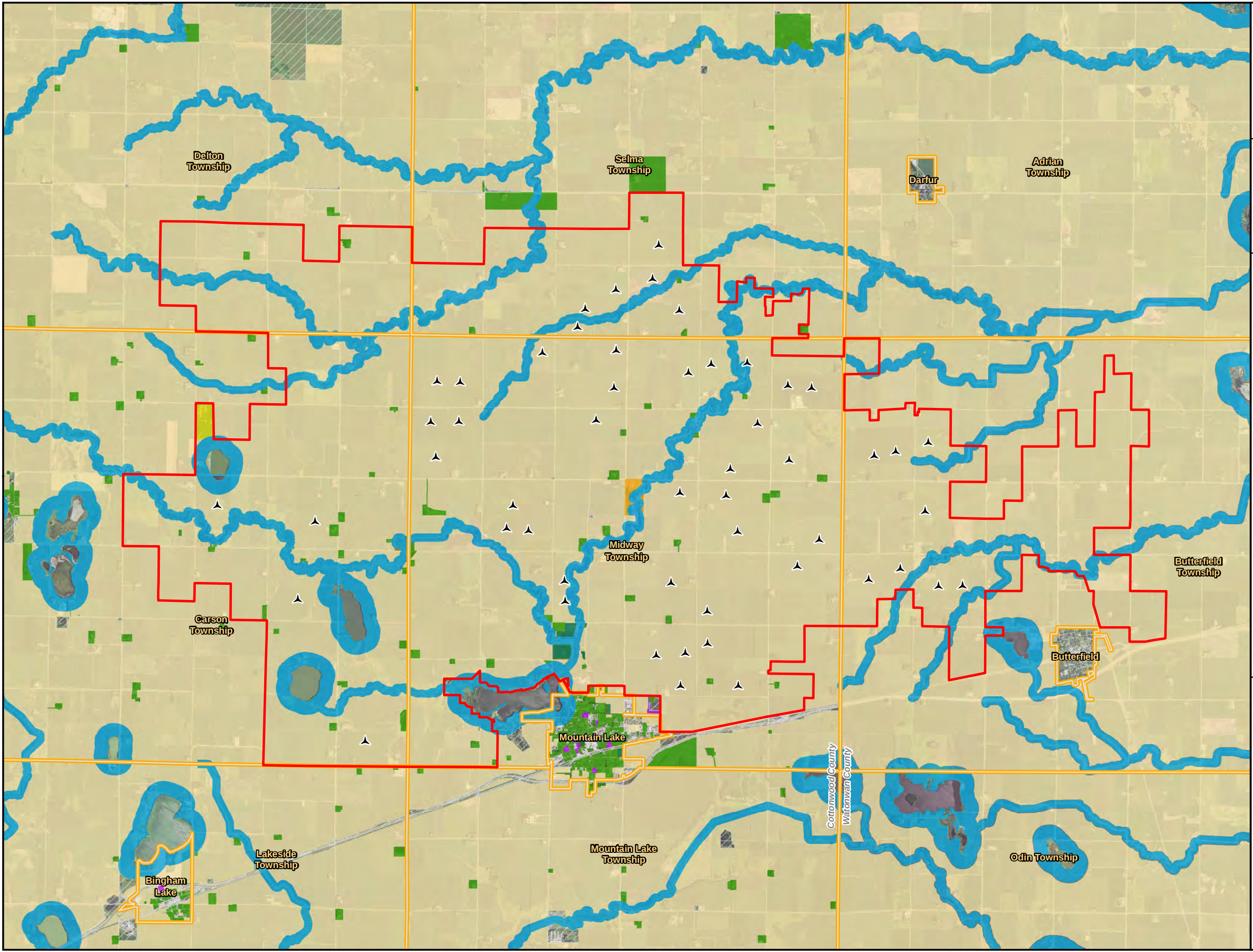
Land Ownership

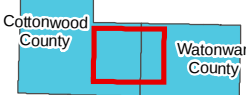
Big Bend Wind Project

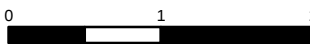
Cottonwood and Watonwan Counties, Minnesota



