










FIGURE 8.1-1
Sound
G97 Turbine


LEGEND

-  Project Area
-  Turbines (G97)
-  Receptor
-  Noise Monitoring Locations

Decibel Level (dB)

-  35
-  40
-  45
-  50
-  55

1
Miles



NAD 1983 UTM Zone 15N

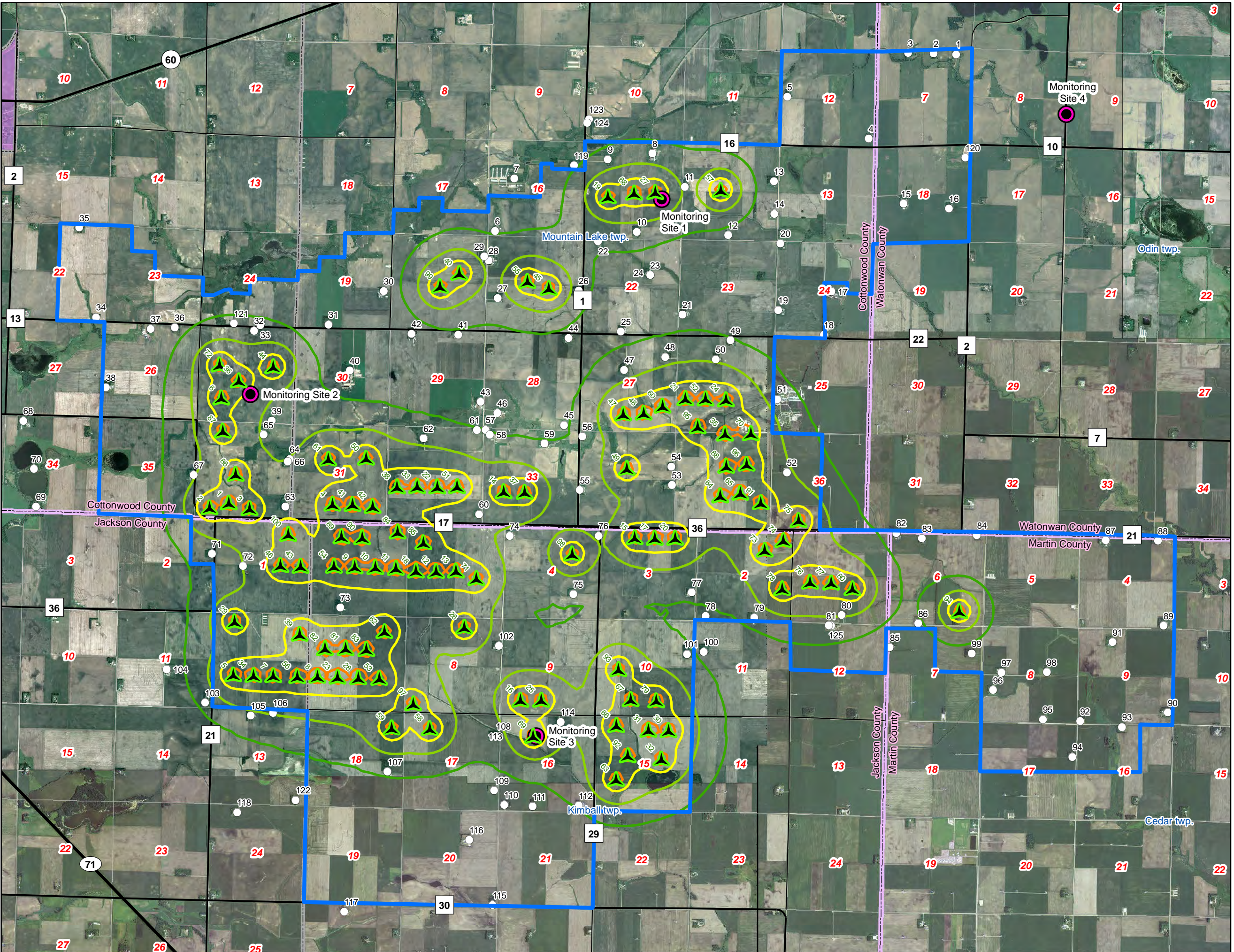
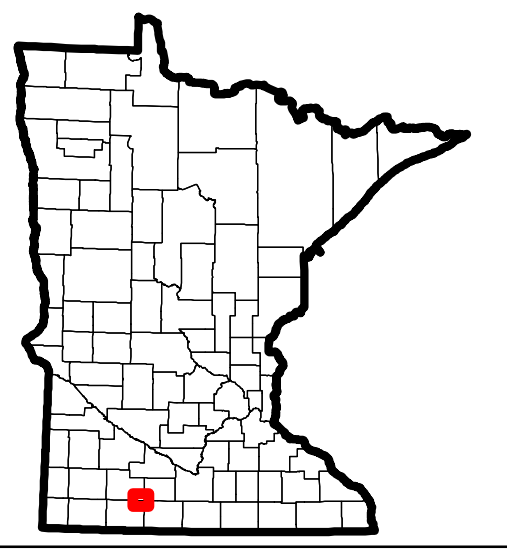











FIGURE 8.1-2
Sound
V110 Turbine


LEGEND

-  Project Area
-  Turbines (V110)
-  Receptor
-  Noise Monitoring Locations

Decibel Level (dB)

-  35
-  40
-  45
-  50
-  55

1
Miles



NAD 1983 UTM Zone 15N

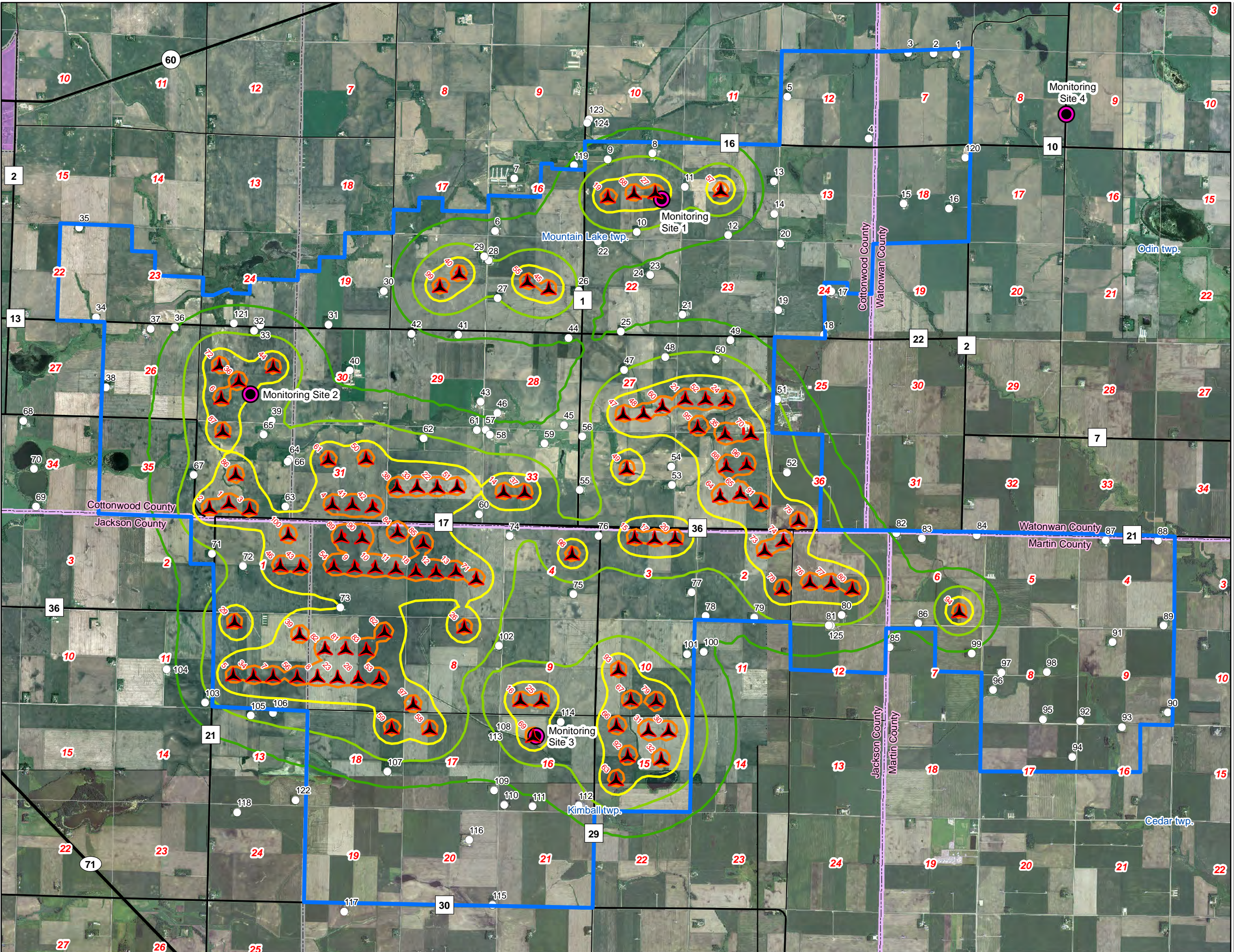
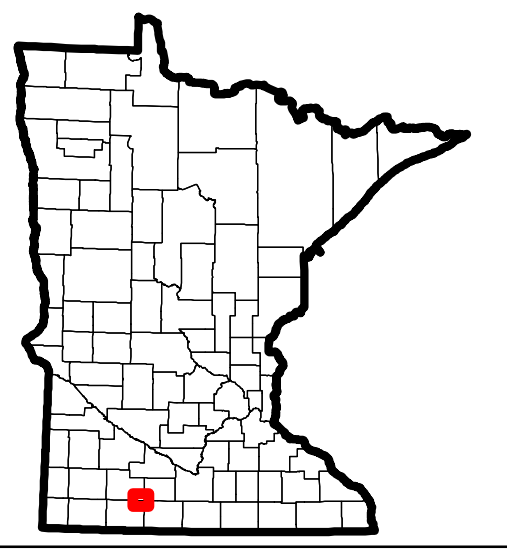









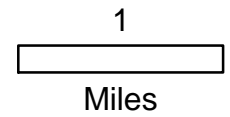


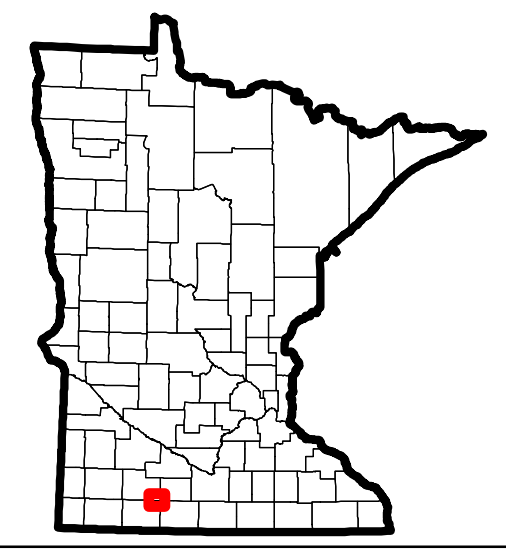
FIGURE 8.1-3
Sound
GE87 Turbine

LEGEND

-  Project Area
 -  Turbines (GE87)
 -  Receptor
 -  Noise Monitoring Locations
- Decibel Level (dB)**
-  35
 -  40
 -  45
 -  50
 -  55



NAD 1983 UTM Zone 15N



SOURCES:
Geronimo Energy,
Ventyx, WSB,
NAIP

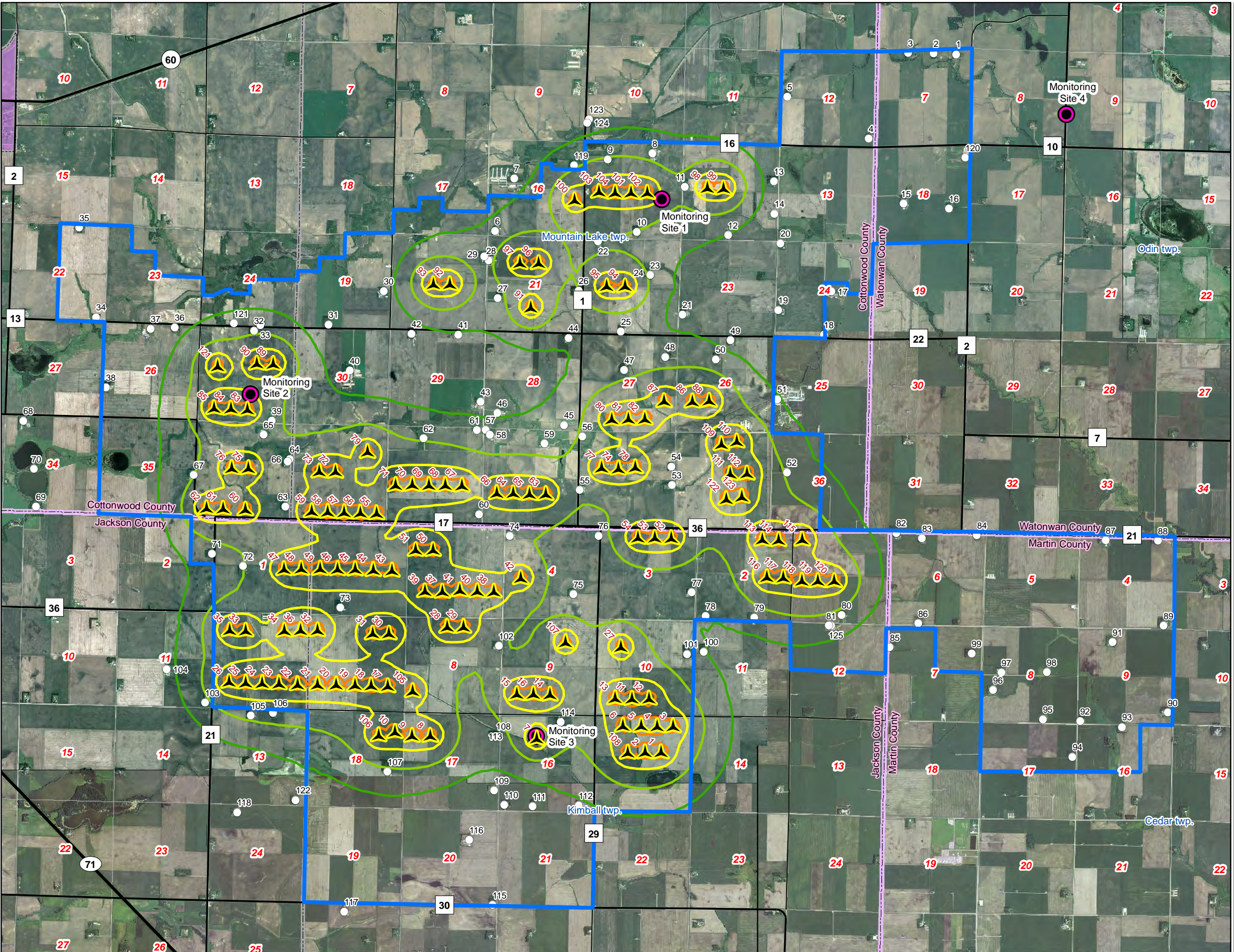









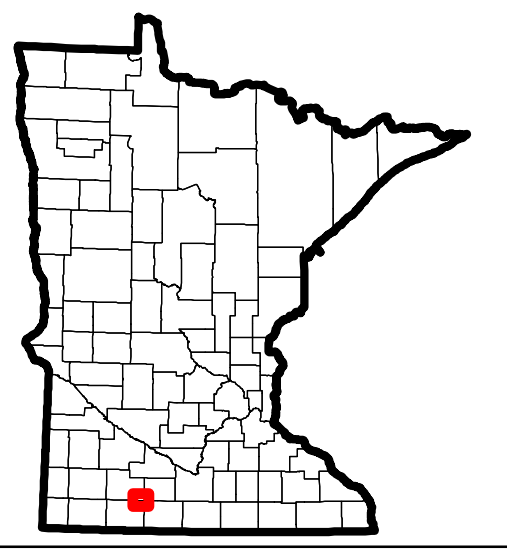
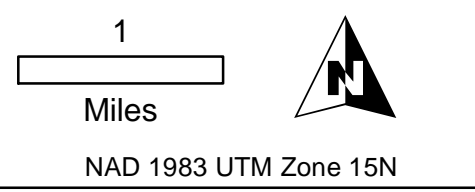


