

Legend

- Project Area
- Study Area
- Non-Participating Landowner Property
- Participating Landowner Property
- State Road
- Railroad
- City/Village
- Township (PLSS)
- County



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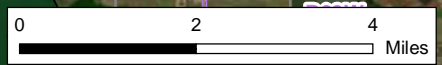
Figure 1:
PROJECT LOCATION
- Wind Energy Facility -
Logan and McIntosh Counties, ND

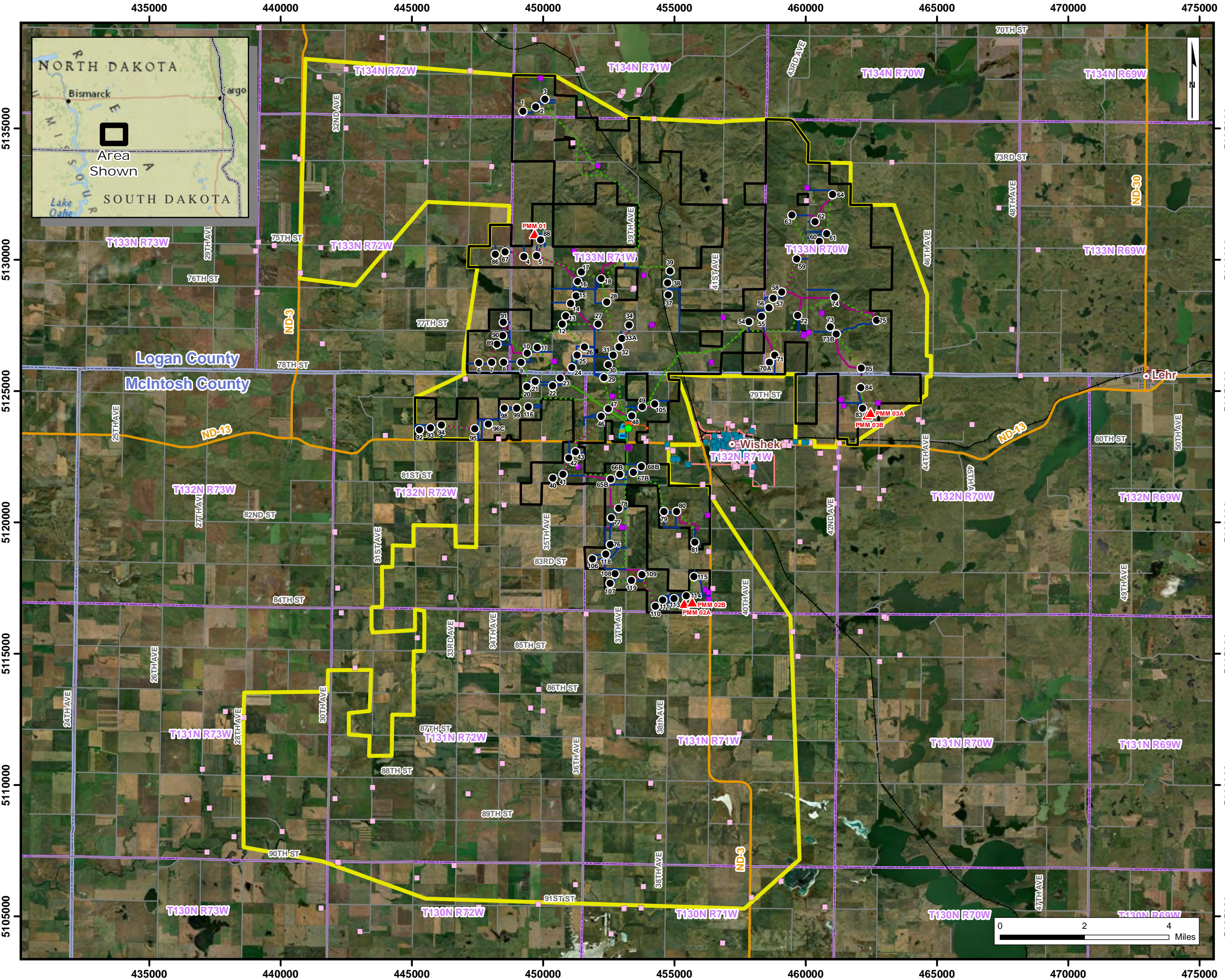
10455420-240509-PV

May 9, 2024

Projection: NAD83 UTM14

Sources: ESRI, NDGF, NDTL, TIGER





Legend
(symbols not to scale)

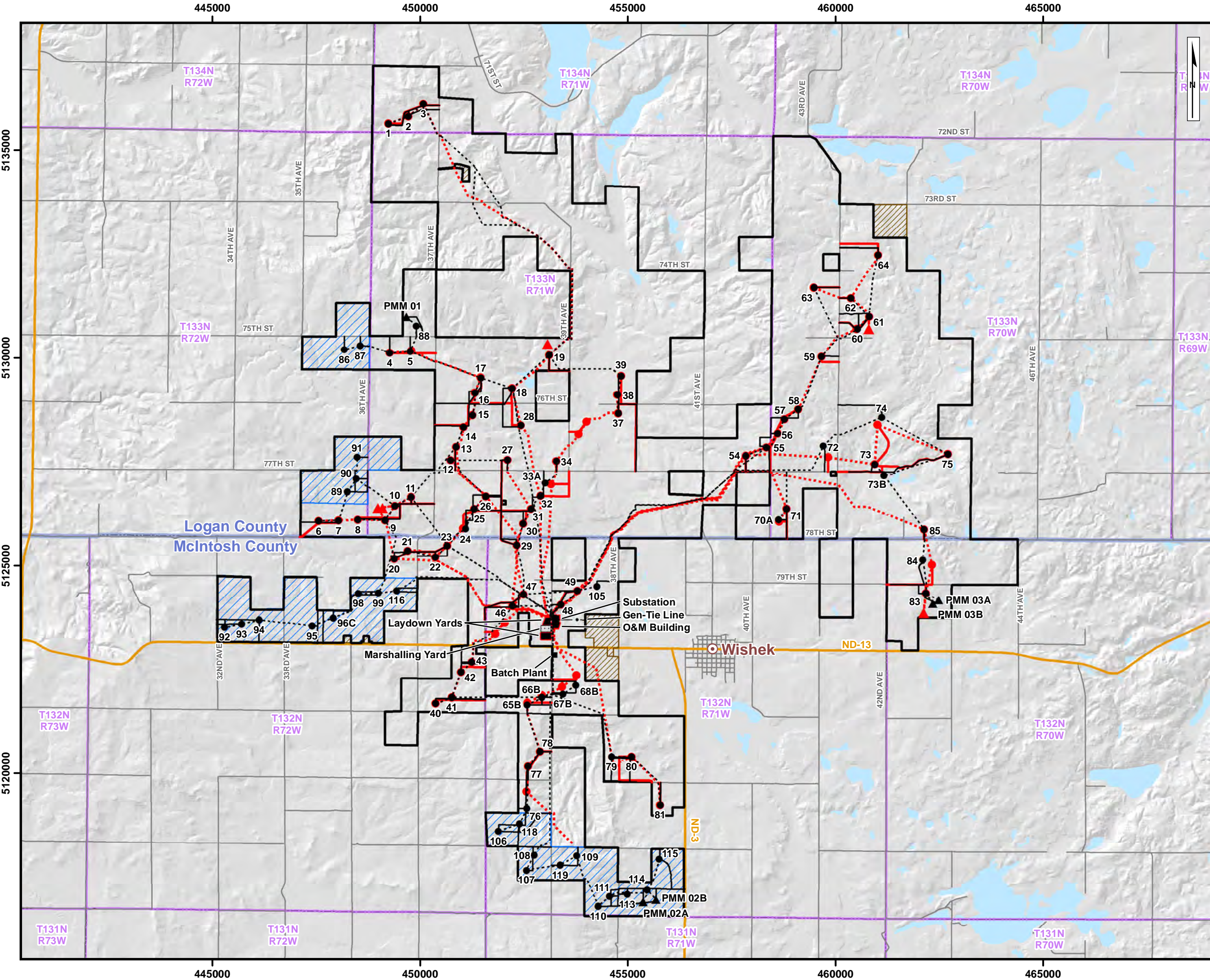
- Proposed Turbine
- ▲ Proposed Permanent MET Tower
- Proposed O&M Building
- Proposed Batch Plant
- Proposed Substation
- Proposed Gen-Tie Line
- Proposed Underground Collection/Fiber Line
- ~ Proposed Crane Path
- ~ Proposed Access Road
- Proposed Laydown Yard
- Proposed Marshalling Yard
- ▭ Project Area
- ▭ Study Area
- Participating Occupied Residence
- Non-Participating Occupied Residence
- Community Building
- ~ State Road
- ~ County/Township Road
- Railroad
- ▭ City/Village
- ▭ Township (PLSS)
- ▭ County