For Environmental Review Purposes Only







Miles
1:80,000



Data Source: Apex Energy, US Census, MDOT, FSA 2017 Imagery

 Proposed Turbine

 Project Area

 City/Township

County Zoning

 2A Farm Entity 1st Tier

 Agricultural

 Church Property: Sanctuary & Educational Facilities

 Municipality Property All

 Residential/Single Unit

 Rural Vacant Land

 Rural Vacant Non-Contiguous

 Shoreline District

 Zoning Outside Project

Figure 5

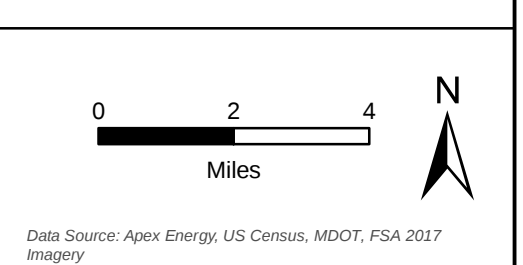
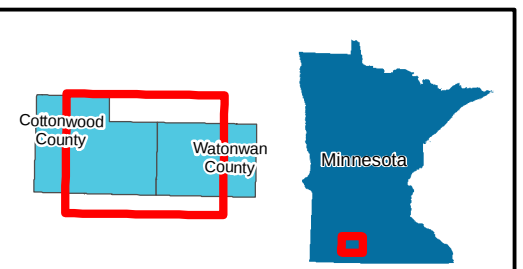
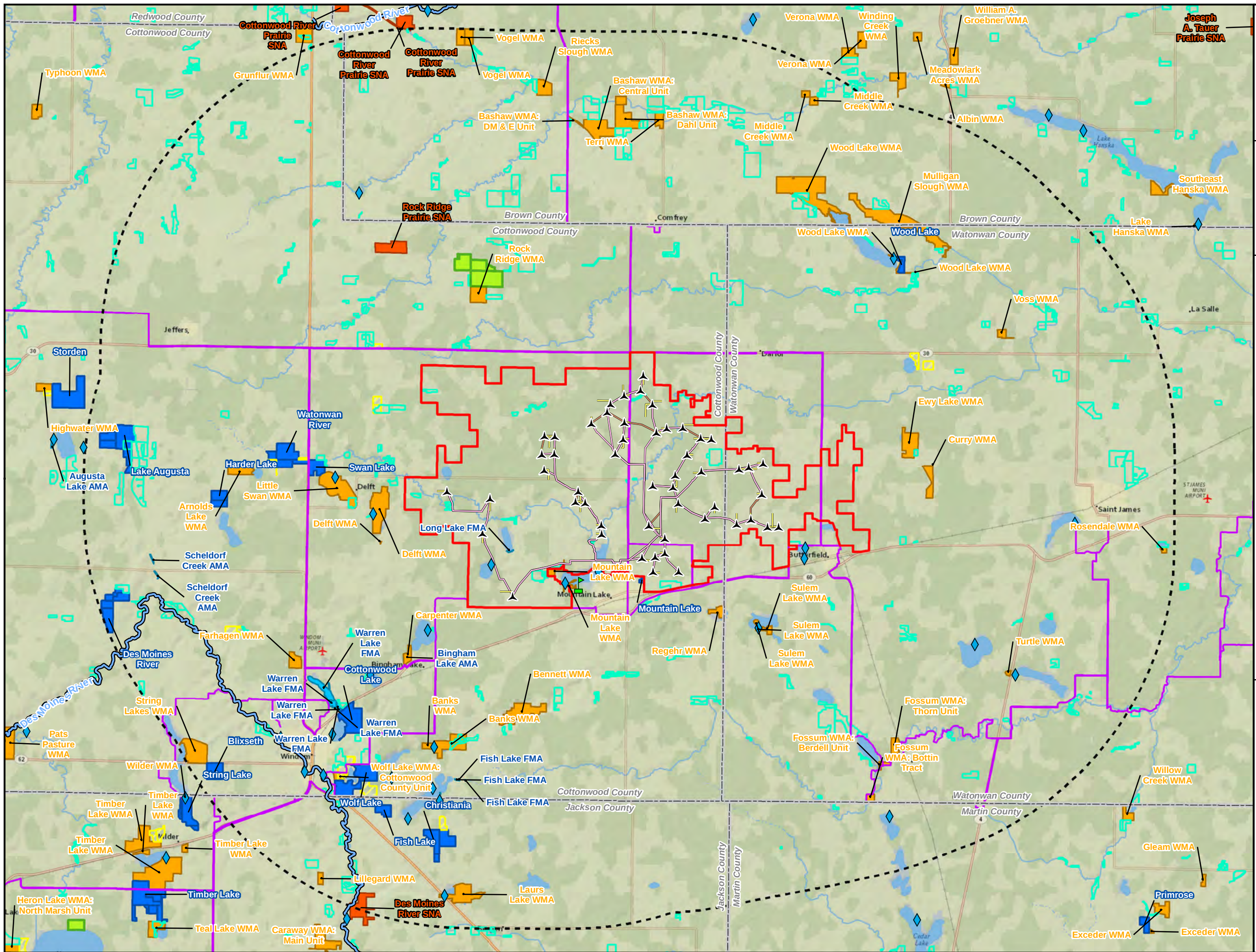
Zoning Map

Big Bend Wind Project

Cottonwood and Watonwan Counties, Minnesota



For Environmental Review Purposes Only



- Data Source: Apex Energy, US Census, MDOT, FSA 2017 Imagery
- ▲ Proposed Turbine
 - Access Road
 - Collection Line
 - Crane Path
 - Minnesota State Trail
 - Minnesota Water Trail
 - ▭ Project Area Boundary
 - - - 10 Mile Buffer
 - ◆ DNR Water Access Site
 - 🏌️ Mountain Lake Golf Course
 - ▨ US Fish and Wildlife Easement
 - Waterfowl Production Area
 - Wildlife Management Area (WMA)
 - Scientific & Natural Area (SNA)
 - Aquatic Management Area (AMA)
 - ▭ CREP and RIM Easement
 - The Nature Conservancy
 - ▭ County Boundary
- *Turbines not to scale

