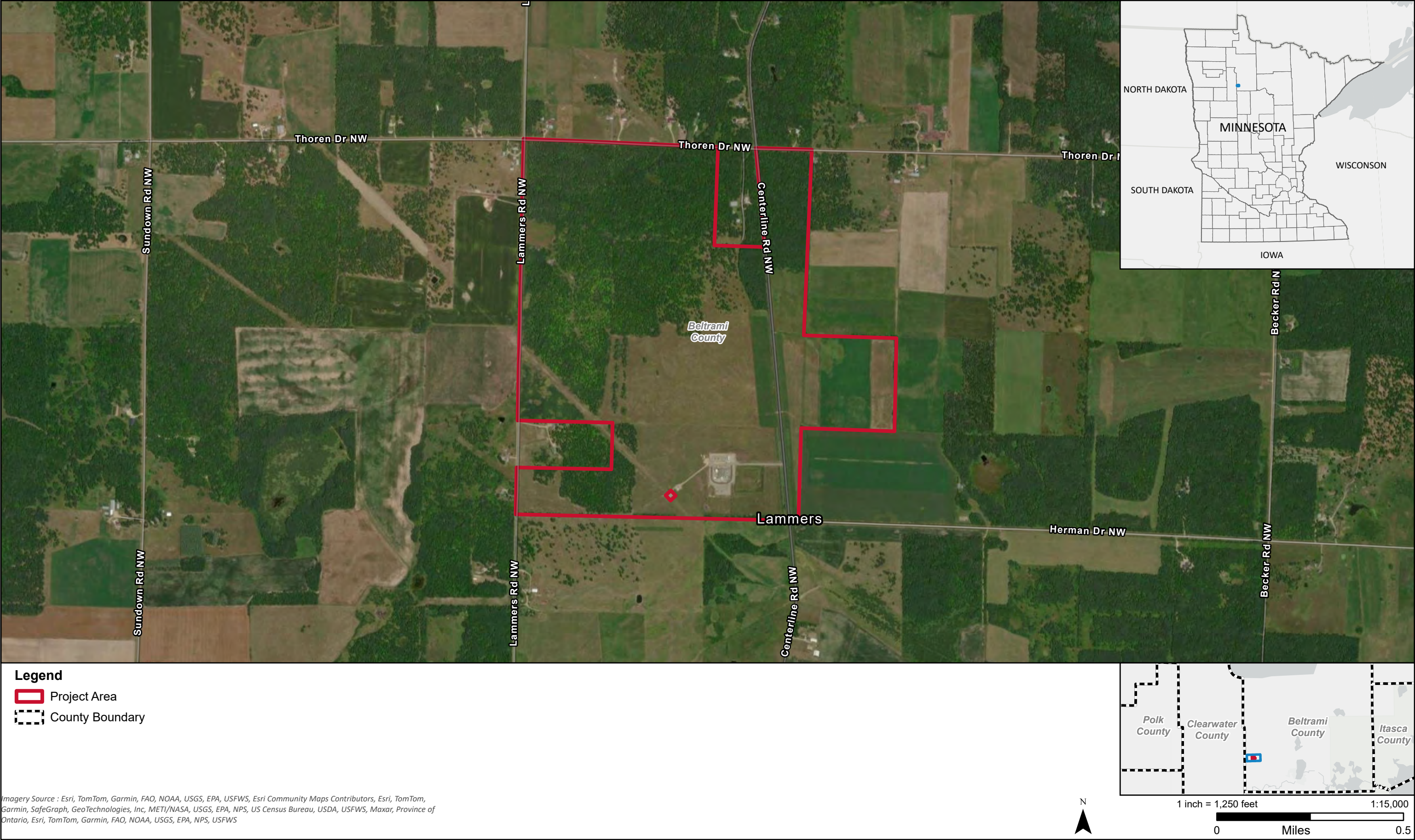


Appendix A

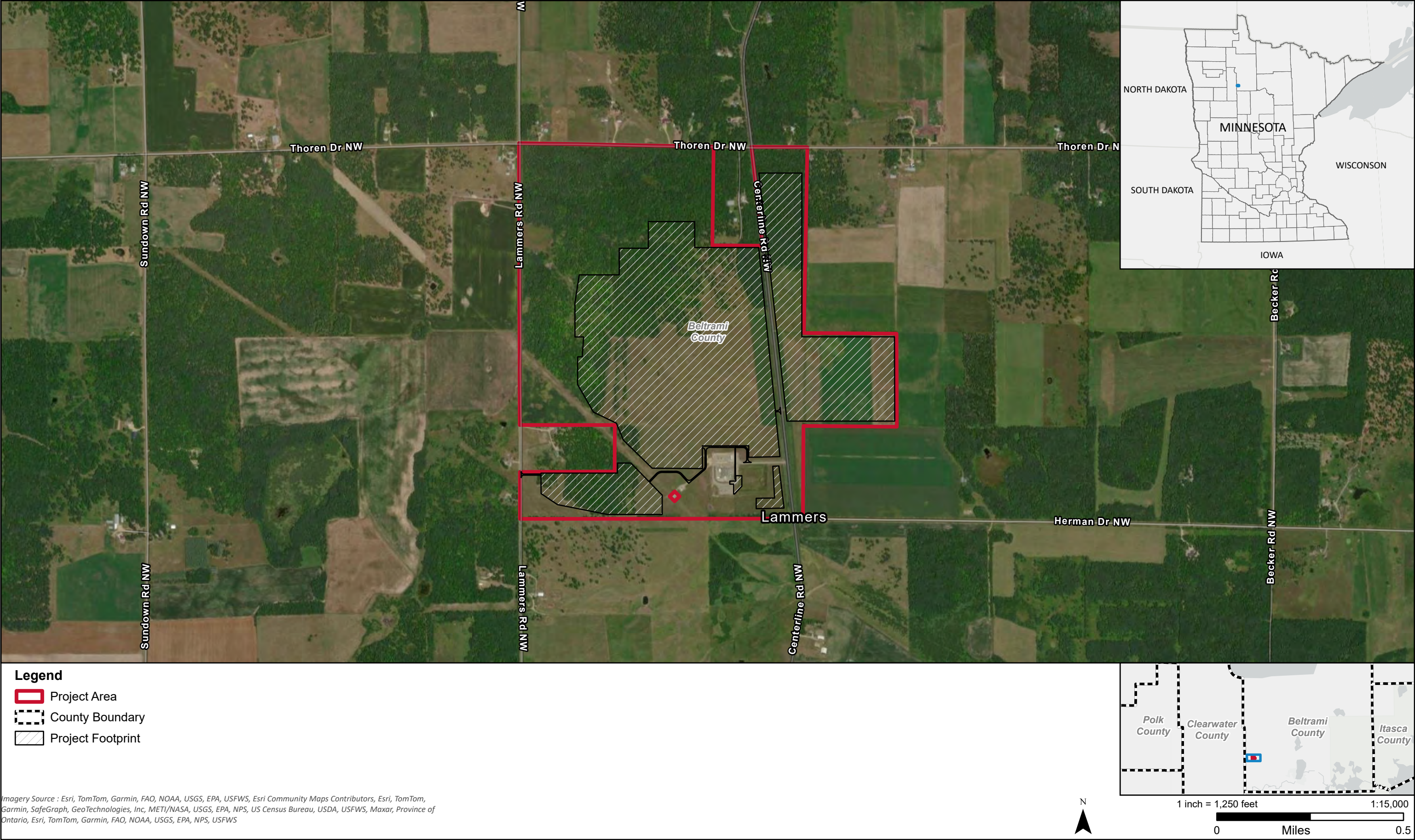
Project Maps

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