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Figure 2:
PROJECT FACILITIES
- Wind Energy Facility -
Logan and McIntosh Counties, ND

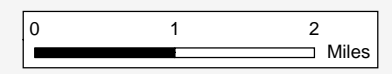
10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, NDGF, NDTL, TIGER

DNV




Legend

- Current Layout
- 2022 Layout
- Current Project Area
- Project Area (Added Since 2022 Approval)
- Project Area (Removed Since 2022 Approval)
- County
- Township (PLSS)
- State Road
- County/Township Road

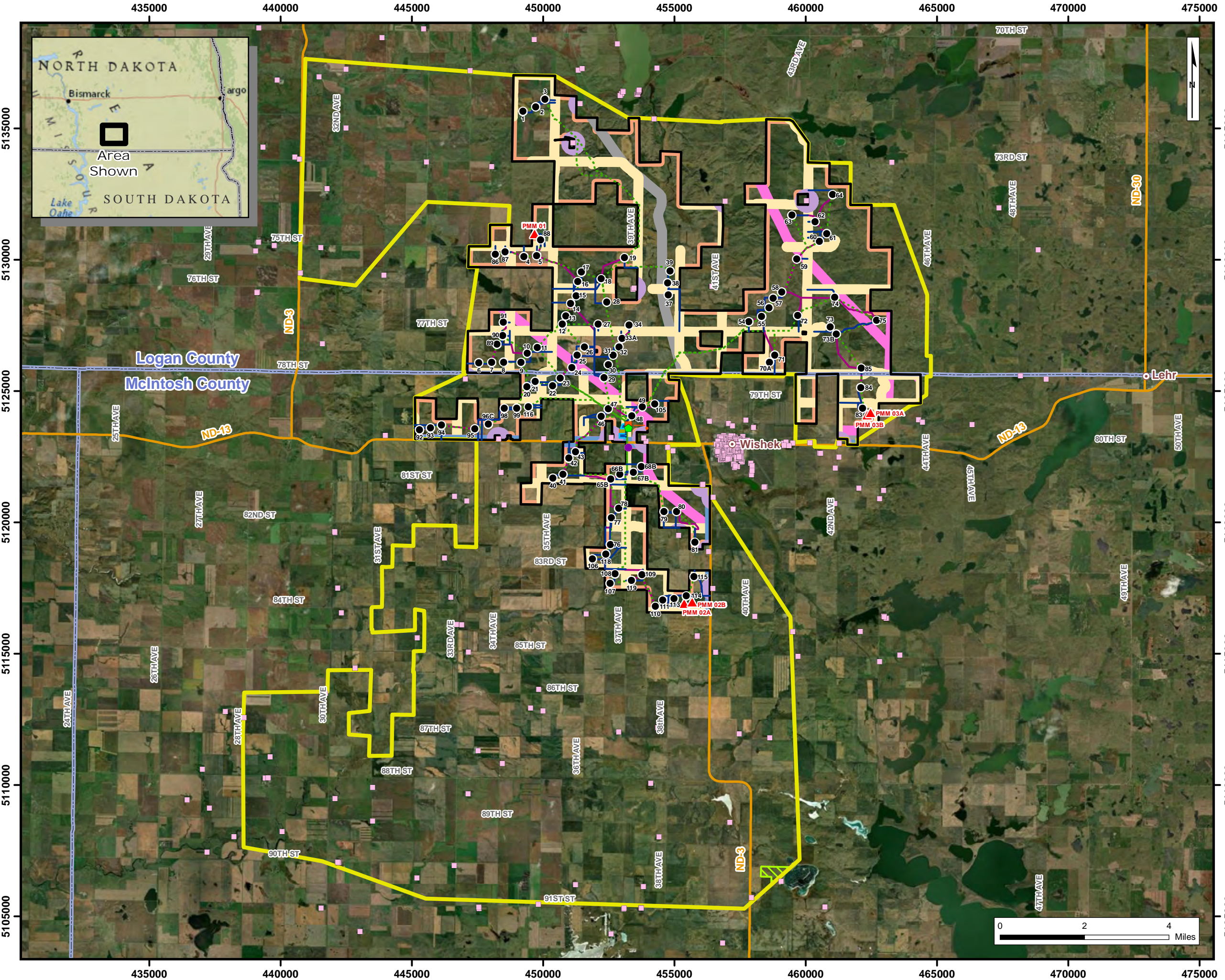


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Figure 3:
COMPARISON FIGURE
- Wind Energy Facility -
Logan County, ND



10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, USGS



Legend
(symbols not to scale)

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- ~ Proposed Crane Path
- ~ Proposed Access Road
- Proposed Laydown Yard
- Proposed Marshalling Yard
- Project Area
- ▭ Study Area
- State Road
- County
- Non-Participating Occupied Residence

Exclusion Area

- ▭ Waterfowl Production Area
- ▭ Railroad
- ▭ State Road
- ▭ County and Maintained Township Road
- ▭ Existing Transmission Line
- ▭ Non-Participating Occupied Residence
- ▭ Non-Participating Property Line