FIGURE 8.1-4
Sound
GW87 Turbine

LEGEND

-  Project Area
 -  Turbines (GW87)
 -  Receptor
 -  Noise Monitoring Locations
- Decibel Level (dB)**
-  35
 -  40
 -  45
 -  50
 -  55



SOURCES:
Geronimo Energy,
Ventyx, WSB,
NAIP

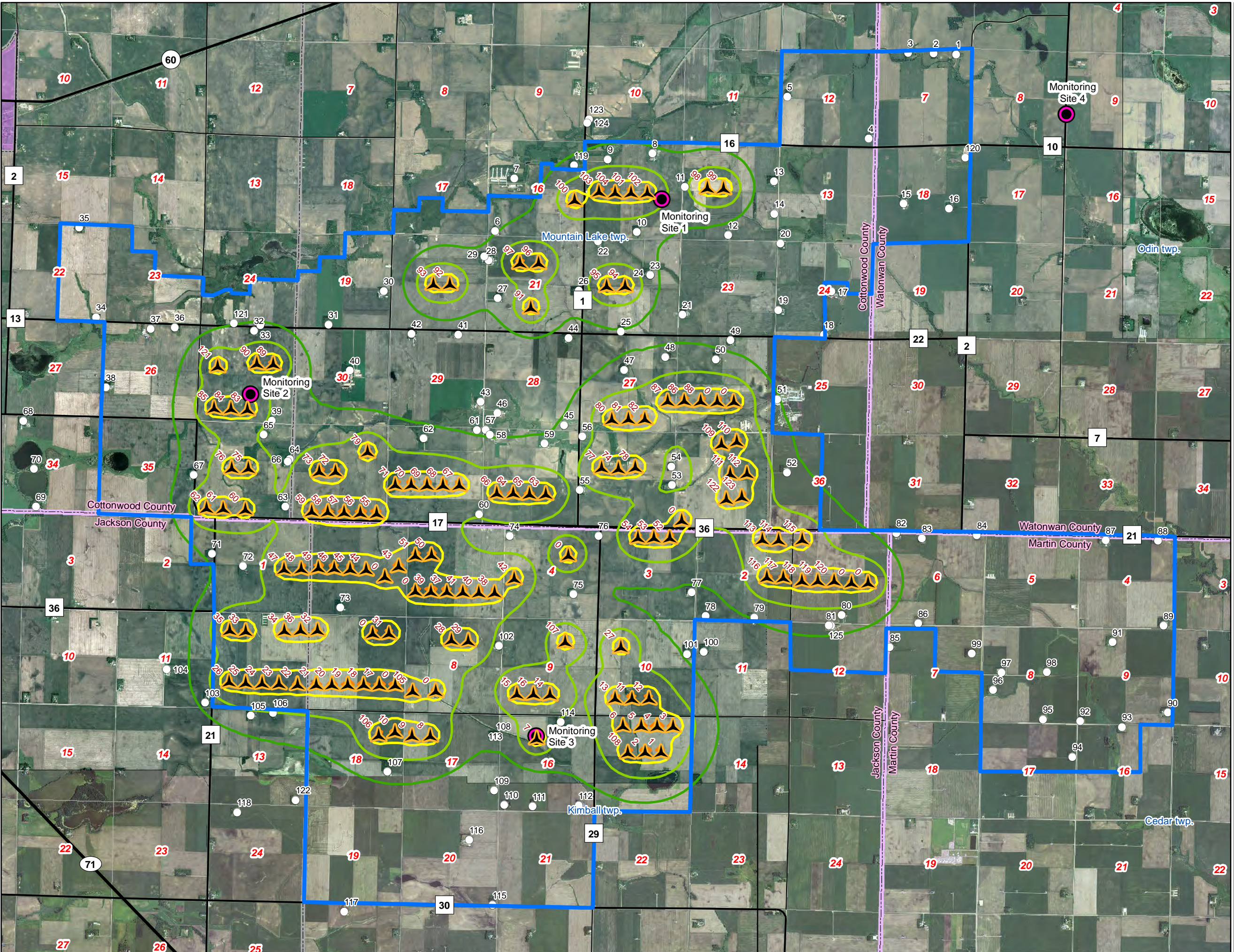


Figure 8.2 –Photos of Typical Landscapes Within the Project Area



Figure 8.2 –Photos of Typical Landscapes Within the Project Area



Figure 8.2 –Photos of Typical Landscapes Within the Project Area



Figure 8.2 –Photos of Typical Landscapes Within the Project Area



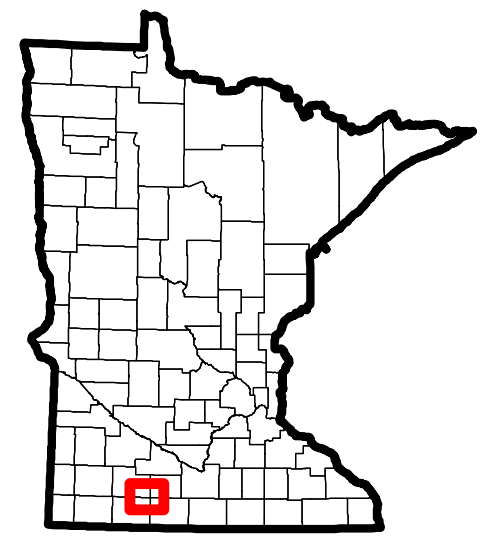
FIGURE 8.3
Public Land Ownership
and Recreation

LEGEND

- Project Area
- State Trails
- Snowmobile Trails
- Wildlife Management Areas
- Waterfowl Production Areas
- State Park
- State Forest
- Scientific & Natural Area
- City/Town Boundary

2.5
Miles

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SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
NatGeo

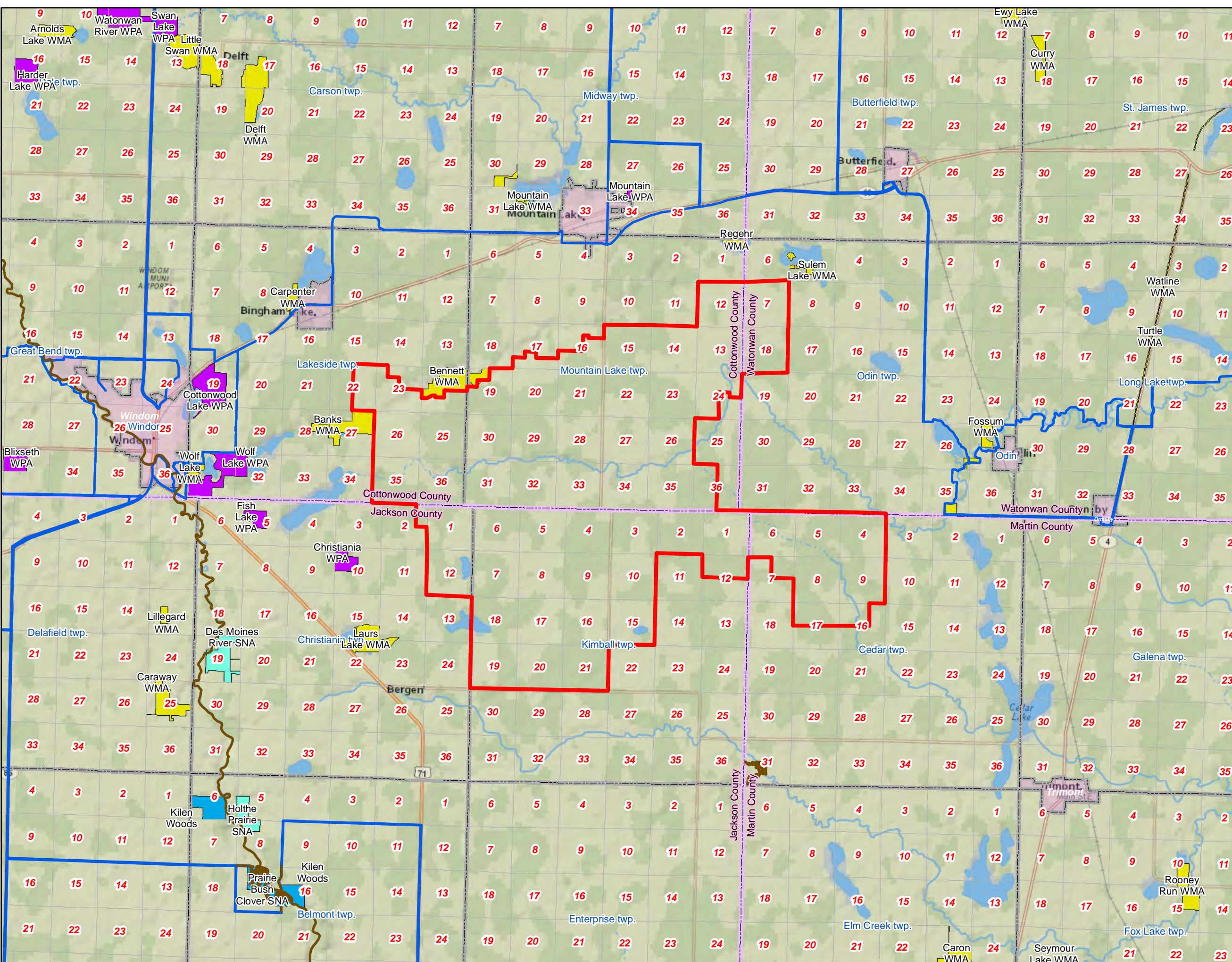


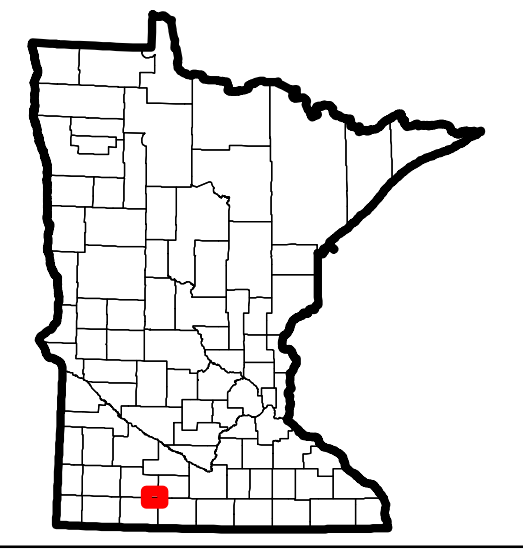
FIGURE 8.4 Land Cover

LEGEND

- Project Area
- LAND COVER**
- Cropland
- Grassland
- Emergent Wetland
- Upland Forest
- Open Water
- Developed
- Barren Land

1
Miles

NAD 1983 UTM Zone 15N



SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
PWI, AES

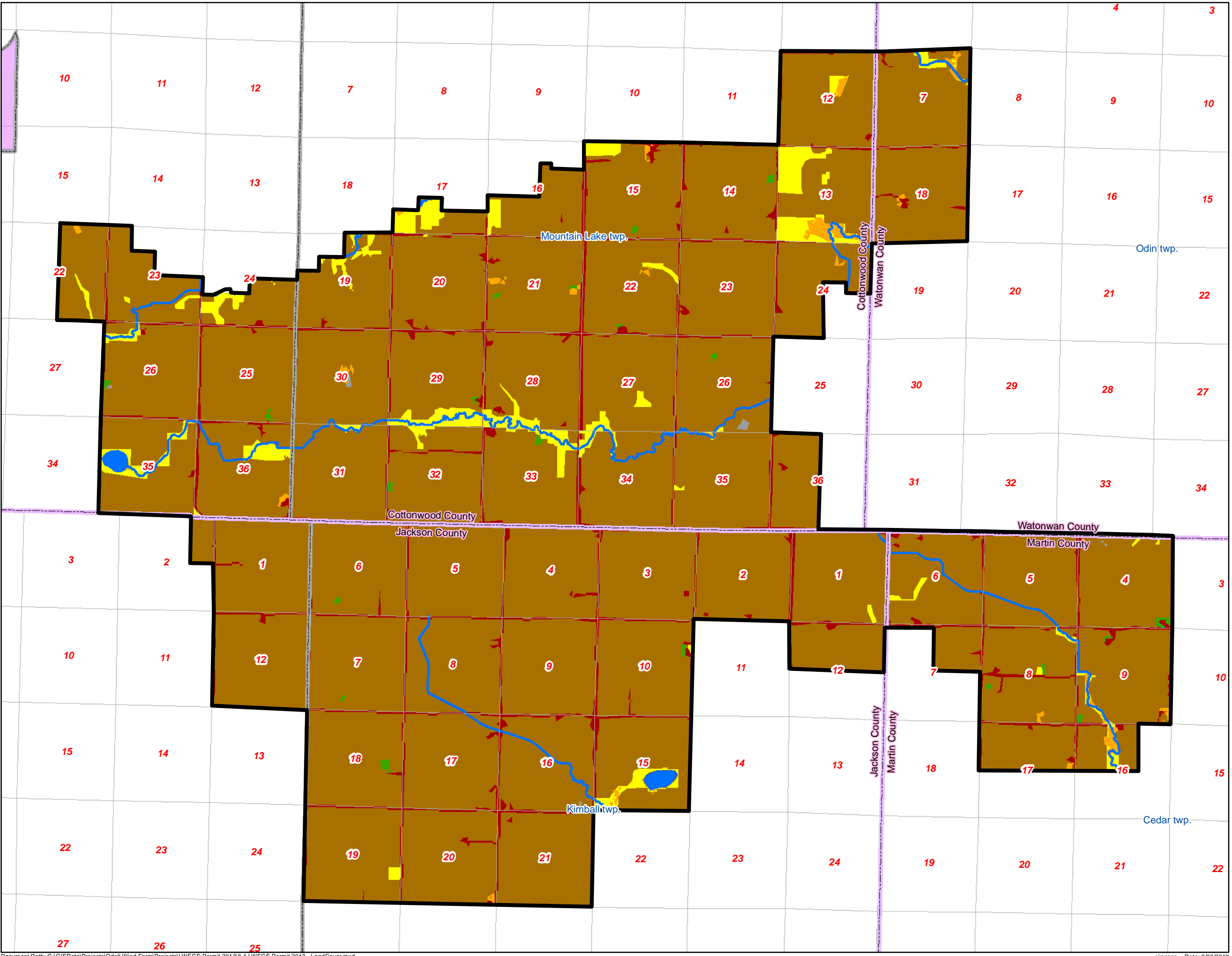








FIGURE 8.5-1
G97
Topographic
Map

LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (G97)
-  Project Substation
-  Access Roads
-  Collector Lines