Figure 6

Public Land Ownership and Recreation

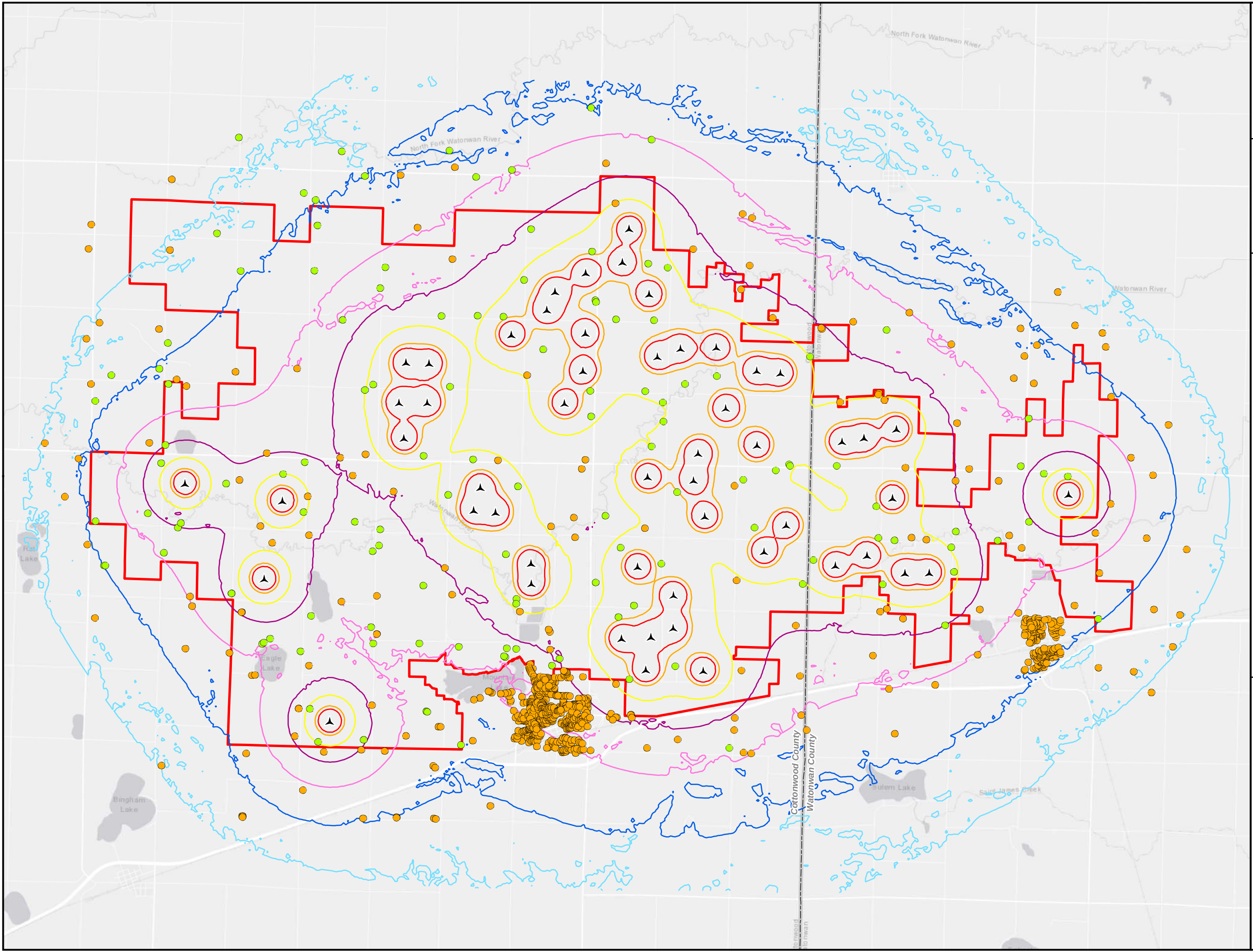
Big Bend Wind Project

Cottonwood and Watonwan Counties, Minnesota



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Date: (9/16/2021) Source: Z:\Clients\VA\pexibig_Bend\Site_Permit\Figures\Fig06_BB_Public_Land_and_Recreation.mxd



Cottonwood County Watonwan County Minnesota

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Miles
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N

Data Source: Apex Energy, US Census, MDOT, FSA 2017 Imagery

▲ N163 Proposed Turbine

▭ Project Area Boundary

Participant

- Non-Participating (within 1 mile of Project Area)
- Participating (within 1 mile of Project Area)

Sound Pressure Levels (Turbine Only)

- 20 dBA
- 25 dBA
- 30 dBA
- 35 dBA
- 40 dBA
- 45 dBA
- 47 dBA

*Turbines not to scale

Figure 7a
Sound/Noise
Nordex N-163

Big Bend Wind Project

Cottonwood and Watonwan Counties, Minnesota

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WIND

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