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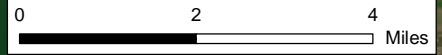
Figure 4:
EXCLUSION AREAS
- Wind Energy Facility -
Logan and McIntosh Counties, ND

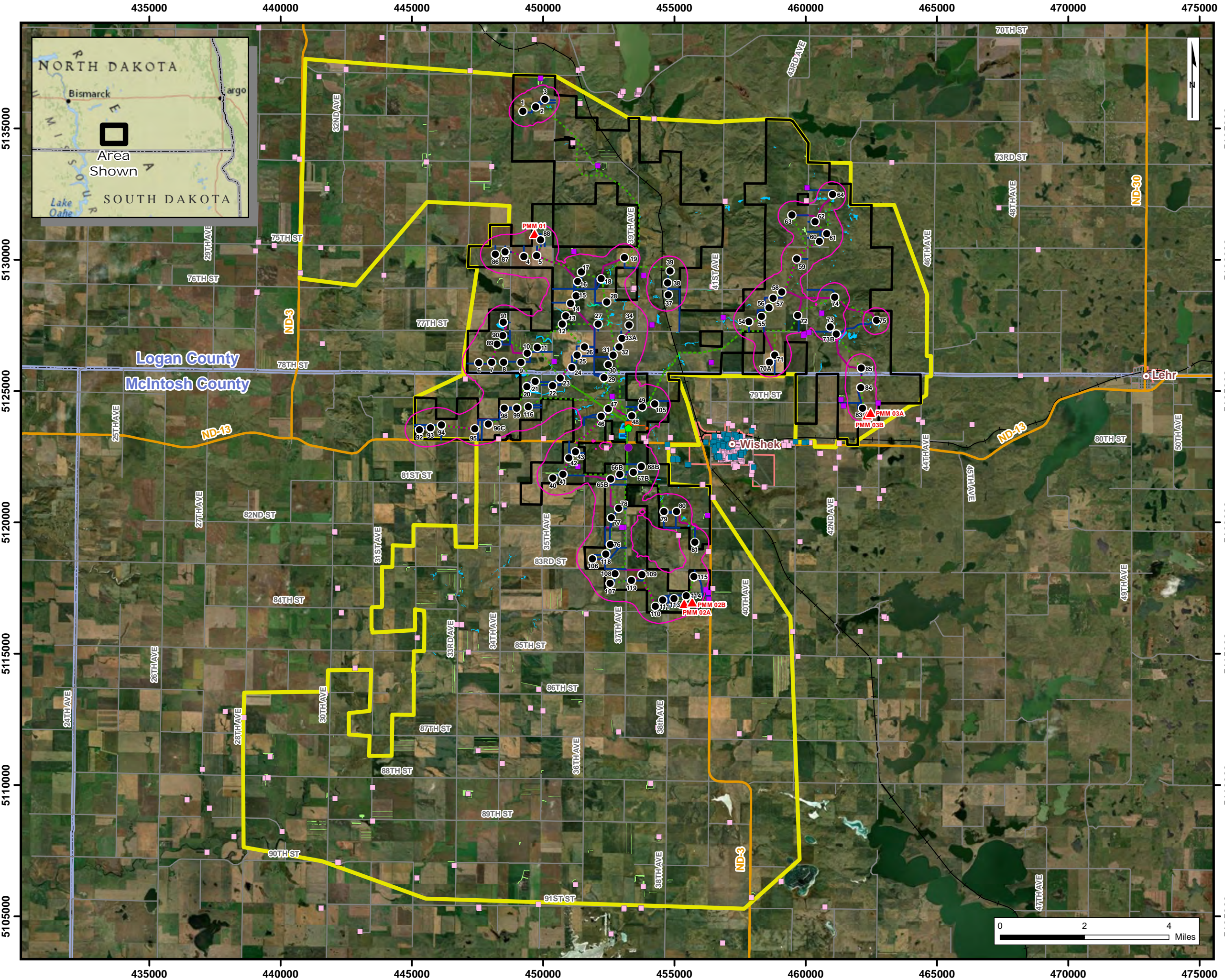
10455420-240509-PV

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Projection: NAD83 UTM14

Sources: ESRI, NLCD-USGS, TIGER





Legend
(symbols not to scale)

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- Proposed Substation
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- ⋯ Proposed Underground Collection/Fiber Line
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- ~ Proposed Access Road
- Proposed Laydown Yard
- Proposed Marshalling Yard
- ▭ Project Area
- ▭ Study Area
- ▭ State Road
- ▭ County

Avoidance Areas

- Participating Occupied Residence
- Non-Participating Occupied Residence
- Community Building
- 45 dBA Sound Level Isoline
- Field Mapped Wetland
- Delineated Wetland
- Woodlands (Desktop Delineation)
- ▭ City/Village

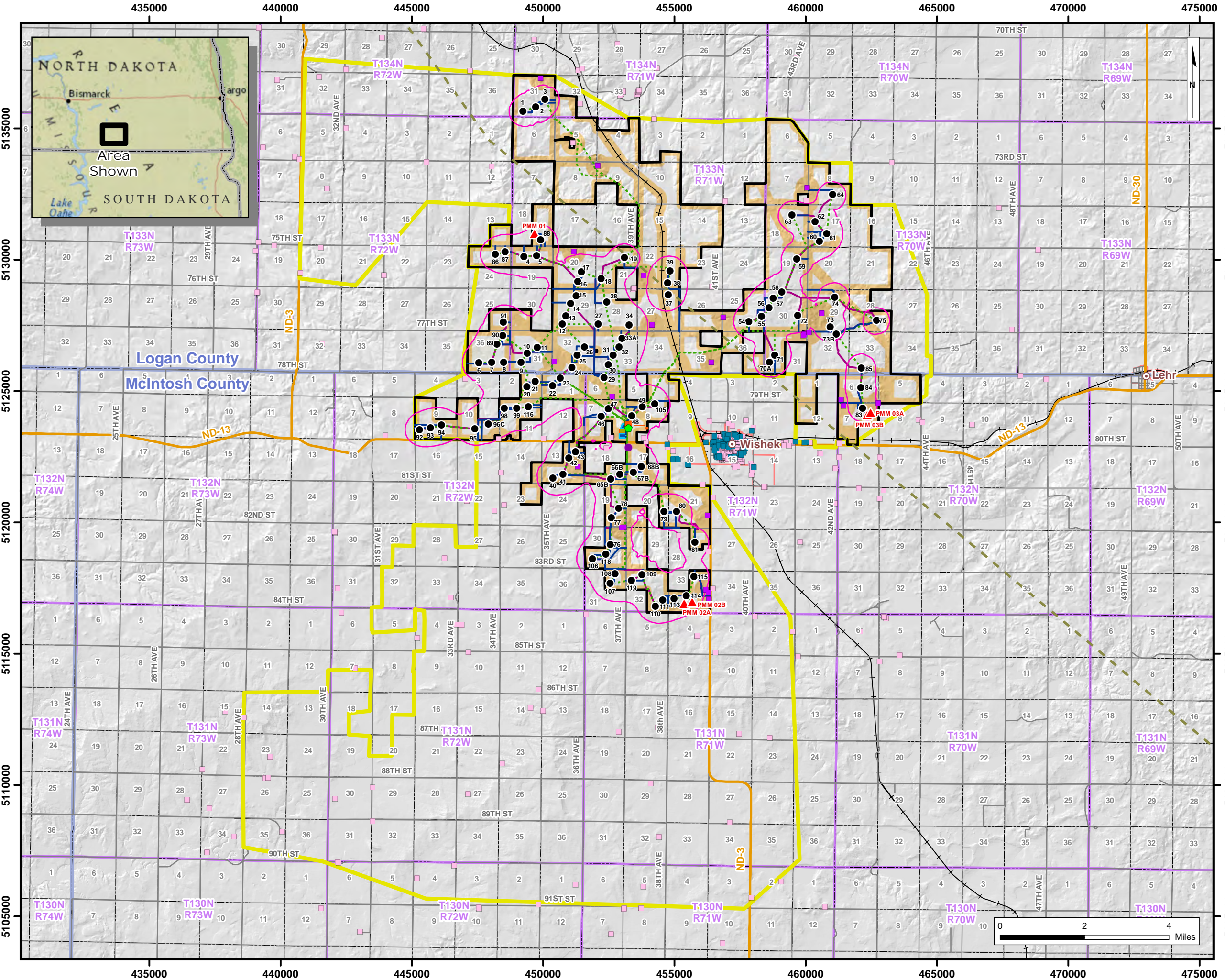
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Figure 5:
AVOIDANCE AREAS
- Wind Energy Facility -
Logan and McIntosh Counties, ND