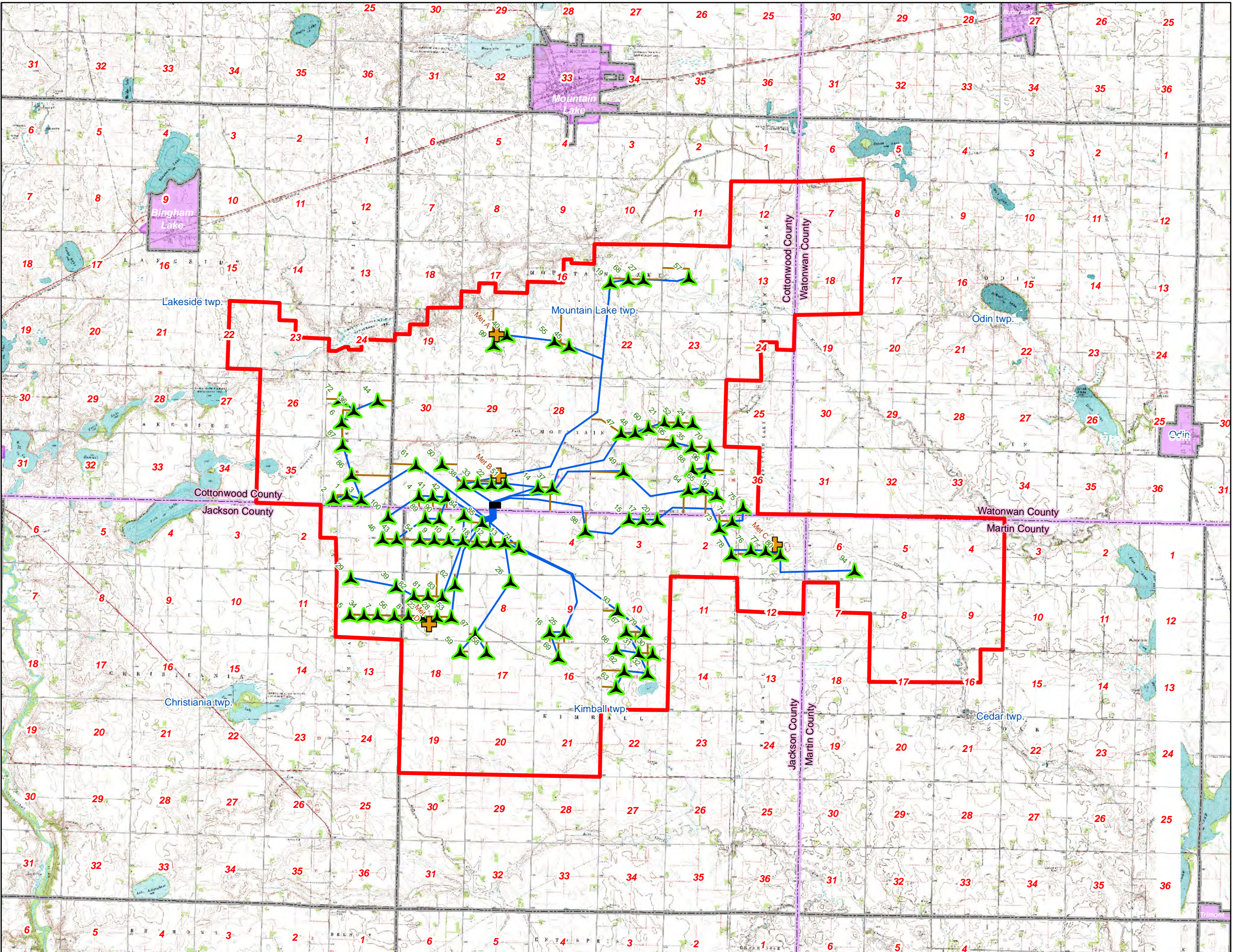
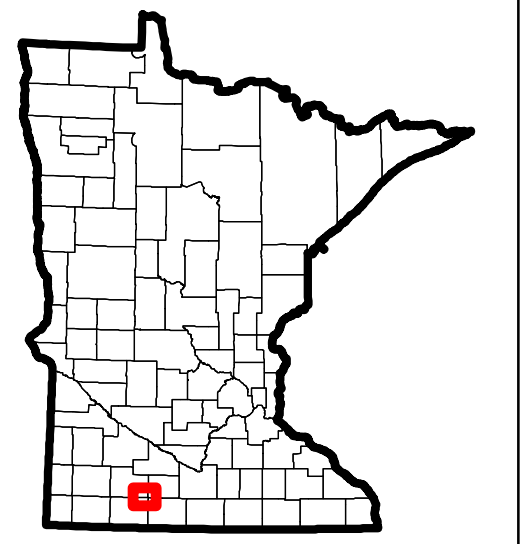
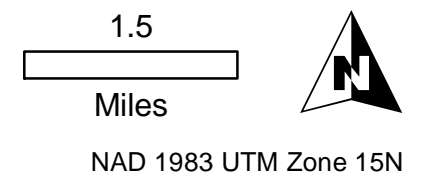









FIGURE 8.5-2
V110
Topographic
Map

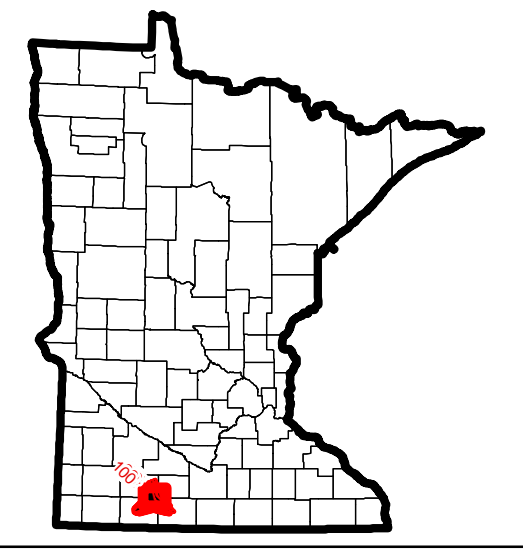
LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (V110)
-  Project Substation
-  Access Roads
-  Collector Lines

1.5
Miles



NAD 1983 UTM Zone 15N



SOURCES:
Geronimo Energy,
Ventyx, USGS

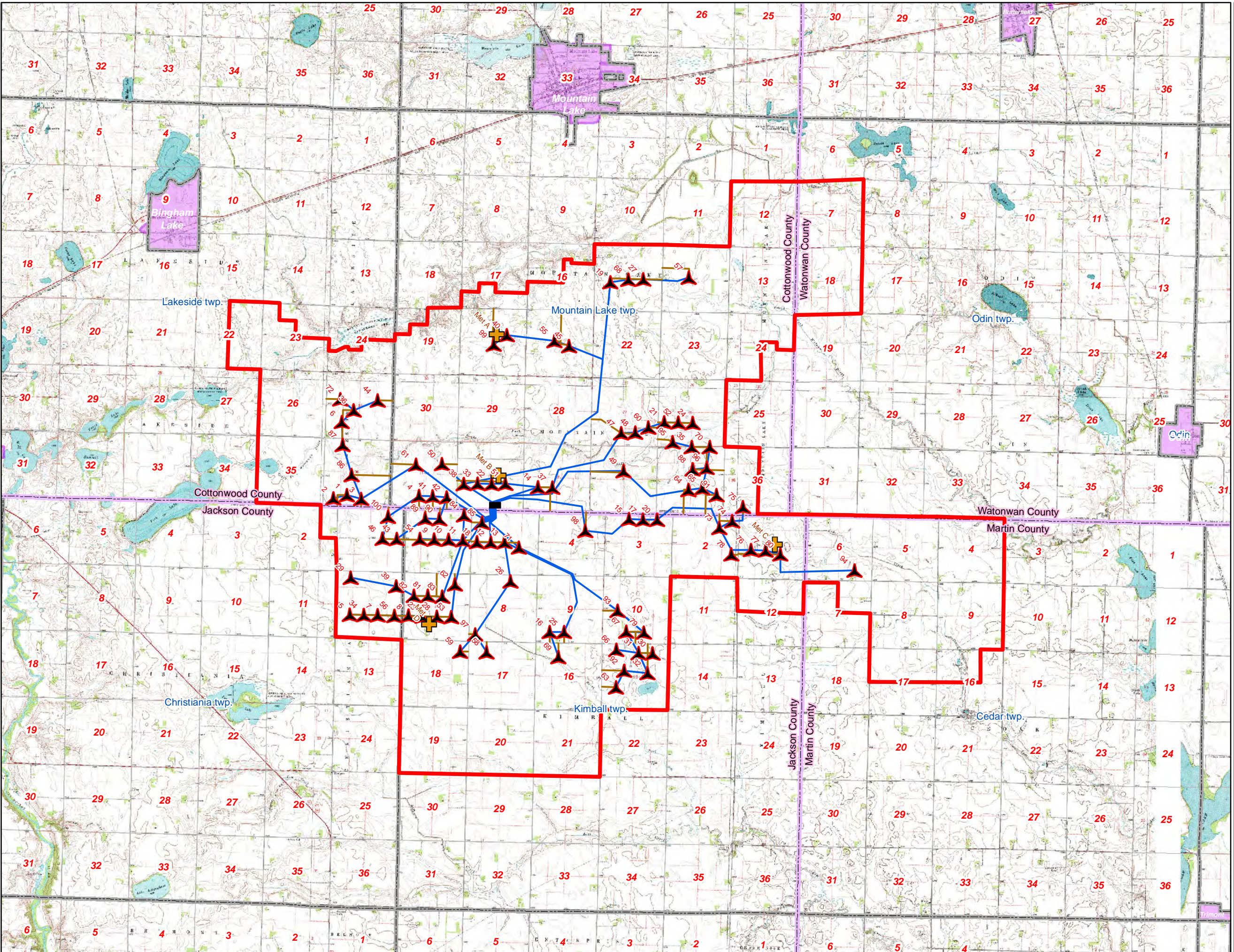









FIGURE 8.5-3
GE87
Topographic
Map

LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (GE87)
-  Project Substation
-  Access Roads
-  Collector Lines

1.5
Miles



NAD 1983 UTM Zone 15N

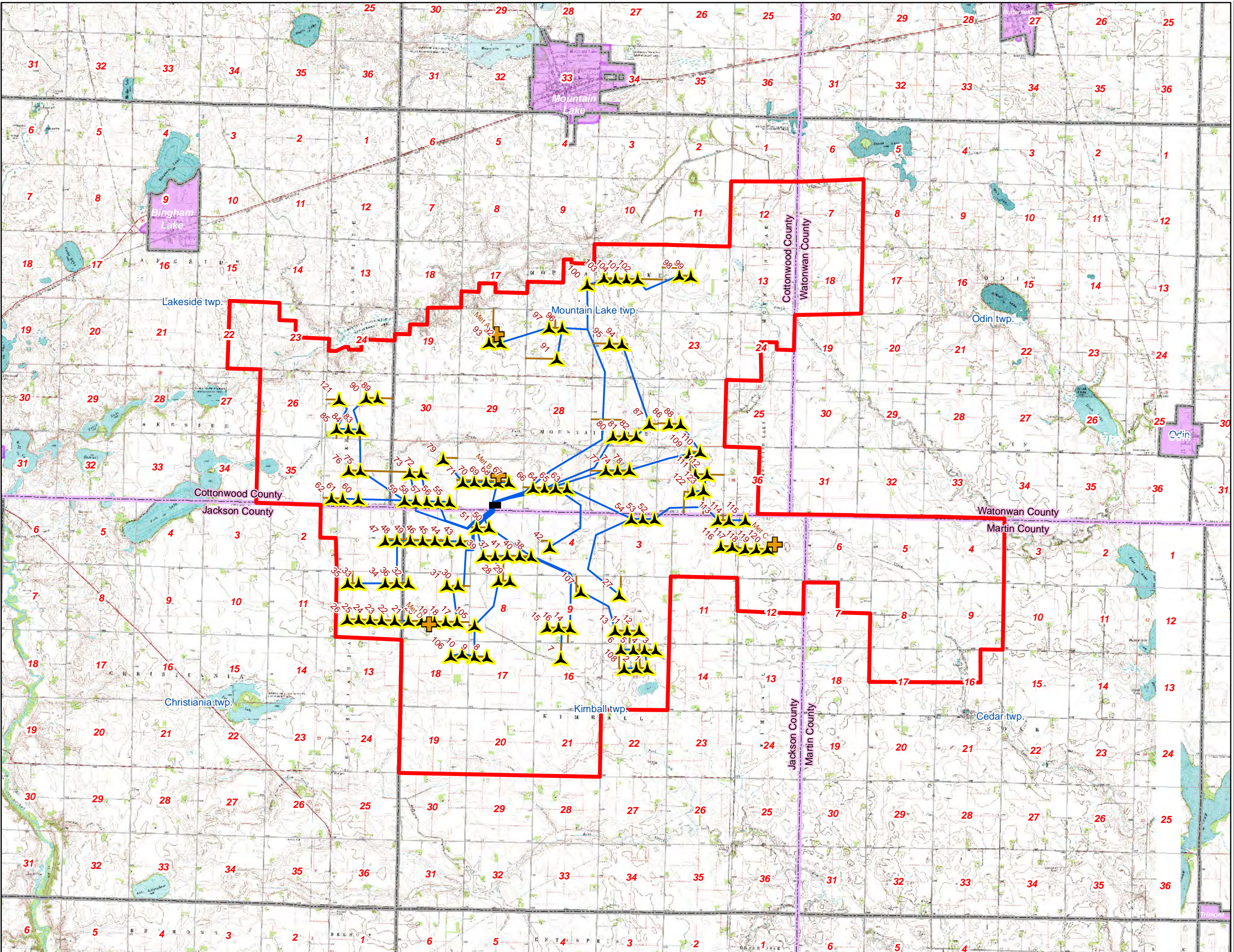
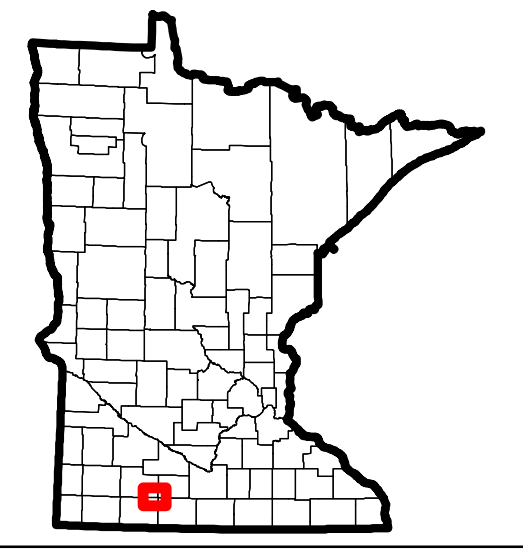






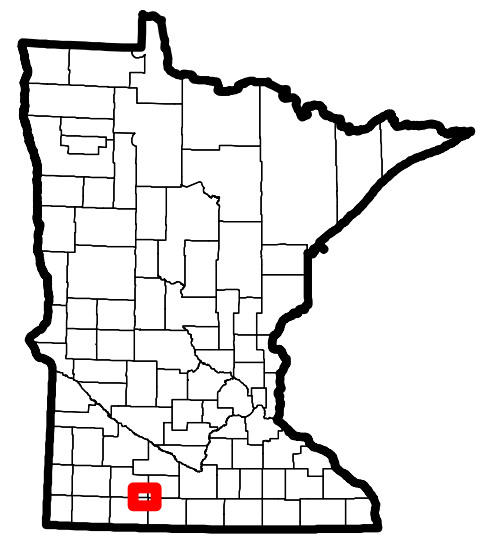
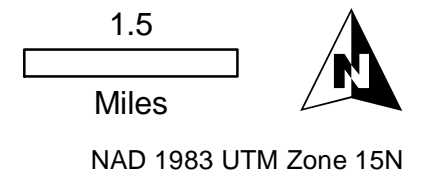


FIGURE 8.5-4
GW87
Topographic
Map

LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (GW87)
-  Project Substation
-  Access Roads
-  Collector Lines