10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, NDGF, NDTL, TIGER

DNV

0 2 4 Miles



Legend
(symbols not to scale)

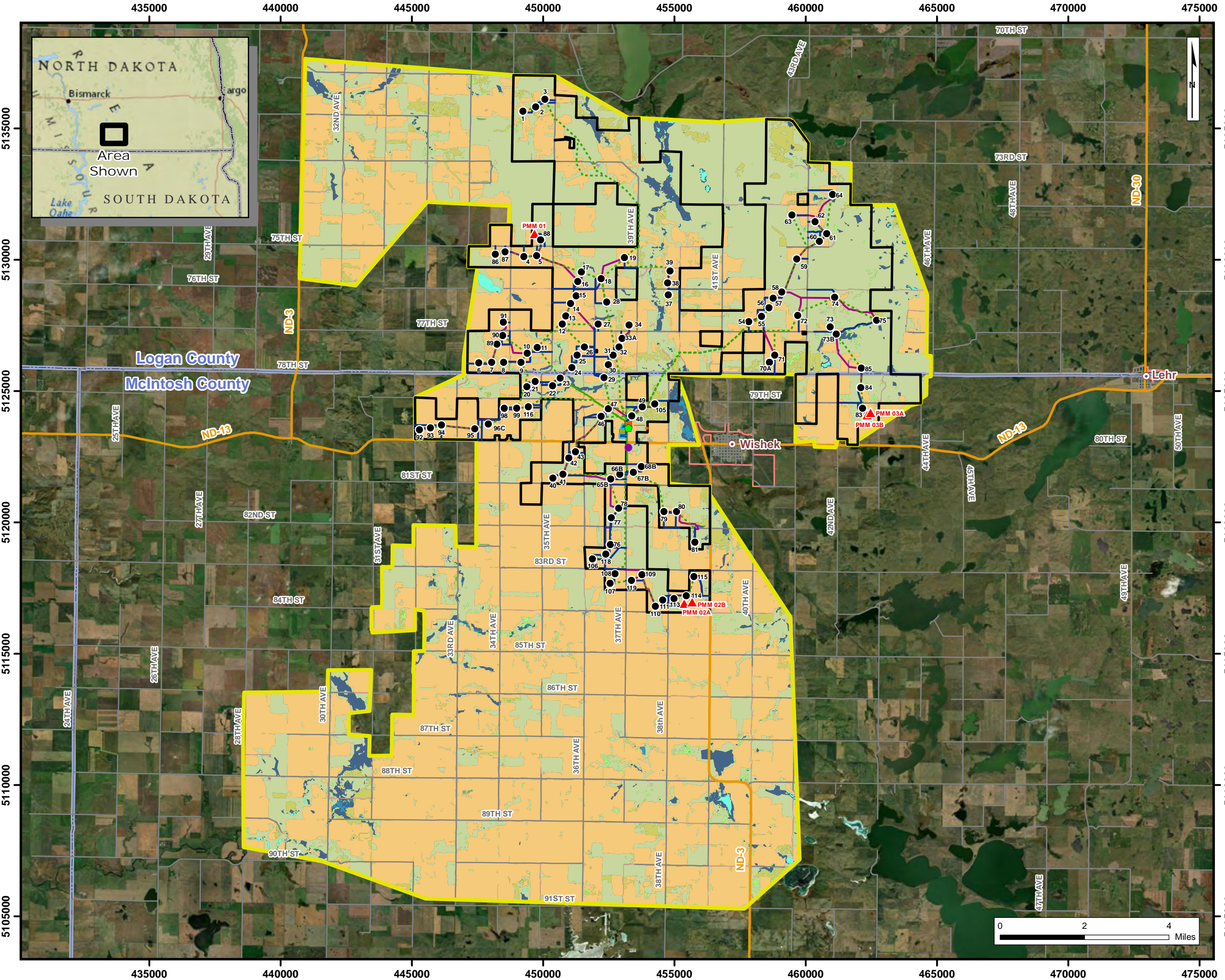
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- Proposed Batch Plant
- Proposed Substation
- Proposed Gen-Tie Line
- Proposed Underground Collection/Fiber Line
- ~ Proposed Crane Path
- ~ Proposed Access Road
- Proposed Laydown Yard
- Proposed Marshalling Yard
- Project Area
- Study Area
- State Road
- Township (PLSS)
- Section Boundary
- County
- Participating Occupied Residence
- Non-Participating Occupied Residence
- Community Building
- 45 dBA Sound Level Isoline
- Microwave Beam Path
- Setback

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Figure 6:
PROJECT SETBACKS
- Wind Energy Facility -
Logan and McIntosh Counties, ND

10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, NDGF, NDTL, TIGER

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Legend
(symbols not to scale)

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- ~ Proposed Crane Path
- ~ Proposed Access Road
- Proposed Laydown Yard
- Proposed Marshalling Yard
- Project Area
- ▭ Study Area
- ▬ State Road
- ⊕ City/Village
- ⊞ County

Land Cover (NLCD-USGS, 2021)

- Open Water
- Developed
- Barren Land (Rock/Sand/Clay)
- Deciduous Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands



Badger Wind, LLC

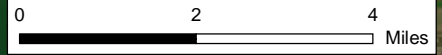
Figure 7:
LAND COVER & USE
- Wind Energy Facility -
Logan and McIntosh Counties, ND

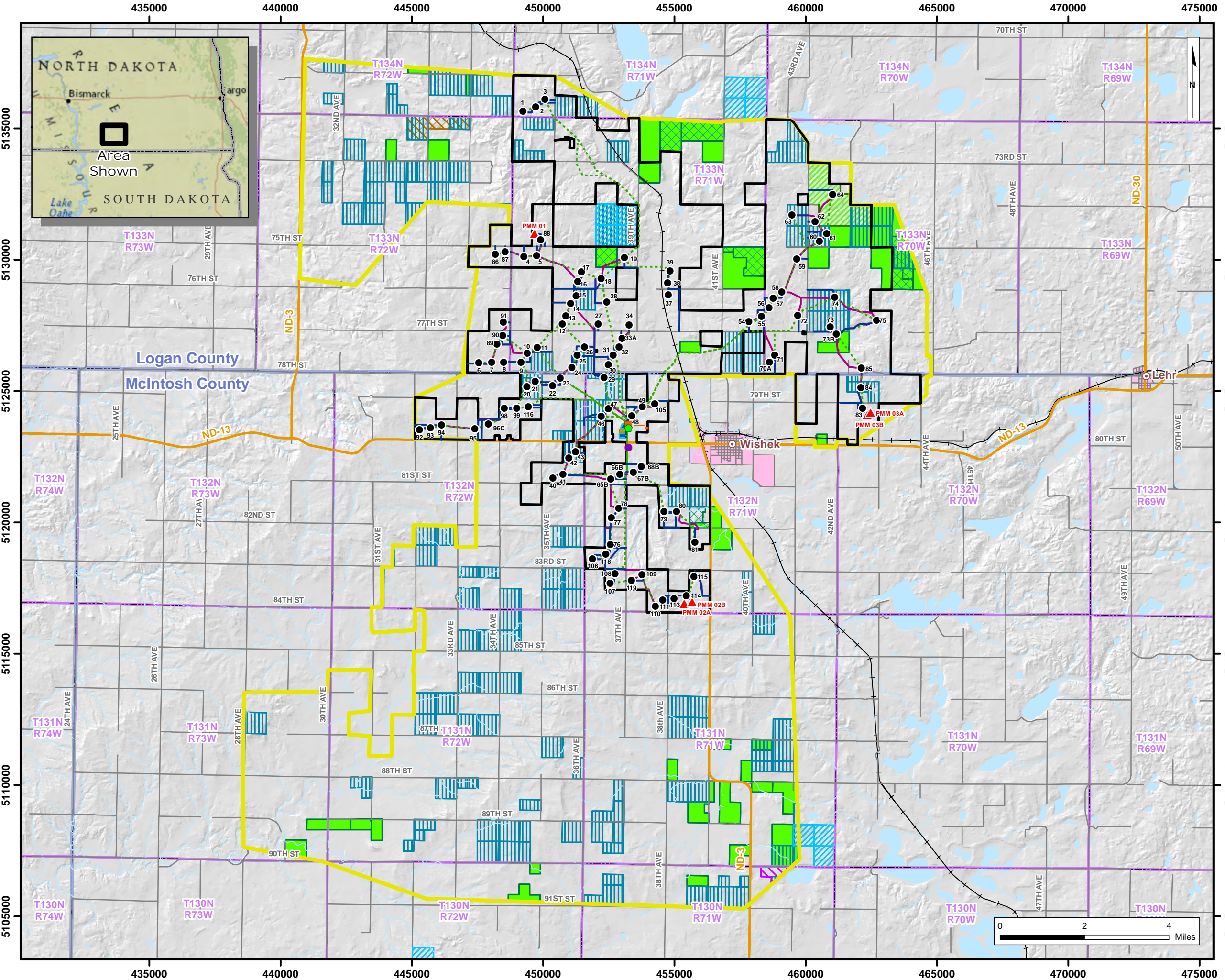
10455420-240509-PV

May 9, 2024

Projection: NAD83 UTM14

Sources: ESRI, NLCD-USGS, TIGER





Legend
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- Study Area
- State Road
- ~ County/Township Road
- Railroad
- City/Village
- Township (PLSS)
- County

Existing Public Lands and Easements

- ▨ NDGF PLOTS Land
- ▨ North Dakota Trust Land - Surface
- ▨ North Dakota Trust Land - Mineral
- ▨ USFWS Waterfowl Production Area
- ▨ USFWS Grassland Easement
- ▨ USFWS Wetland Easement
- ▨ USFWS Wetland Easement obtained subsequent to Project lease agreement



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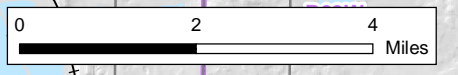
Figure 8:
EXISTING PUBLIC LANDS & EASEMENTS
- Wind Energy Facility -
Logan and McIntosh Counties, ND

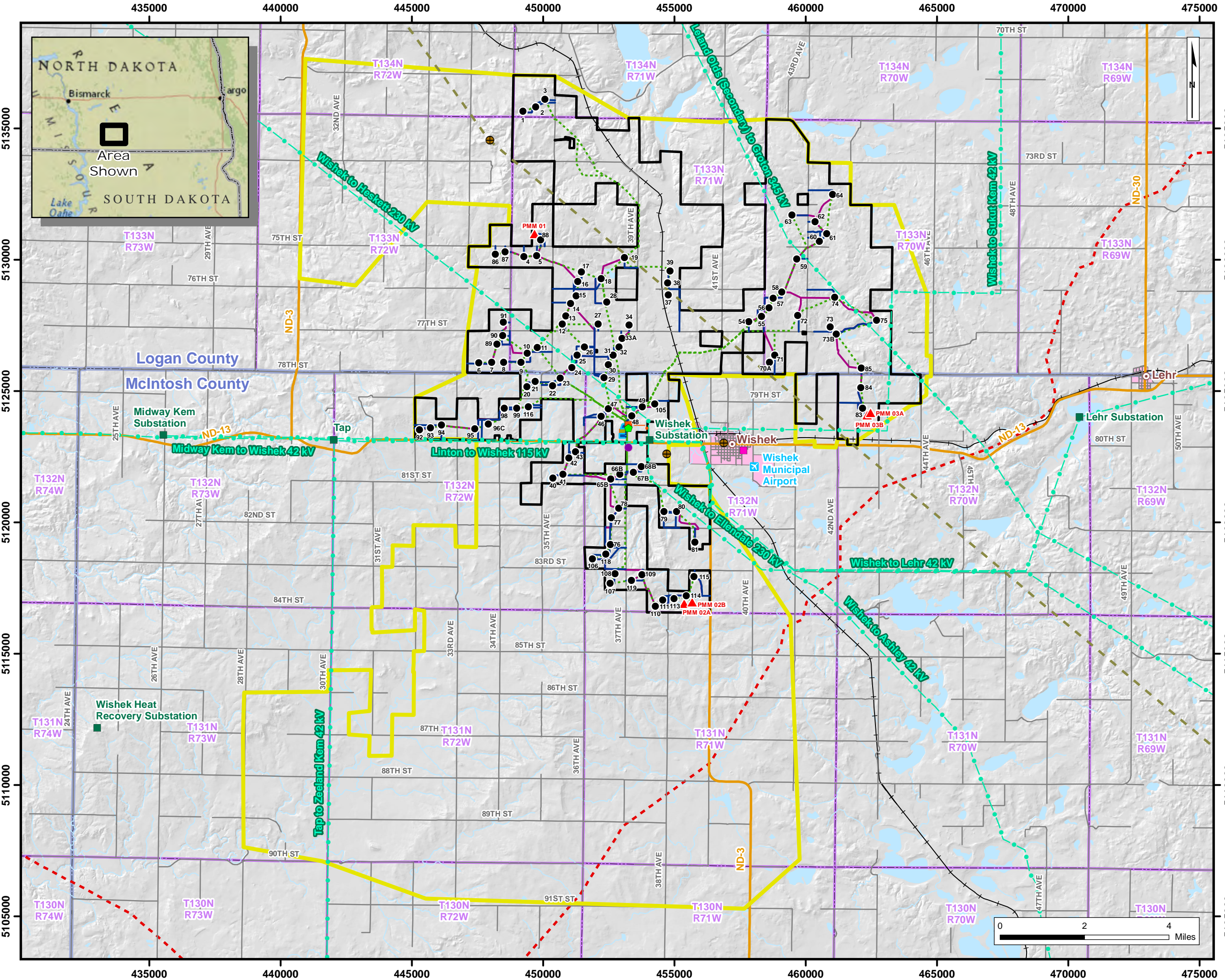
10455420-240509-PV

May 9, 2024

Projection: NAD83 UTM14

Sources: ESRI, NDGF, NDTL, TIGER





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- Proposed Access Road
- ▭ Proposed Laydown Yard
- ▭ Proposed Marshalling Yard
- ▭ Project Area
- ▭ Study Area
- ▭ City/Village
- ▭ Township (PLSS)
- ▭ County

Existing Infrastructure

- ▭ Airport
- ▭ School
- Communication Towers
- Existing Substation
- Existing Transmission Line
- - - Microwave Beam Path
- - - Natural Gas Pipeline
- State Road
- County/Township Road
- Railroad



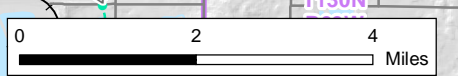
Badger Wind, LLC

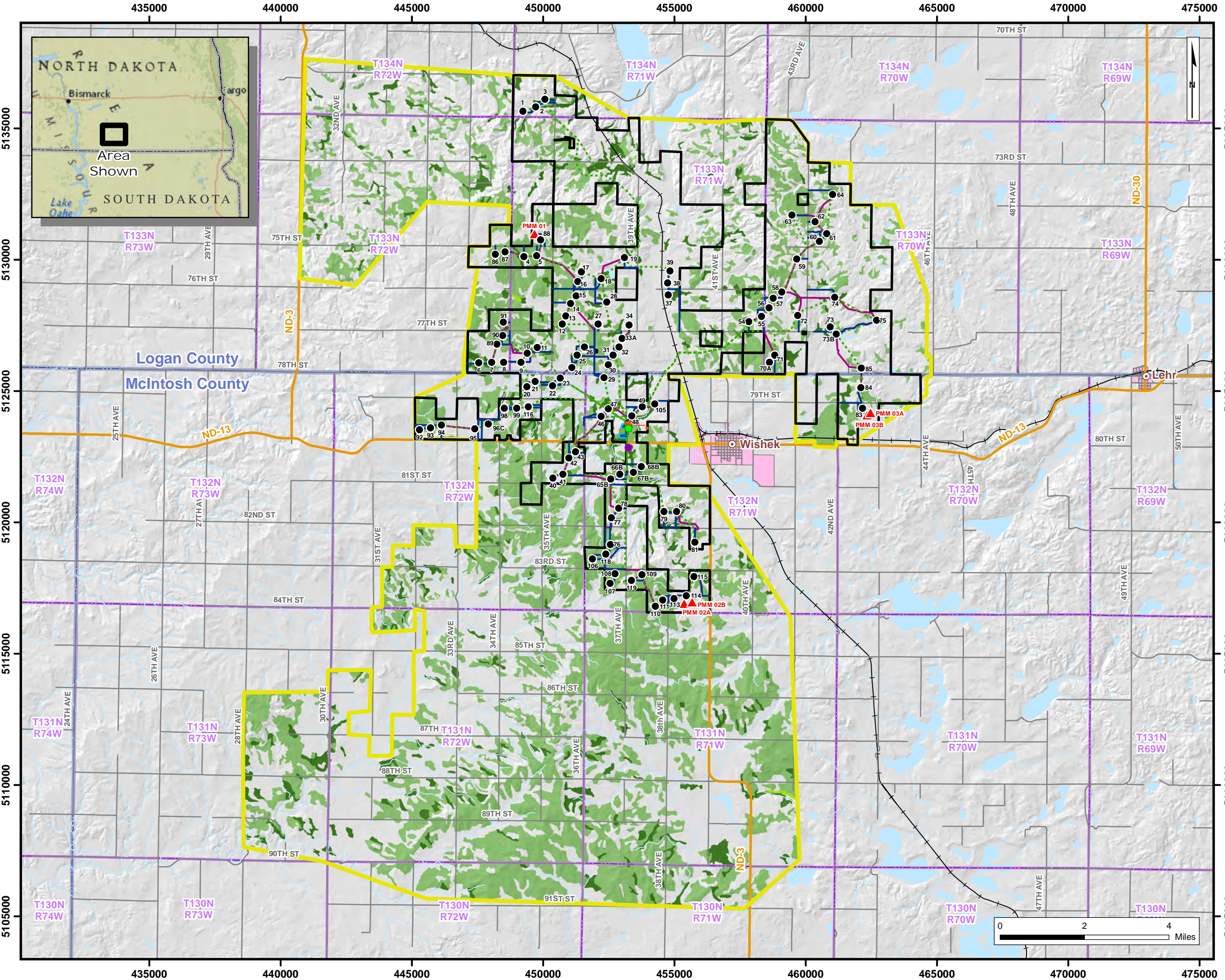
Figure 9:
EXISTING INFRASTRUCTURE
- Wind Energy Facility -
Logan and McIntosh Counties, ND

10455420-240509-PV

May 9, 2024

Projection: NAD83 UTM14
Sources: ESRI, TIGER





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Farmland Class (gSSURGO-USDA, 2022)

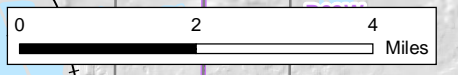
- Prime Farmland
- Farmland of Statewide Importance
- Prime Farmland if drained