SOURCES:
Geronimo Energy,
Ventyx, USGS

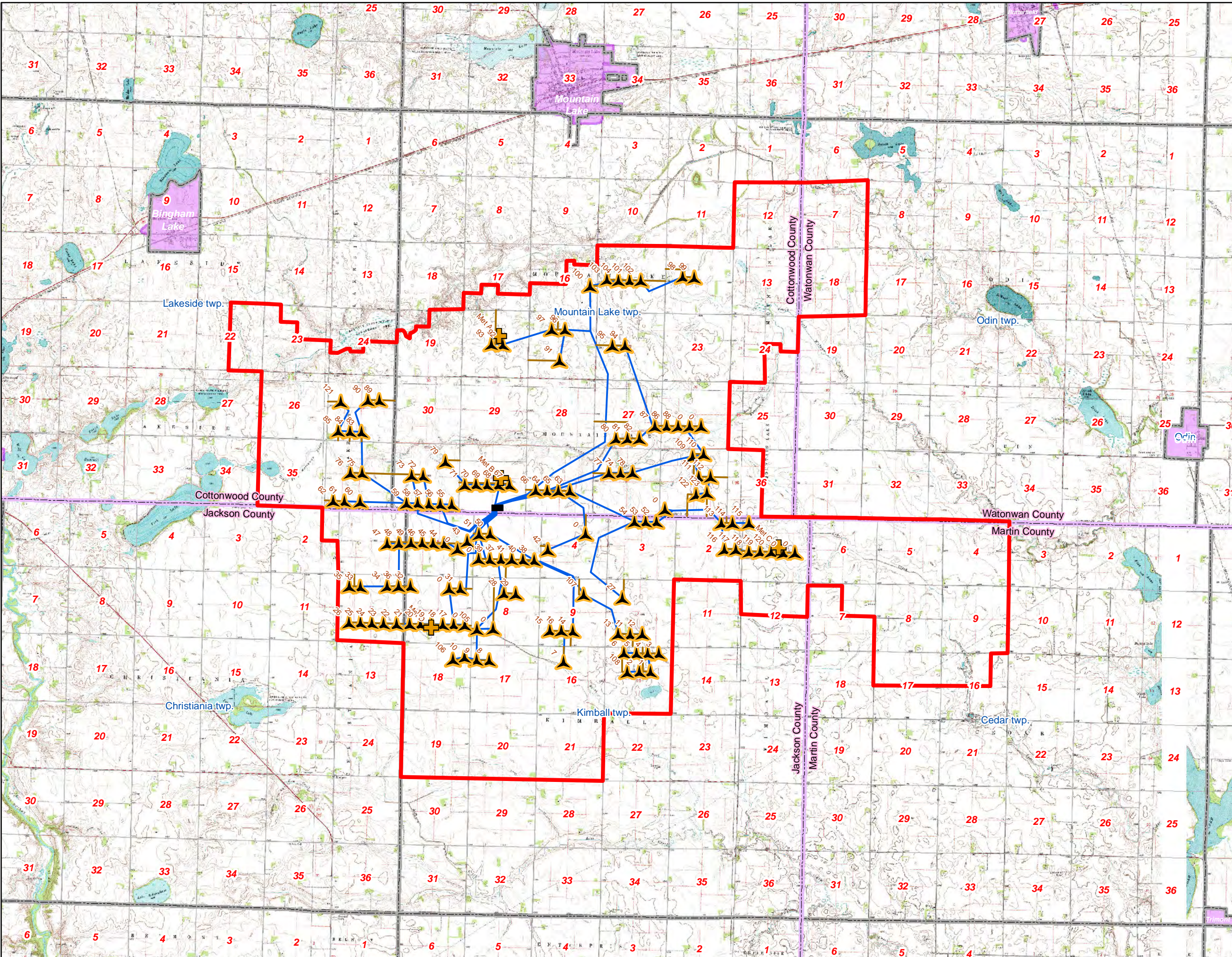



FIGURE 8.6-1
Soils - G97

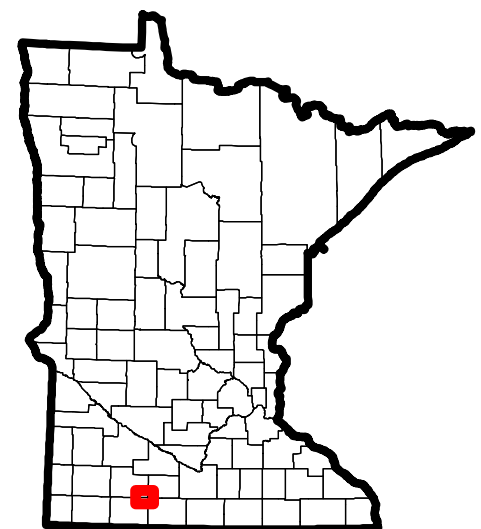
LEGEND

- Project Area
 - + Permanent Met Towers
 - ▲ Turbines (G97)
 - Project Substation
 - Access Roads
 - Collector Lines
- Soils**
- Coarse-loamy/sandy
 - Fine-loamy

1
Miles



NAD 1983 UTM Zone 15N











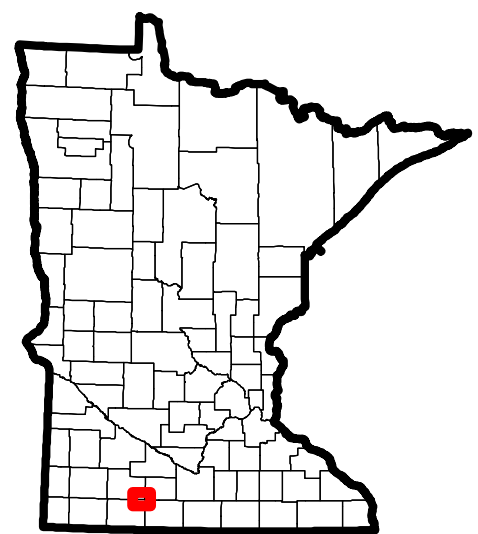
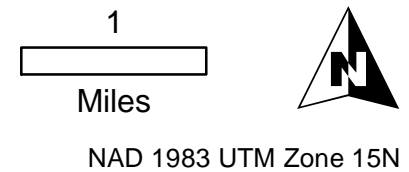
SOURCES:
Geronimo Energy,
Ventyx, MNDNR



FIGURE 8.6-2
Soils - V110

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (V110)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
- Soils**
-  Coarse-loamy/sandy
 -  Fine-loamy



SOURCES:
Geronimo Energy,
Ventyx, MNDNR

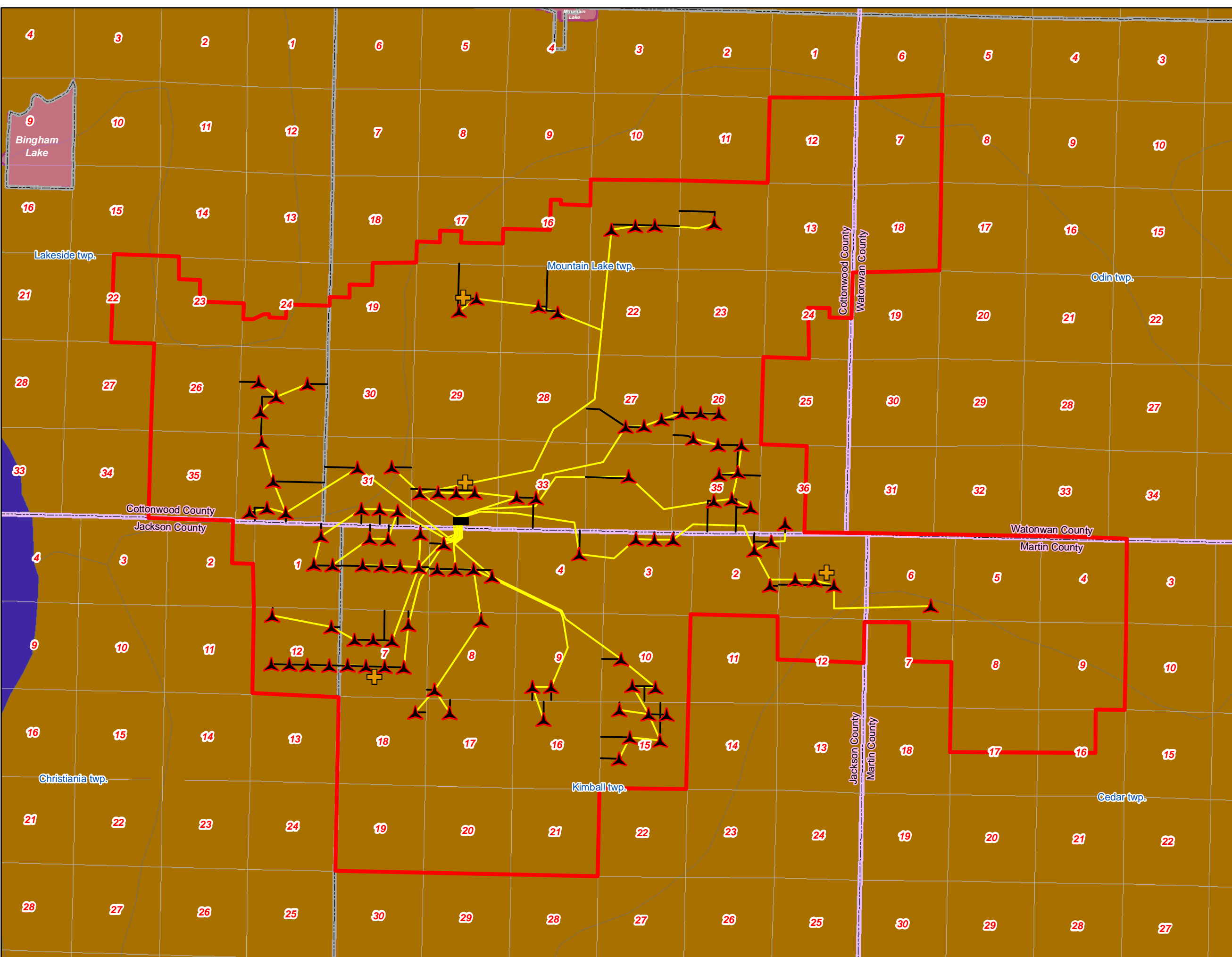











FIGURE 8.6-3
Soils - GE87

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (GE87)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
- Soils**
-  Coarse-loamy/sandy
 -  Fine-loamy

1
Miles



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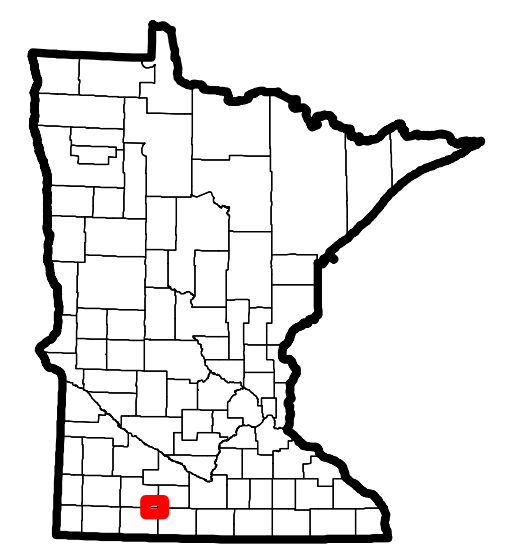











FIGURE 8.6-4
Soils - GW87

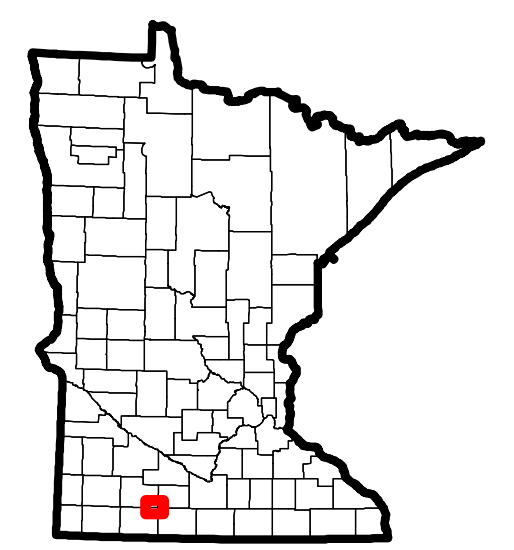
LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (GW87)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
- Soils**
-  Coarse-loamy/sandy
 -  Fine-loamy

1
Miles



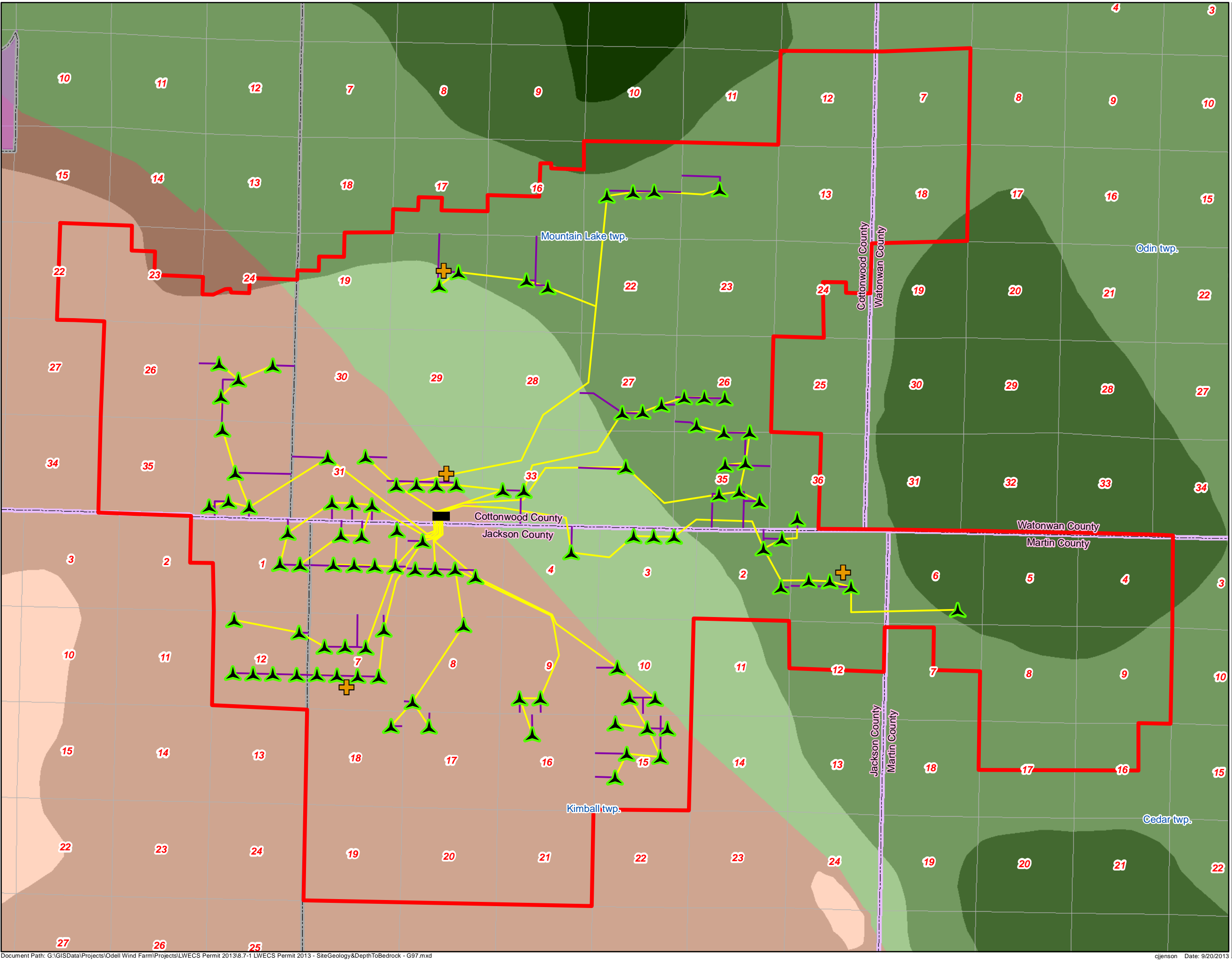
NAD 1983 UTM Zone 15N

















SOURCES:
Geronimo Energy,
Ventyx, MNDNR




FIGURE 8.7-1
G97
Site Geology and
Depth to Bedrock



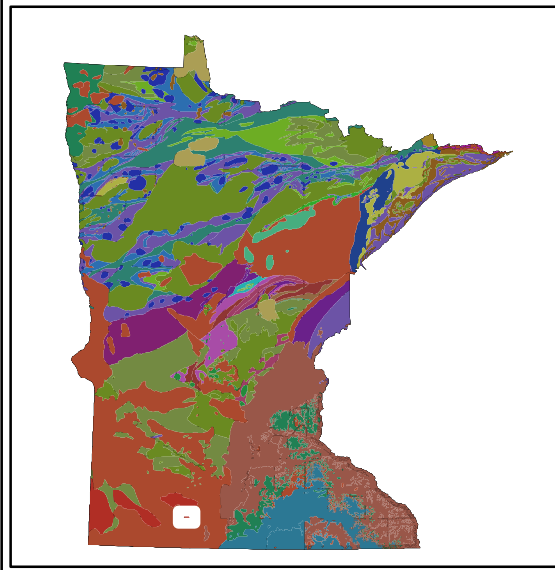
LEGEND

	Project Area		Depth to Bedrock
	Permanent Met Towers		< 300 ft
	Turbines (G97)		301 - 600 ft
	Project Substation		601 - 900 ft
	Access Roads		901 - 1,200 ft
	Collector Lines		> 1,201 ft
	Quartzite		
	Shale		