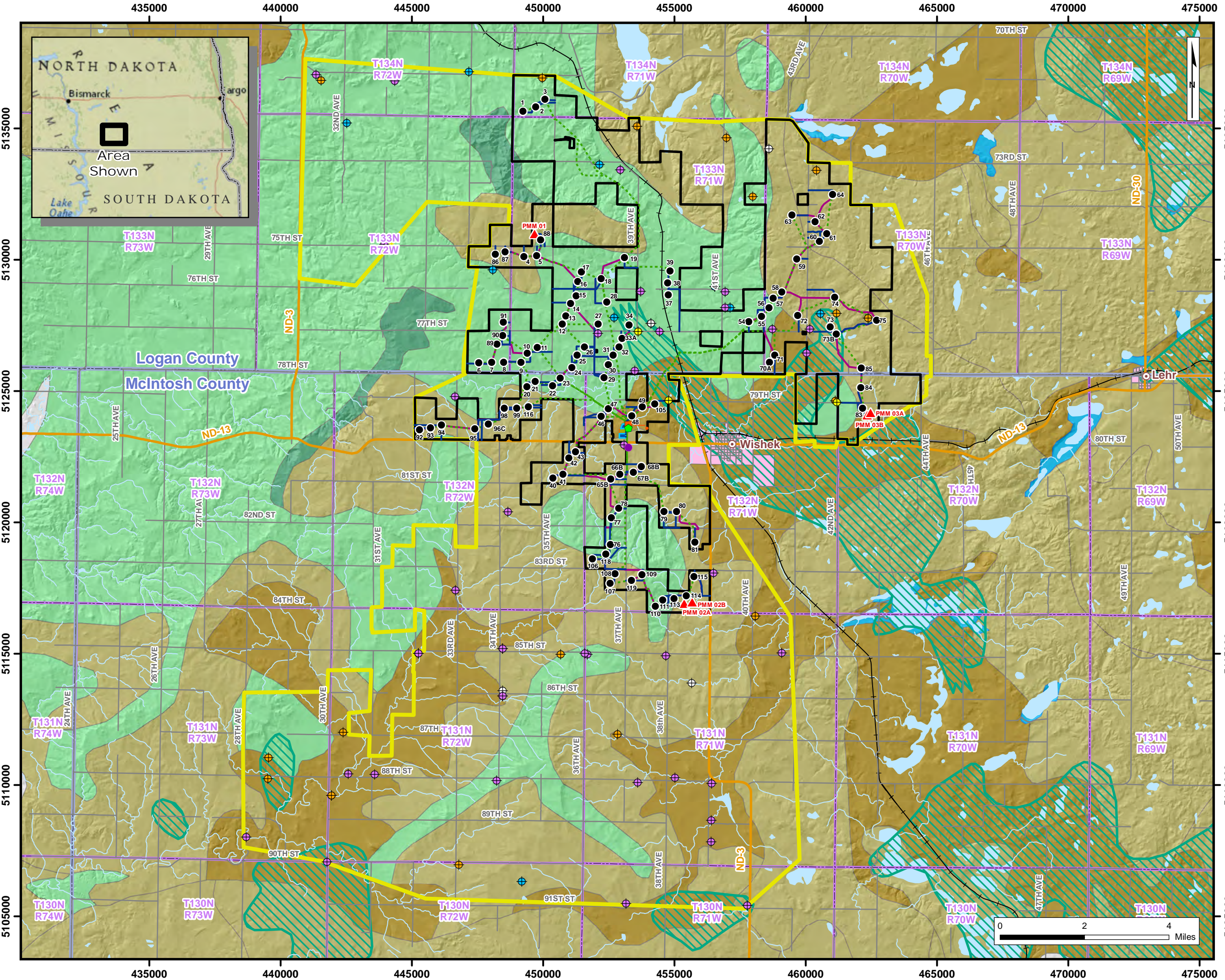
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Figure 10:
PRIME AND UNIQUE FARMLAND
- Wind Energy Facility -
Logan and McIntosh Counties, ND

10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, gSSURGO (USDA), TIGER

DNV





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(symbols not to scale)

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- ▭ County/Township Road
- ▭ Railroad
- ▭ City/Village
- ▭ Township (PLSS)
- ▭ County

Ground Water Sites (NDDWR, n.d.)

- Domestic Well
- Observation Well
- Stock Well
- Plugged/Test Well
- Unknown Well

Surficial Aquifer (NDDWR, 2019)

- Surficial Aquifer

Surface Geology (NDGS, 2023)

- Qop, Qct, Qcoh, Qcdn, Qcdc, Qccu, Qccr, Qcch; Quaternary (clay or mud, silt)
- Qcrh, Qcfr; Quaternary (sand, gravel)
- Kh; Cretaceous Hell Creek Formation (sand and silt)
- Kf; Cretaceous Fox Hills Formation (sand and shale)
- Water

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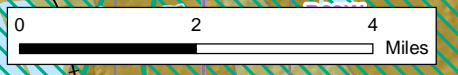
Figure 11:
GEOLOGIC AND GROUNDWATER RESOURCES
- Wind Energy Facility -
Logan and McIntosh Counties, ND