1
Miles



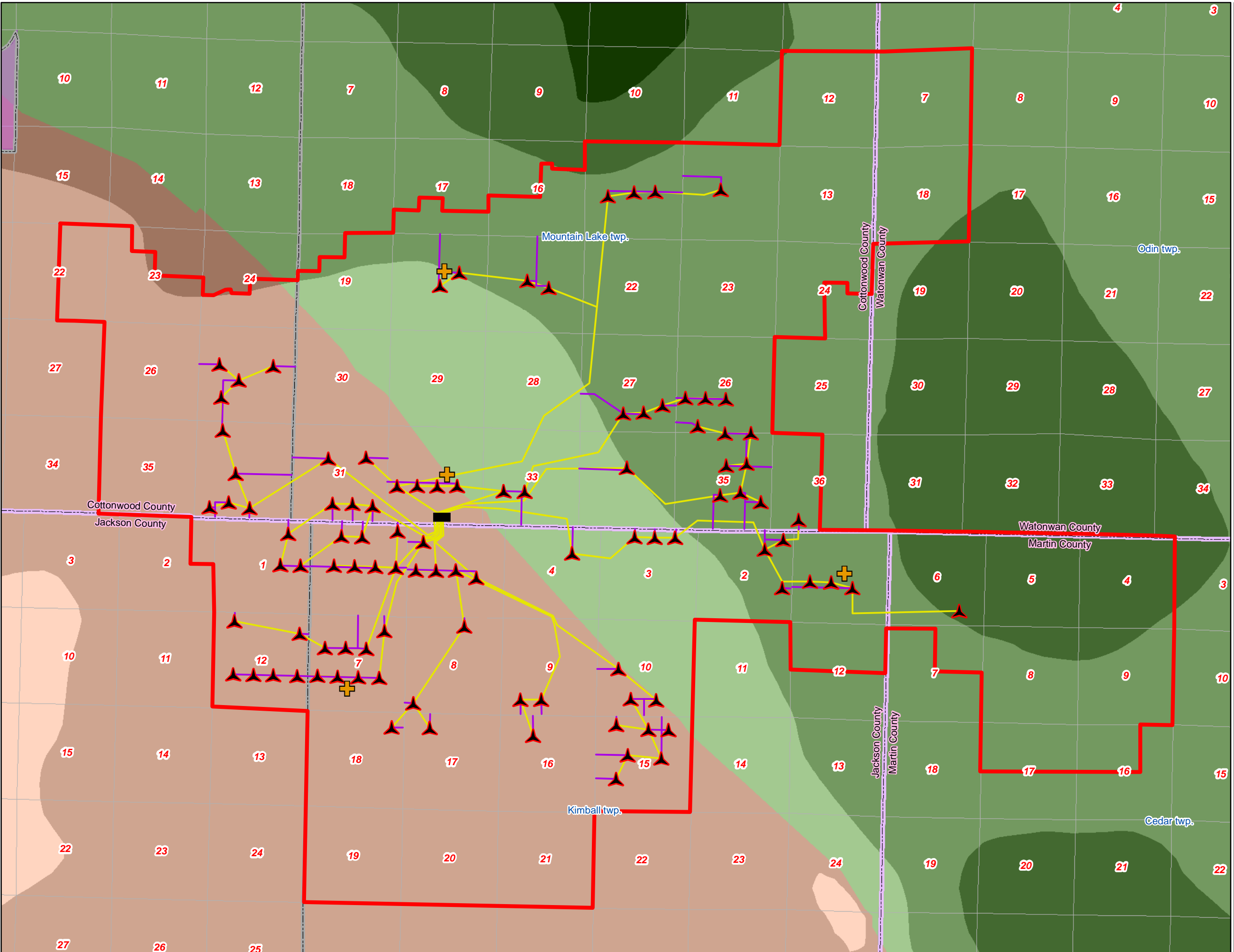
NAD 1983 UTM Zone 15N

















SOURCES:
Geronimo Energy,
Ventyx, MNGEO




FIGURE 8.7-2
V110
Site Geology and
Depth to Bedrock



LEGEND

	Project Area		Depth to Bedrock
	Permanent Met Towers		< 300 ft
	Turbines (V110)		301 - 600 ft
	Project Substation		601 - 900 ft
	Access Roads		901 - 1,200 ft
	Collector Lines		> 1,201 ft
	Quartzite		
	Shale		

1
Miles



NAD 1983 UTM Zone 15N

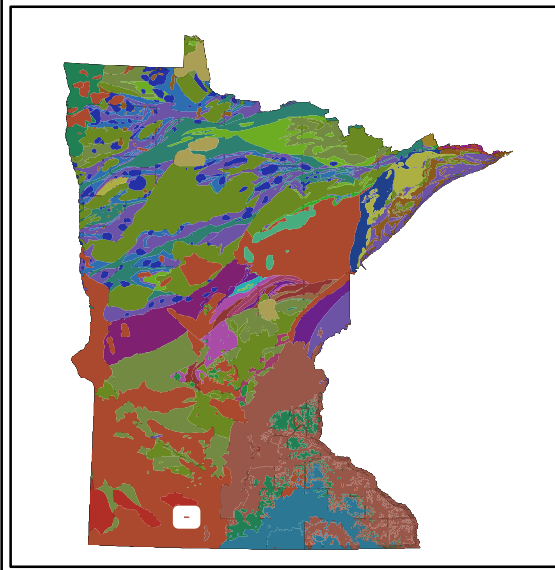














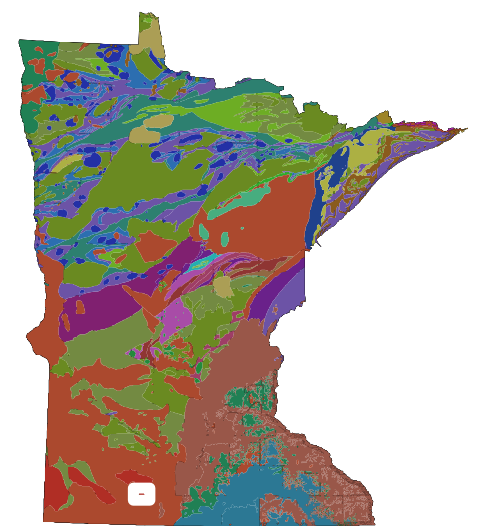
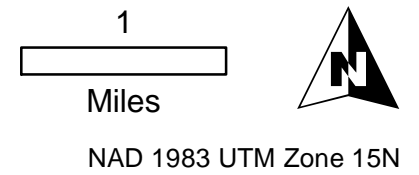


FIGURE 8.7-3
GE87
Site Geology and
Depth to Bedrock

LEGEND

	Project Area		Depth to Bedrock
	Permanent Met Towers		< 300 ft
	Turbines (GE87)		301 - 600 ft
	Project Substation		601 - 900 ft
	Access Roads		901 - 1,200 ft
	Collector Lines		> 1,201 ft
	Quartzite		
	Shale		



SOURCES:
Geronimo Energy,
Ventyx, MNGEO

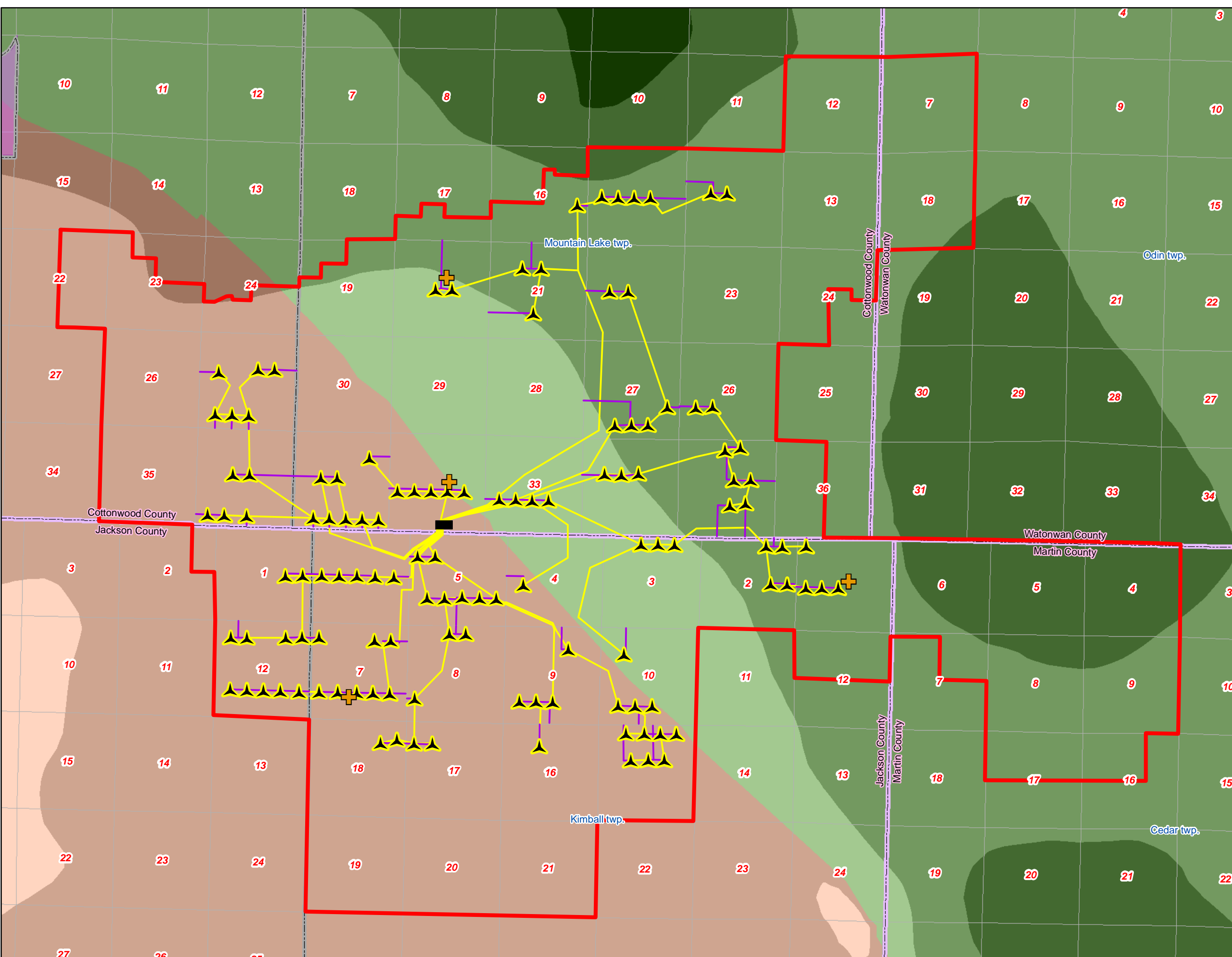














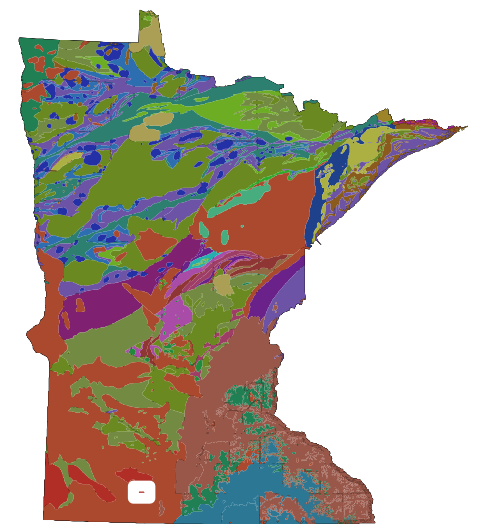
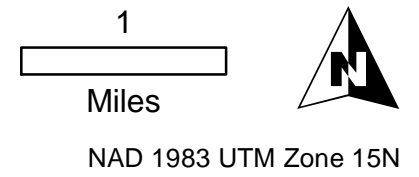


FIGURE 8.7-4
GW87
Site Geology and
Depth to Bedrock

LEGEND

	Project Area		Depth to Bedrock
	Permanent Met Towers		< 300 ft
	Turbines (GW87)		301 - 600 ft
	Project Substation		601 - 900 ft
	Access Roads		901 - 1,200 ft
	Collector Lines		> 1,201 ft
	Quartzite		
	Shale		



SOURCES:
Geronimo Energy,
Ventyx, MNGEO

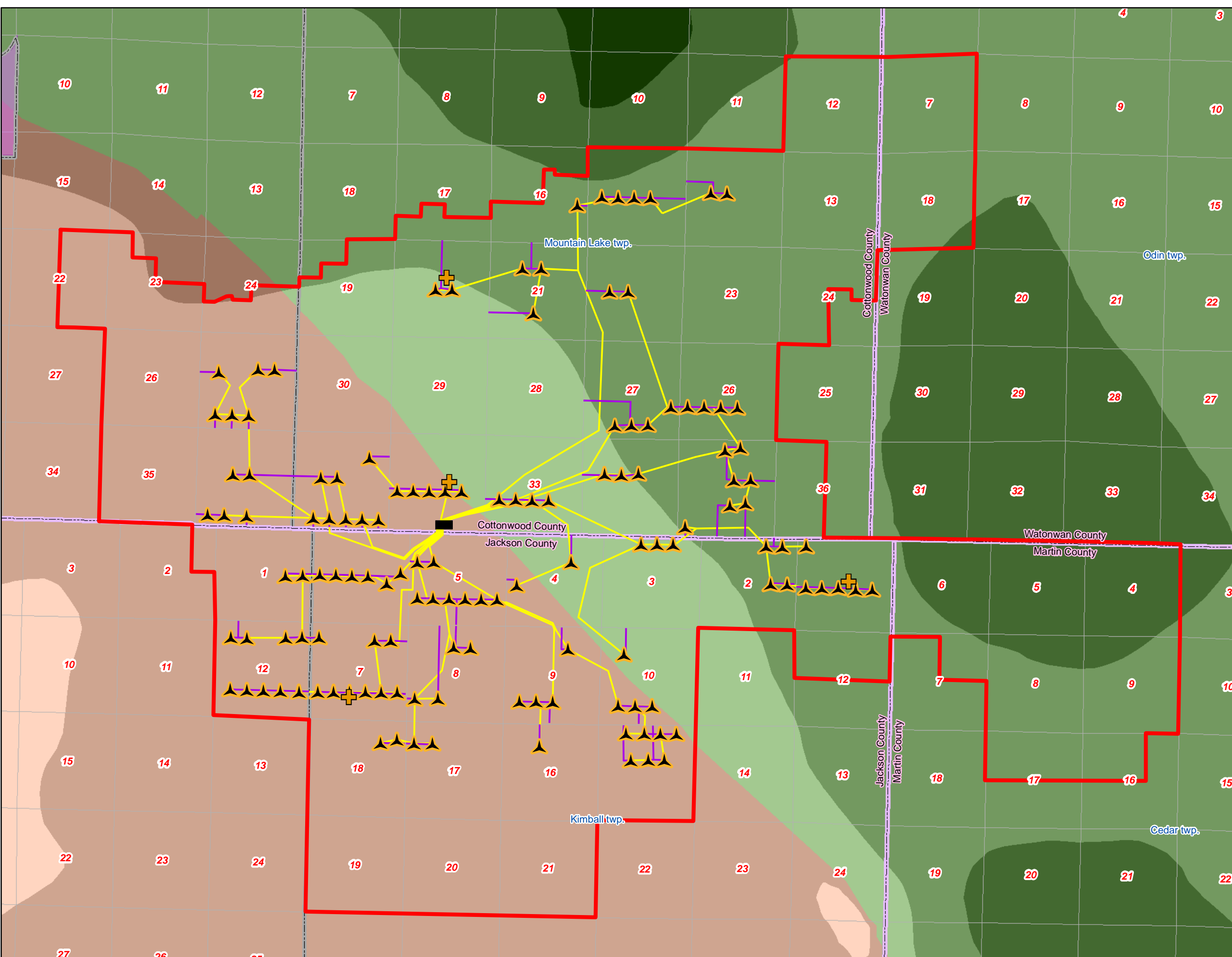








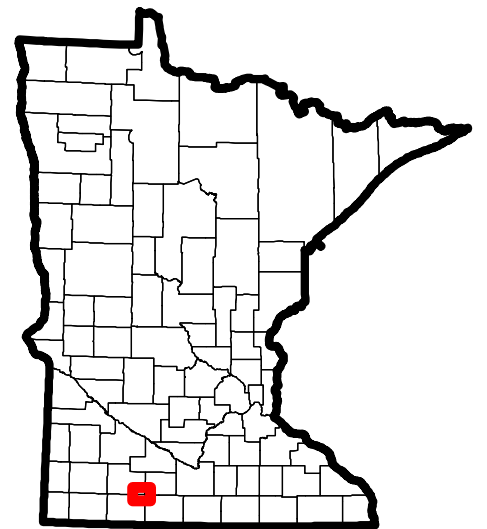
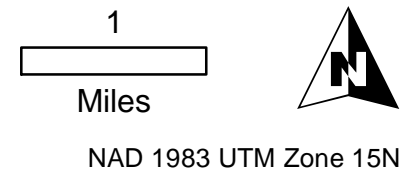


FIGURE 8.8
Surface Waters

LEGEND

-  Project Area
-  Lakes (USGS 24k)
- Public Waters Inventory (PWI)**
-  River
-  Perennial Stream
-  Intermittent Stream
-  Drainage Ditch
- Major Watersheds**
-  Blue Earth River Watershed
-  Watonwan River Watershed



SOURCES:
Geronimo Energy,
Ventyx, USGS,
MNDNR, NAIP

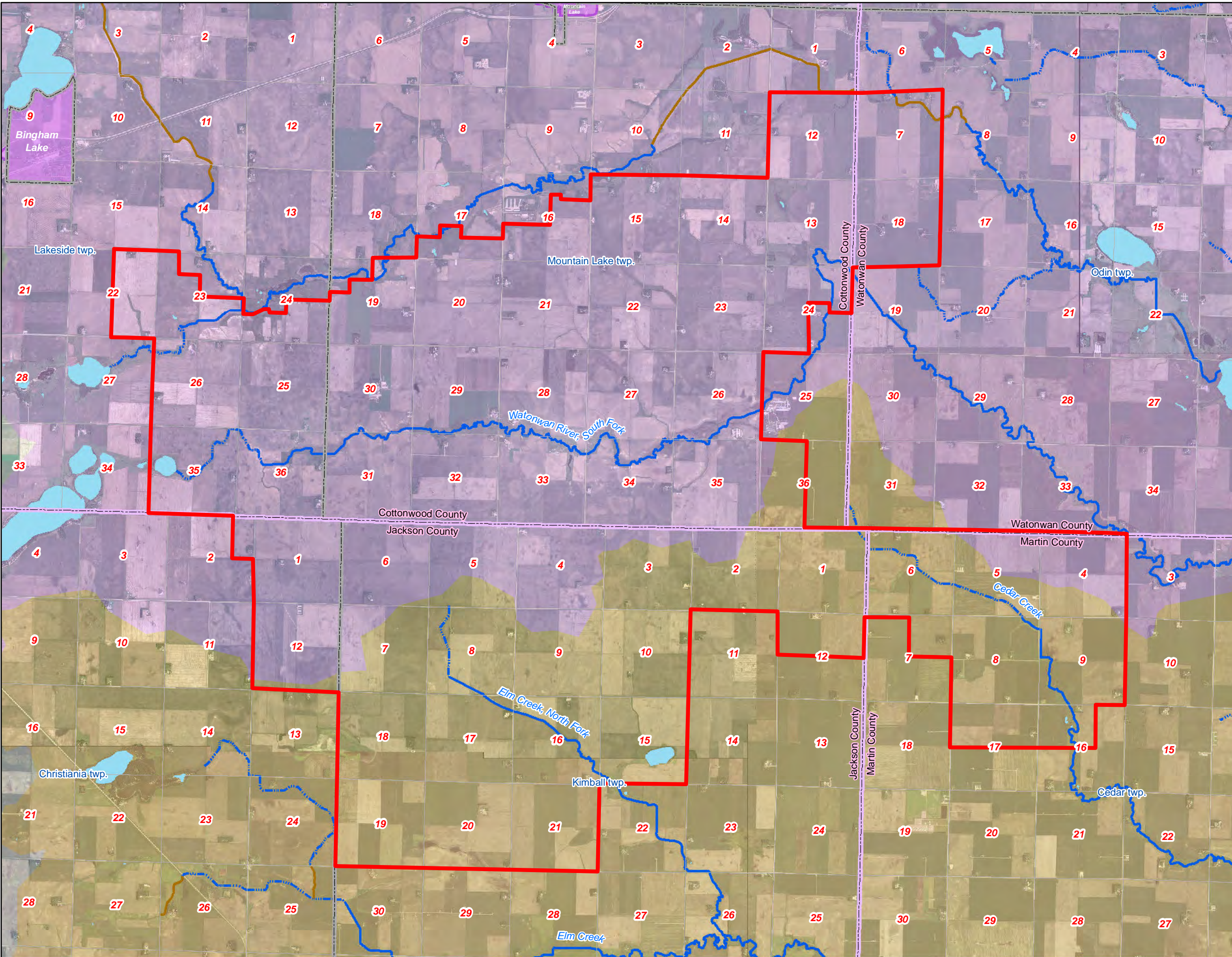
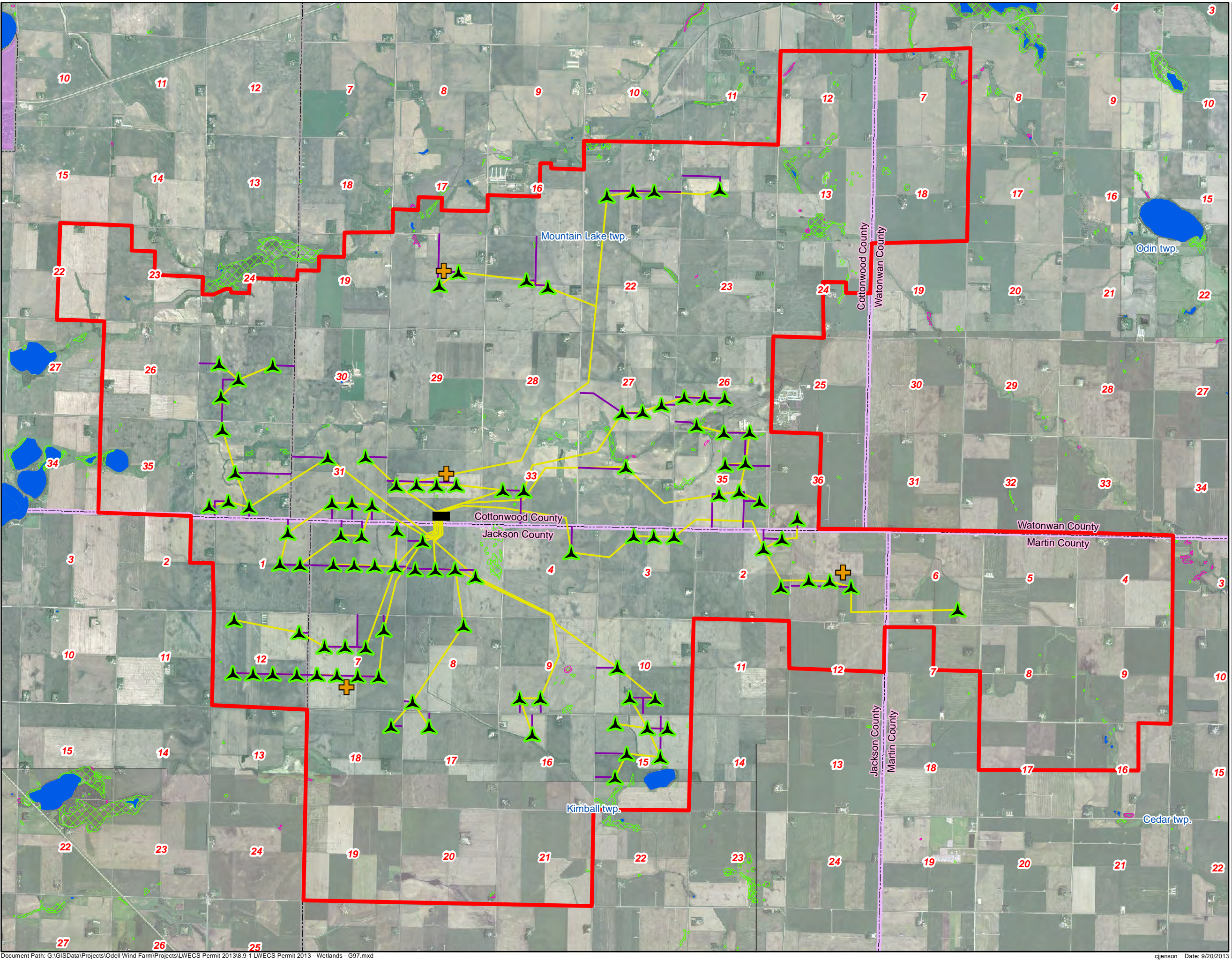













FIGURE 8.9-1
G97
Wetlands Inventory



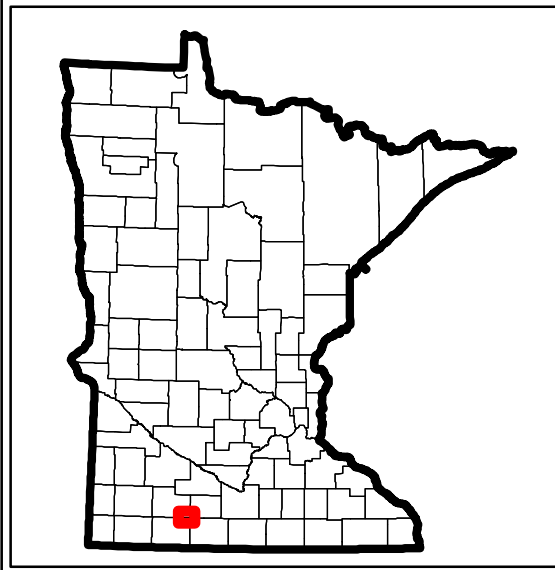
LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (G97)
-  Project Substation
-  Access Roads
-  Collector Lines
-  Emergent Wetland
-  Forested/Shrub Wetland
-  Riverine
-  Open Water

1
Miles



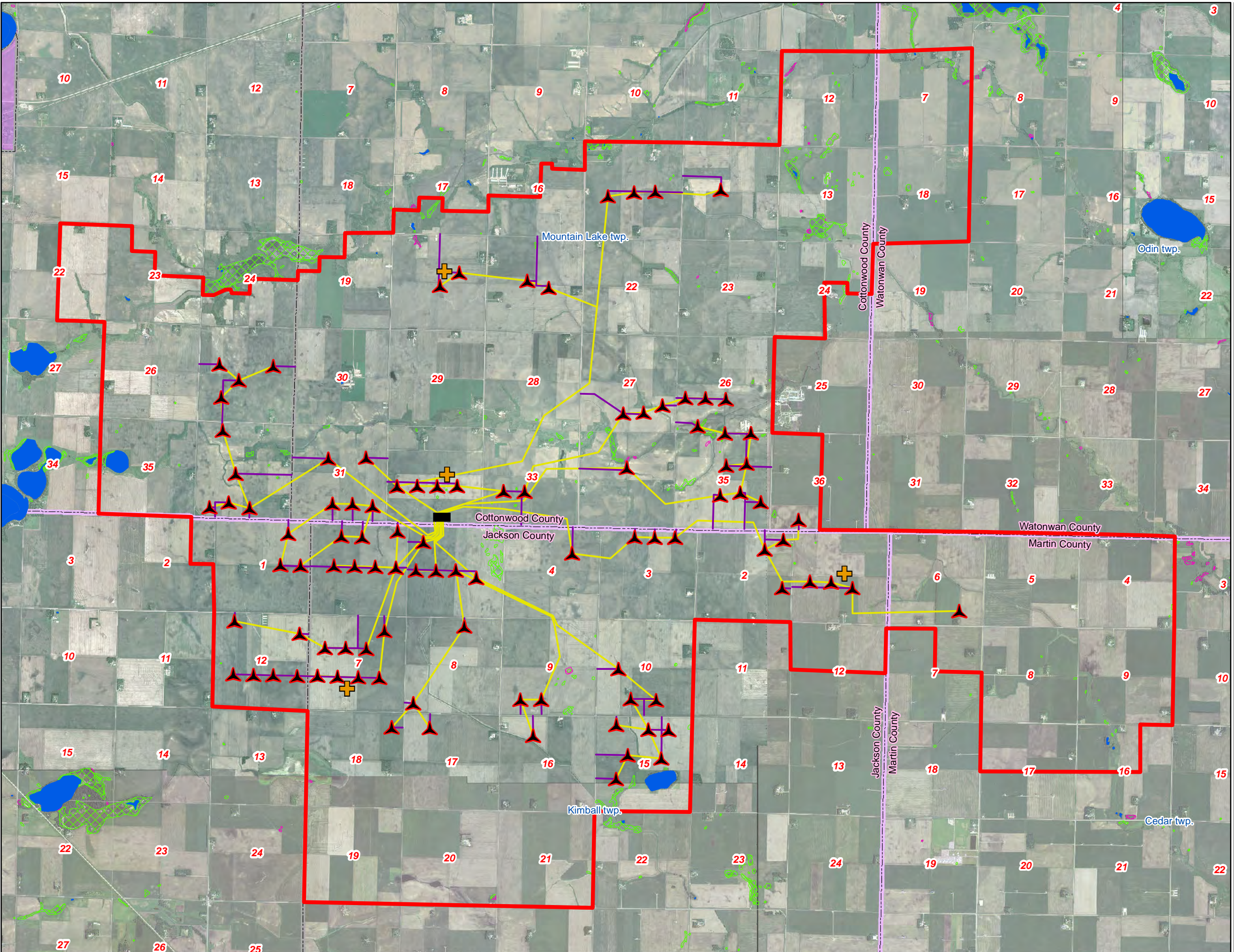
NAD 1983 UTM Zone 15N













SOURCES:
Geronimo Energy,
Ventyx, NAIP,
NWI




FIGURE 8.9-2
V110
Wetlands Inventory



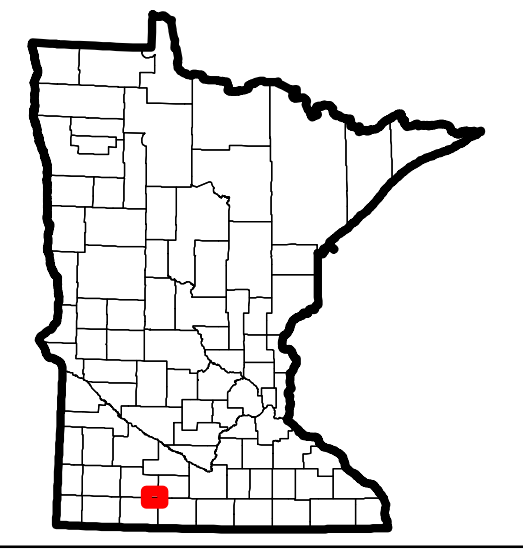
LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (V110)
-  Project Substation
-  Access Roads
-  Collector Lines
-  Emergent Wetland
-  Forested/Shrub Wetland
-  Riverine
-  Open Water