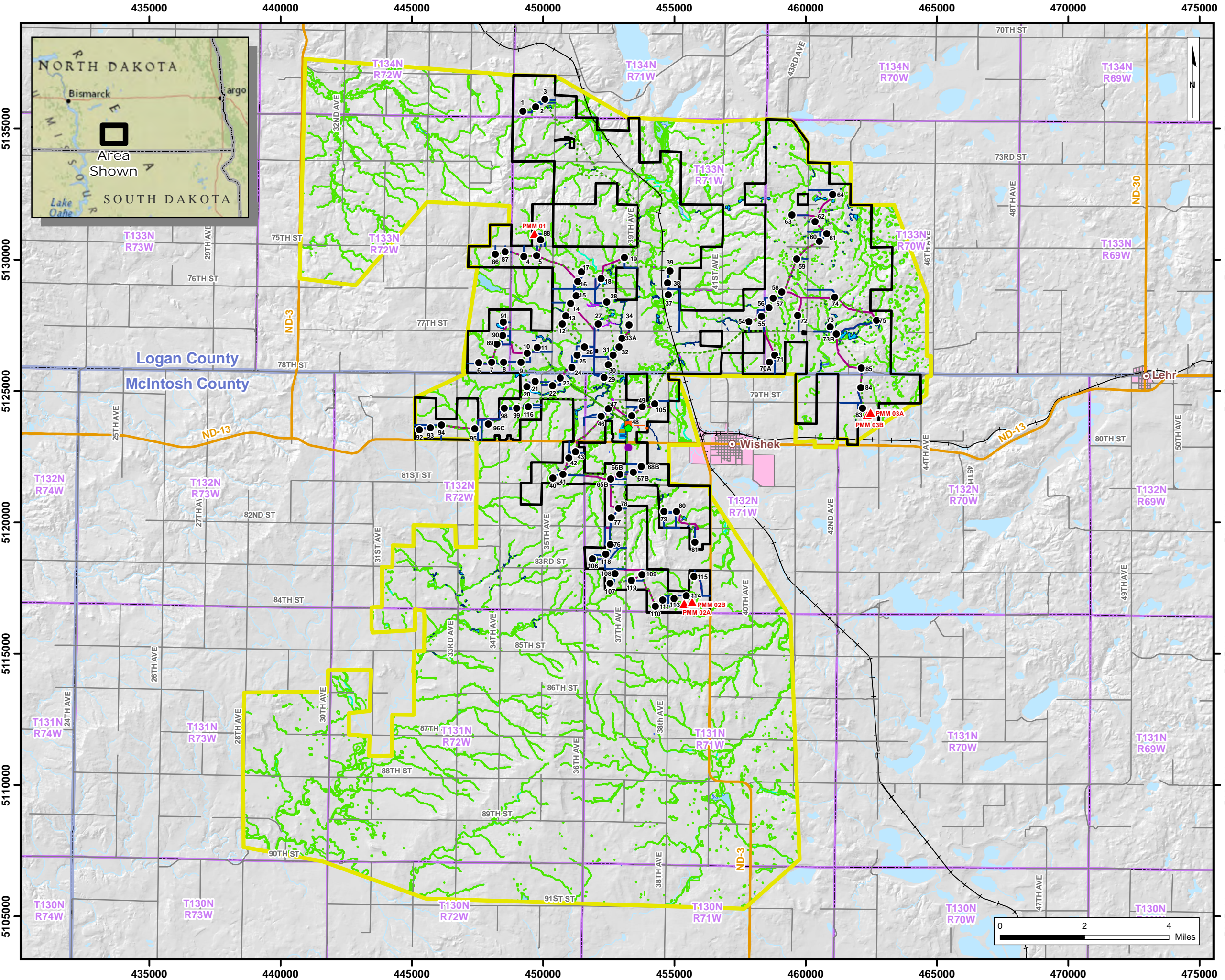
10455420-240509-PV

May 9, 2024

Projection: NAD83 UTM14
Sources: ESRI, NDDWR,
NDGS, TIGER

DNV





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- Railroad
- City/Village
- ▭ Township (PLSS)
- ▭ County

Hydrography

- ~ Perennial Stream (NHD)
- ~ Intermittent Stream (NHD)
- ~ Waterbody (NHD)
- ~ Field Mapped Wetland (2023)
- ~ Delineated Wetland
- ~ Wetland (NWI)

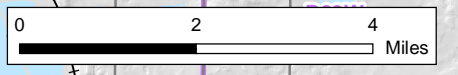
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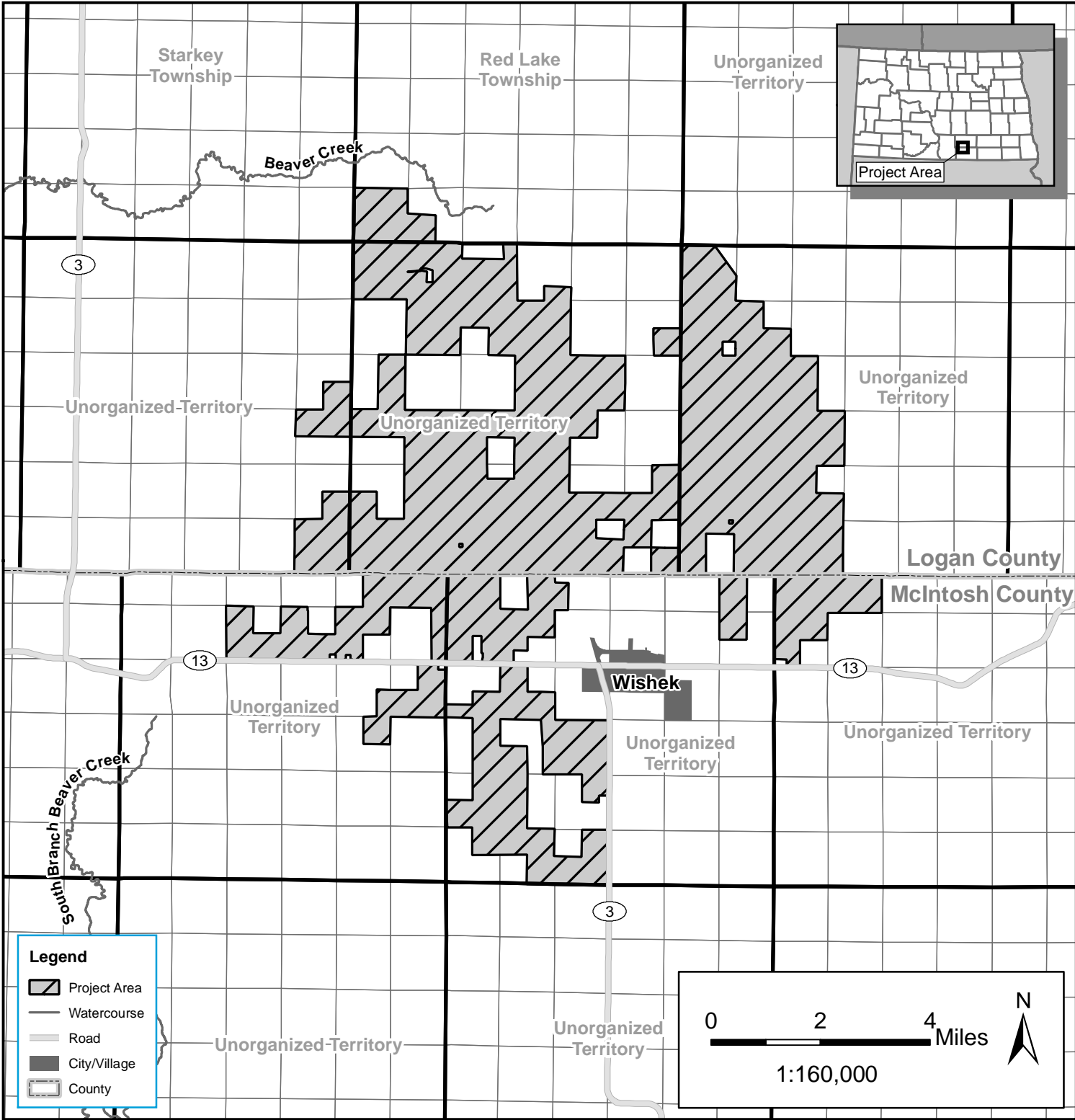
Badger Wind, LLC

Figure 12:
SURFACE WATER & WETLANDS
- Wind Energy Facility -
Logan and McIntosh Counties, ND

10455420-240509-PV
May 9, 2024
Projection: NAD83 UTM14
Sources: ESRI, NHD (USGS),
NWI (USFWS), TIGER

DNV





Badger Wind Project

Logan and McIntosh Counties, North Dakota