1
Miles



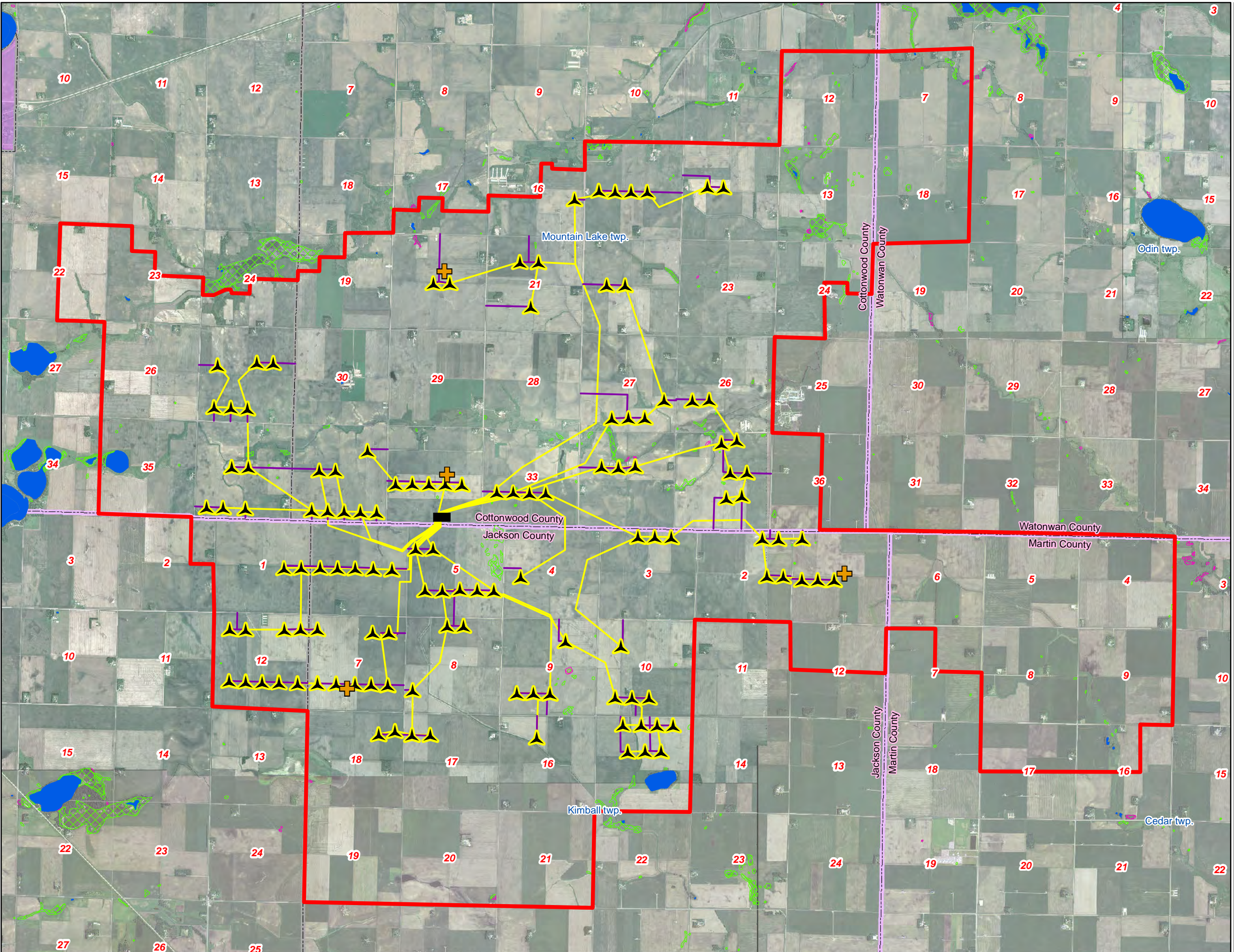
NAD 1983 UTM Zone 15N













SOURCES:
Geronimo Energy,
Ventyx, NAIP,
NWI




**FIGURE 8.9-3
GE87
Wetlands Inventory**



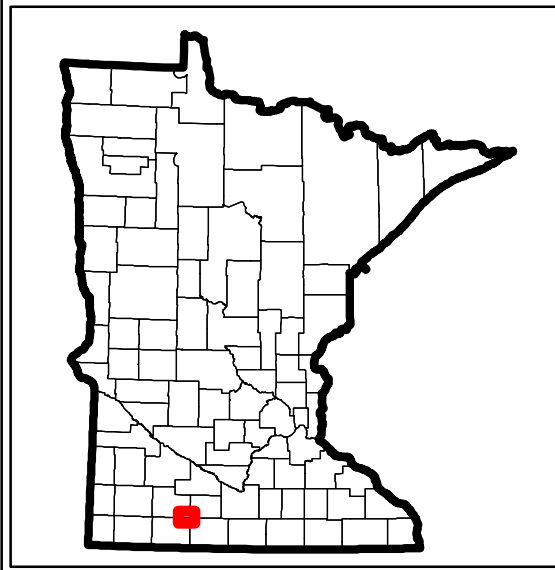
LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (GE87)
-  Project Substation
-  Access Roads
-  Collector Lines
-  Emergent Wetland
-  Forested/Shrub Wetland
-  Riverine
-  Open Water

1
Miles



NAD 1983 UTM Zone 15N













SOURCES:
Geronimo Energy,
Ventyx, NAIP,
NWI




**FIGURE 8.9-4
GW87
Wetlands Inventory**

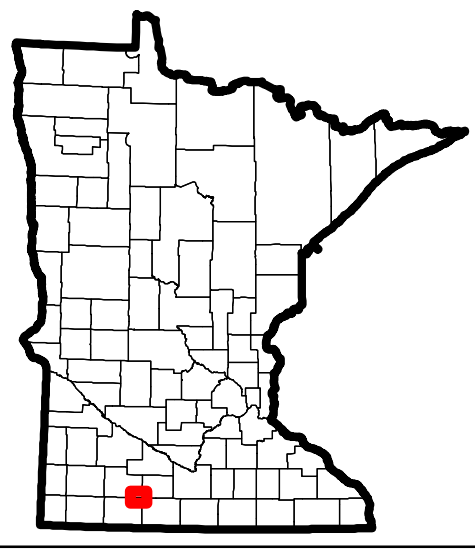
LEGEND

-  Project Area
-  Permanent Met Towers
-  Turbines (GW87)
-  Project Substation
-  Access Roads
-  Collector Lines
-  Emergent Wetland
-  Forested/Shrub Wetland
-  Riverine
-  Open Water

1
Miles



NAD 1983 UTM Zone 15N



SOURCES:
Geronimo Energy,
Ventyx, NAIP,
NWI

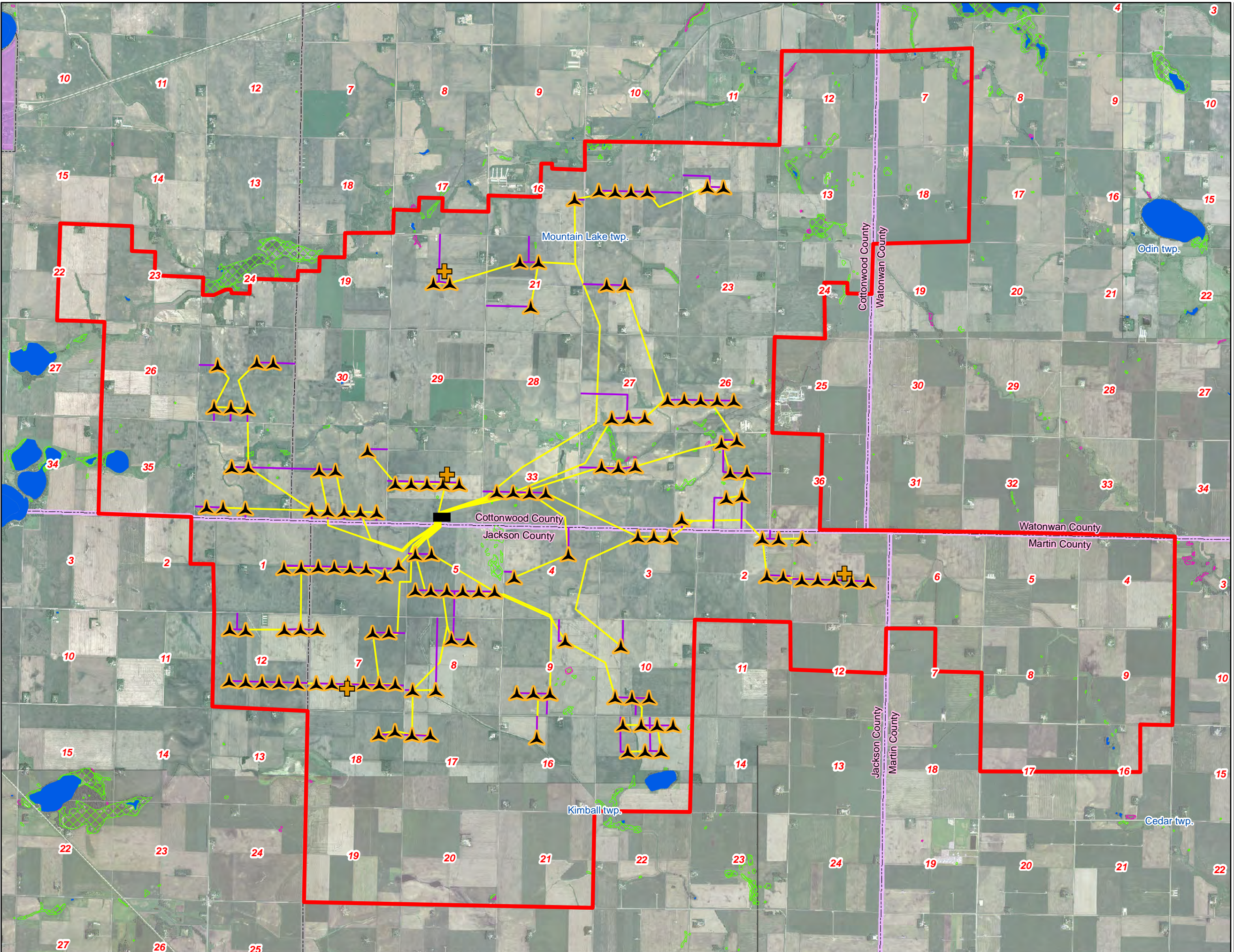











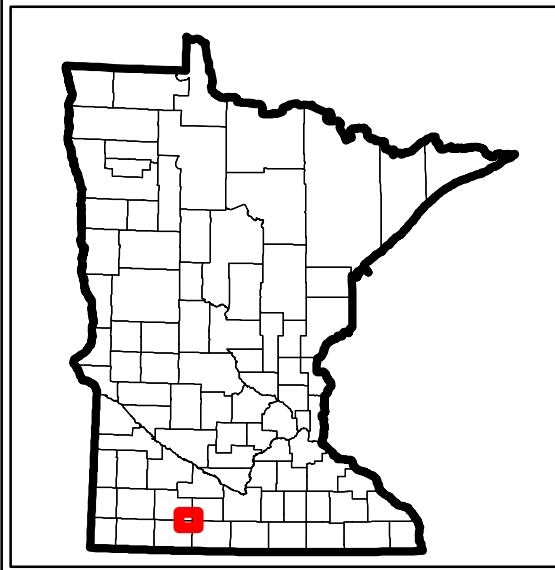
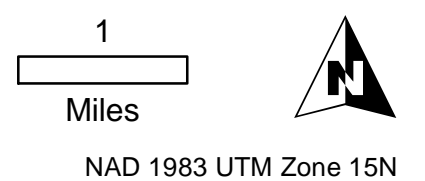


FIGURE 8.10-1 Unique Natural Features G97

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (G97)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
 -  Cultural Sites (Generalized to Section Level)
 -  Archaeological Sites (Generalized to Section Level)
- Minnesota County Biological Survey**
- Rank**
-  Outstanding
 -  High
 -  Moderate



SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
NatGeo

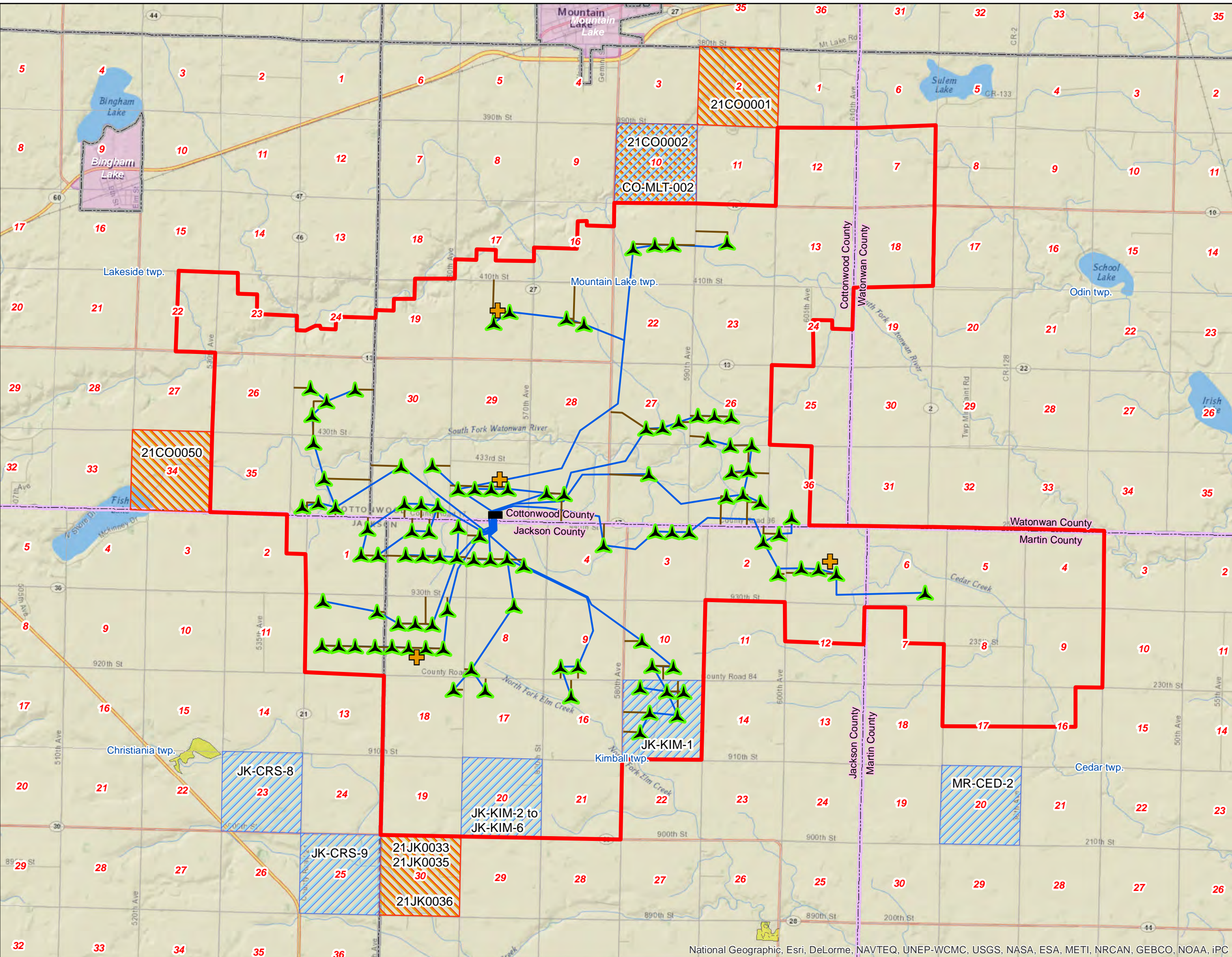











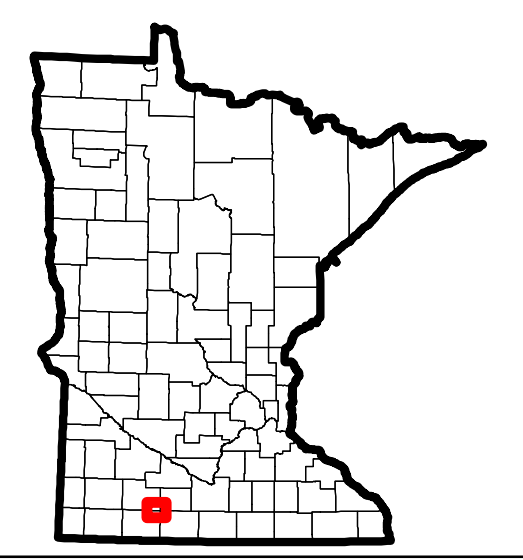
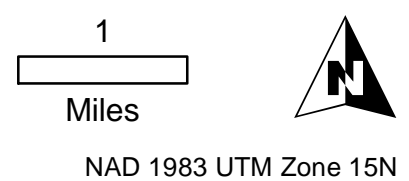


FIGURE 8.10-2 Unique Natural Features V110

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (V110)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
 -  Cultural Sites (Generalized to Section Level)
 -  Archaeological Sites (Generalized to Section Level)
- Minnesota County Biological Survey**
- Rank**
-  Outstanding
 -  High
 -  Moderate



SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
NatGeo

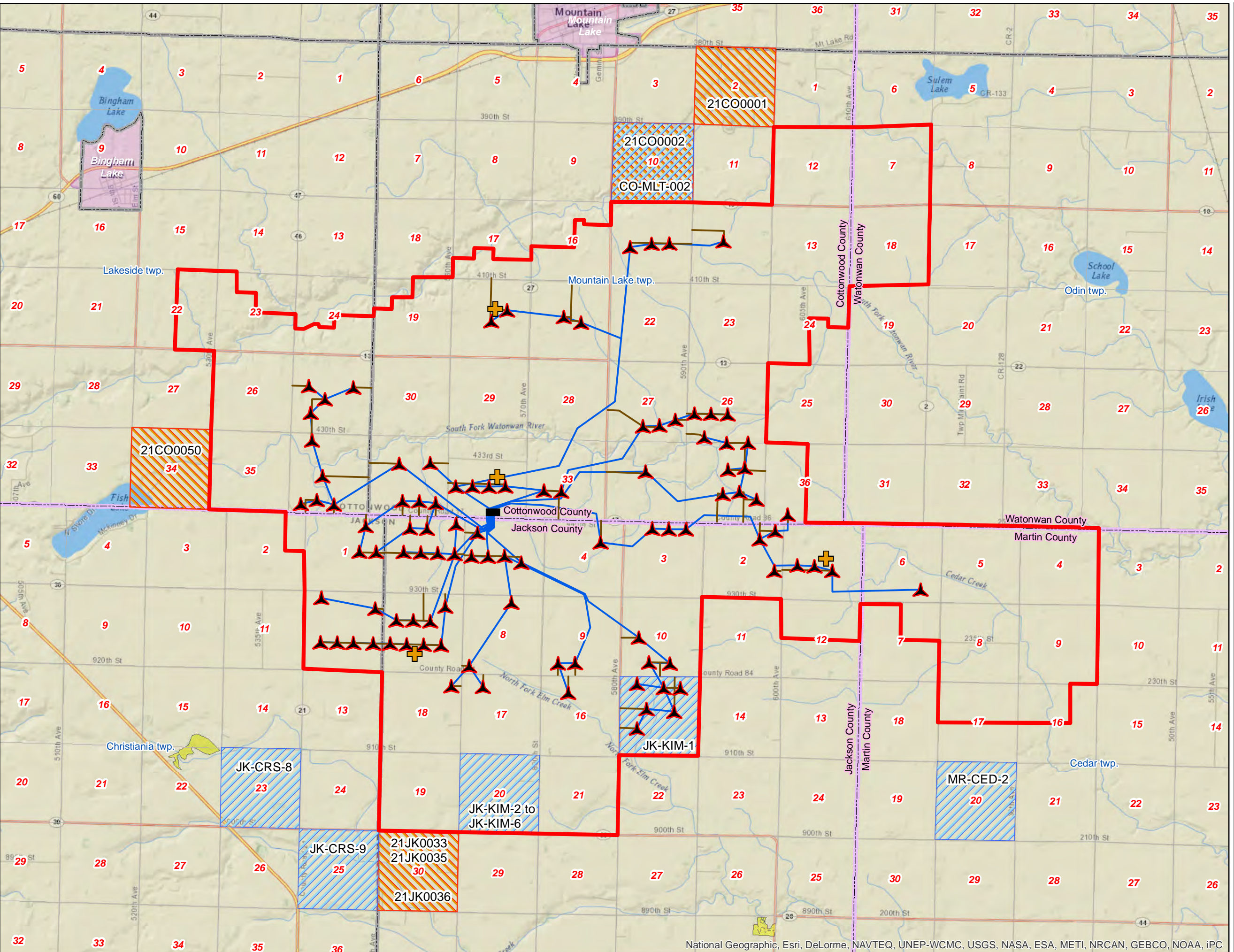











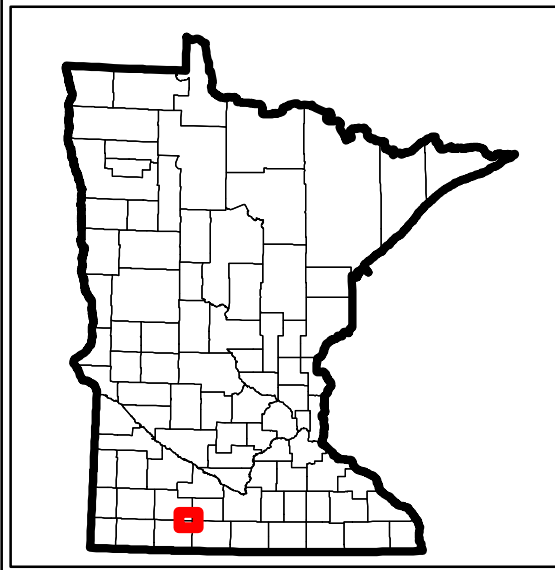
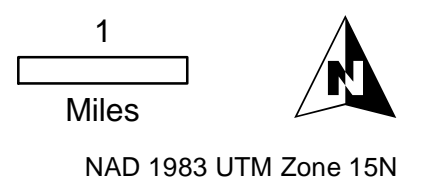



FIGURE 8.10-3 Unique Natural Features GE87

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (GE87)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
 -  Cultural Sites (Generalized to Section Level)
 -  Archaeological Sites (Generalized to Section Level)
- Minnesota County Biological Survey**
- Rank**
-  Outstanding
 -  High
 -  Moderate



SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
NatGeo

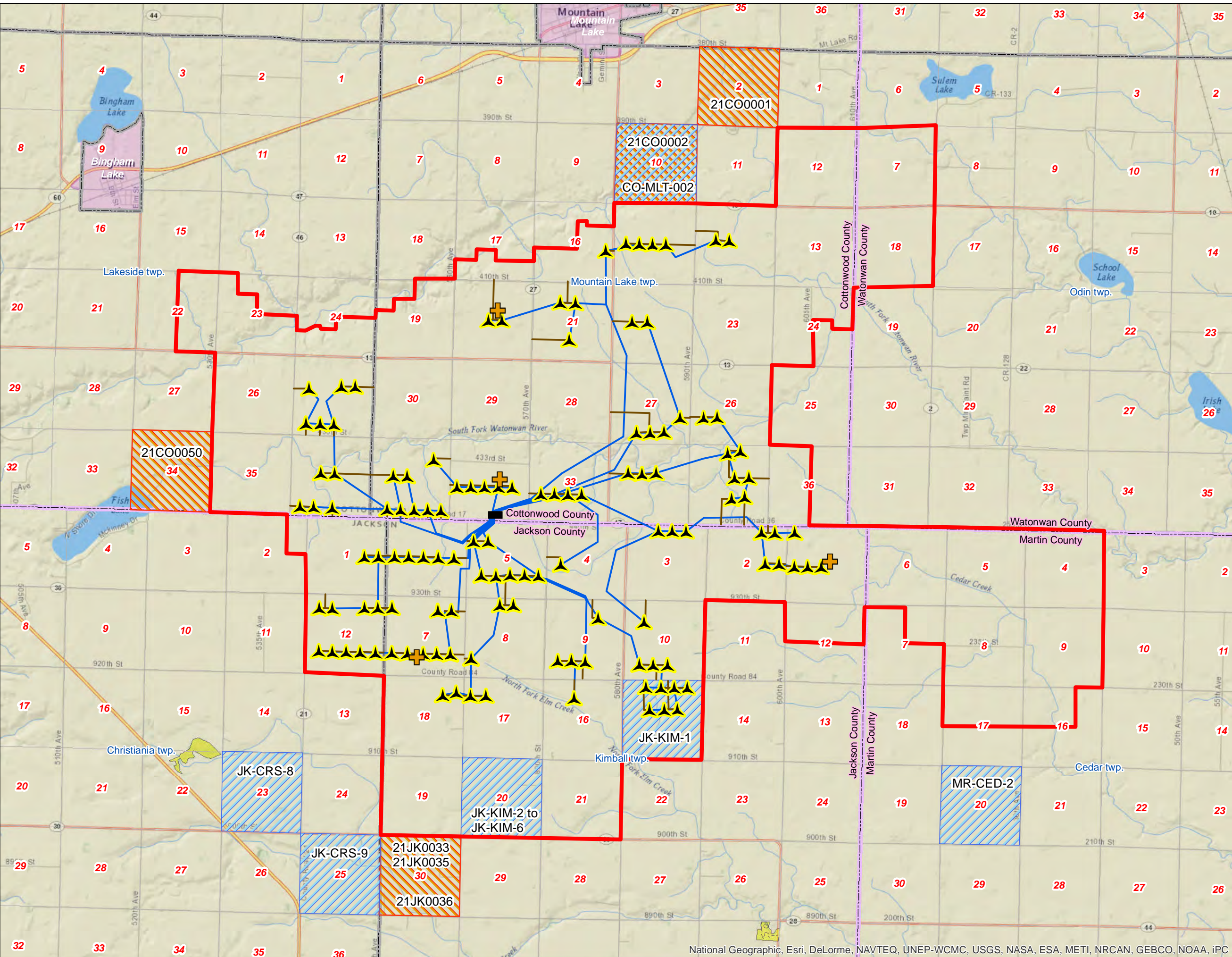











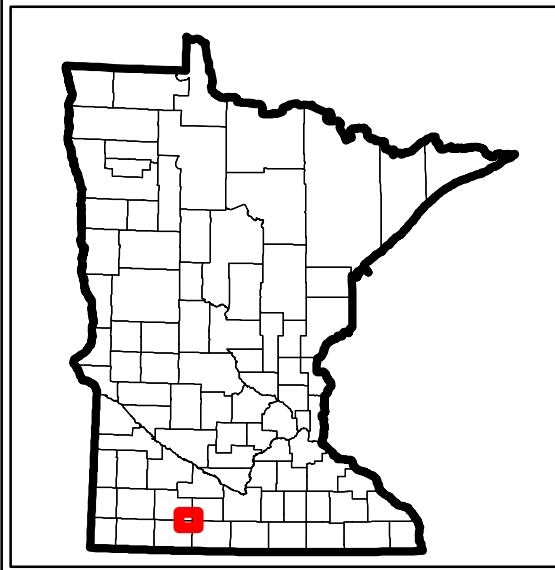
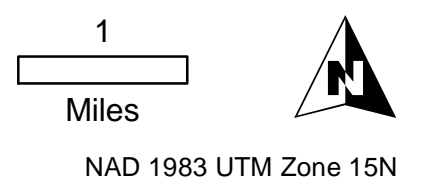


FIGURE 8.10-4 Unique Natural Features GW87

LEGEND

-  Project Area
 -  Permanent Met Towers
 -  Turbines (GW87)
 -  Project Substation
 -  Access Roads
 -  Collector Lines
 -  Cultural Sites (Generalized to Section Level)
 -  Archaeological Sites (Generalized to Section Level)
- Minnesota County Biological Survey**
- Rank**
-  Outstanding
 -  High
 -  Moderate



SOURCES:
Geronimo Energy,
Ventyx, MNDNR,
NatGeo

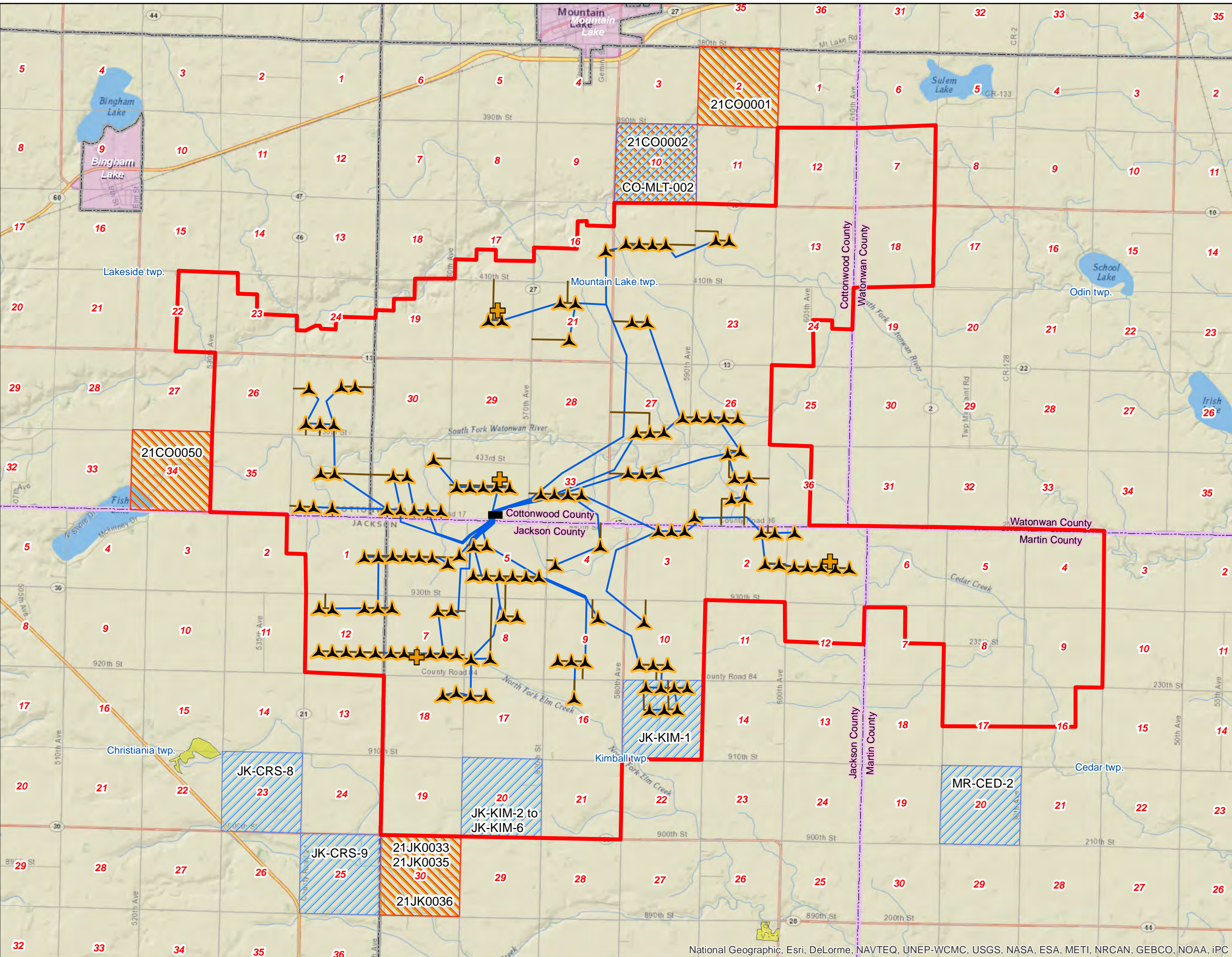


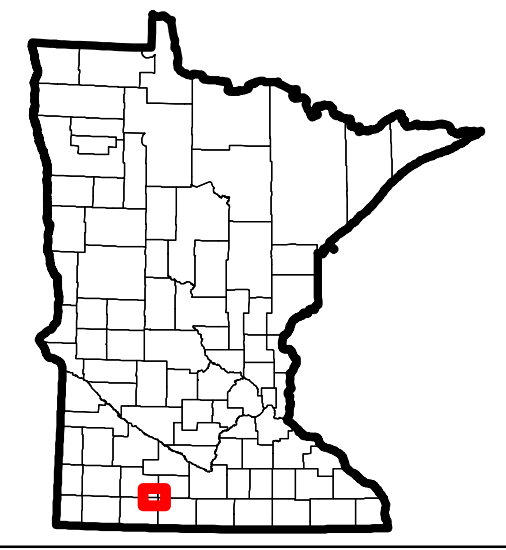
FIGURE 9.1
Existing Wind Turbines

LEGEND

- Project Area
- Existing Wind Turbines
- Elm Creek II Wind Project
- Elm Creek Wind Project
- Mountain Lake Project
- Odin Wind Project
- Trimont Area Wind Project

1.5
Miles

NAD 1983 UTM Zone 15N



SOURCES:
Geronimo Energy,
Ventyx, NAIP, FAA