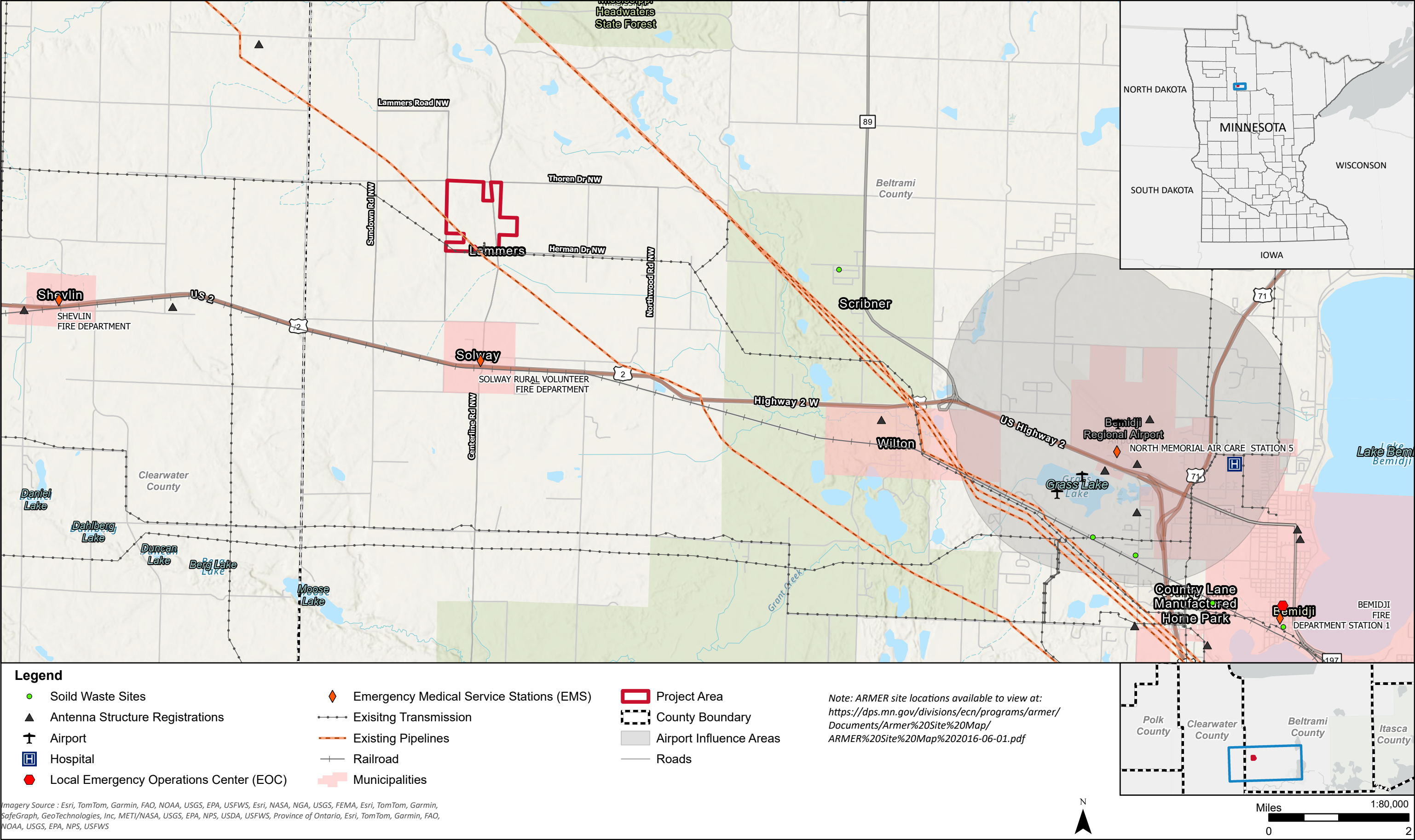
Appendix A, Figure A-1: Project Location



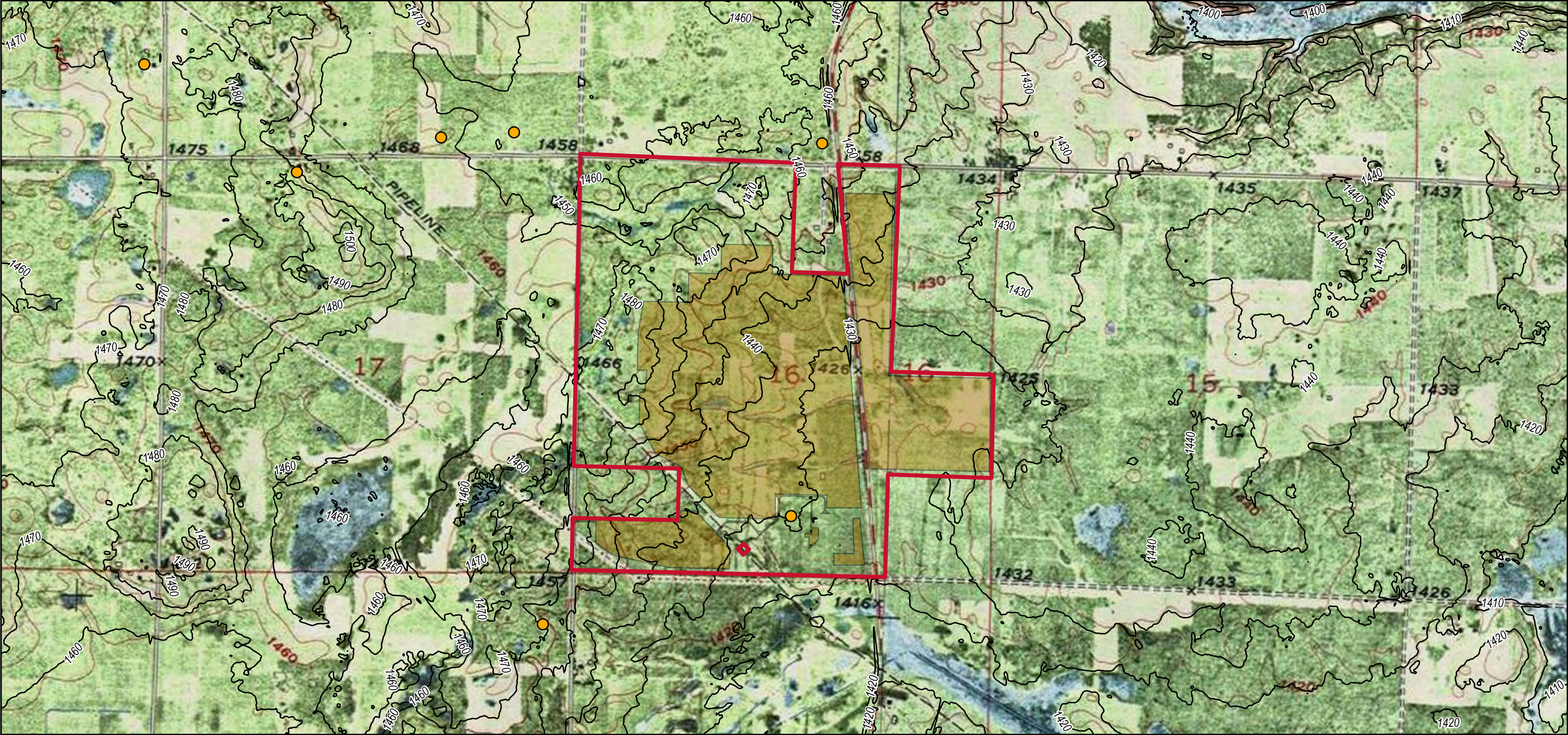
Appendix A, Figure A-2: Project Area and Project Footprint



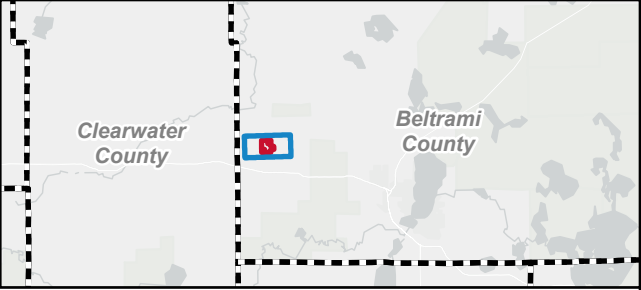
Appendix A, Figure A-3: Public Services and Infrastructure



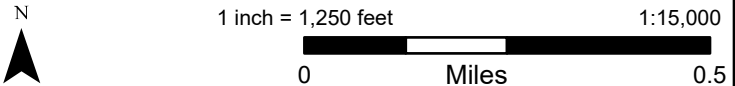
Appendix A, Figure A-4: USGS Topography and Wells



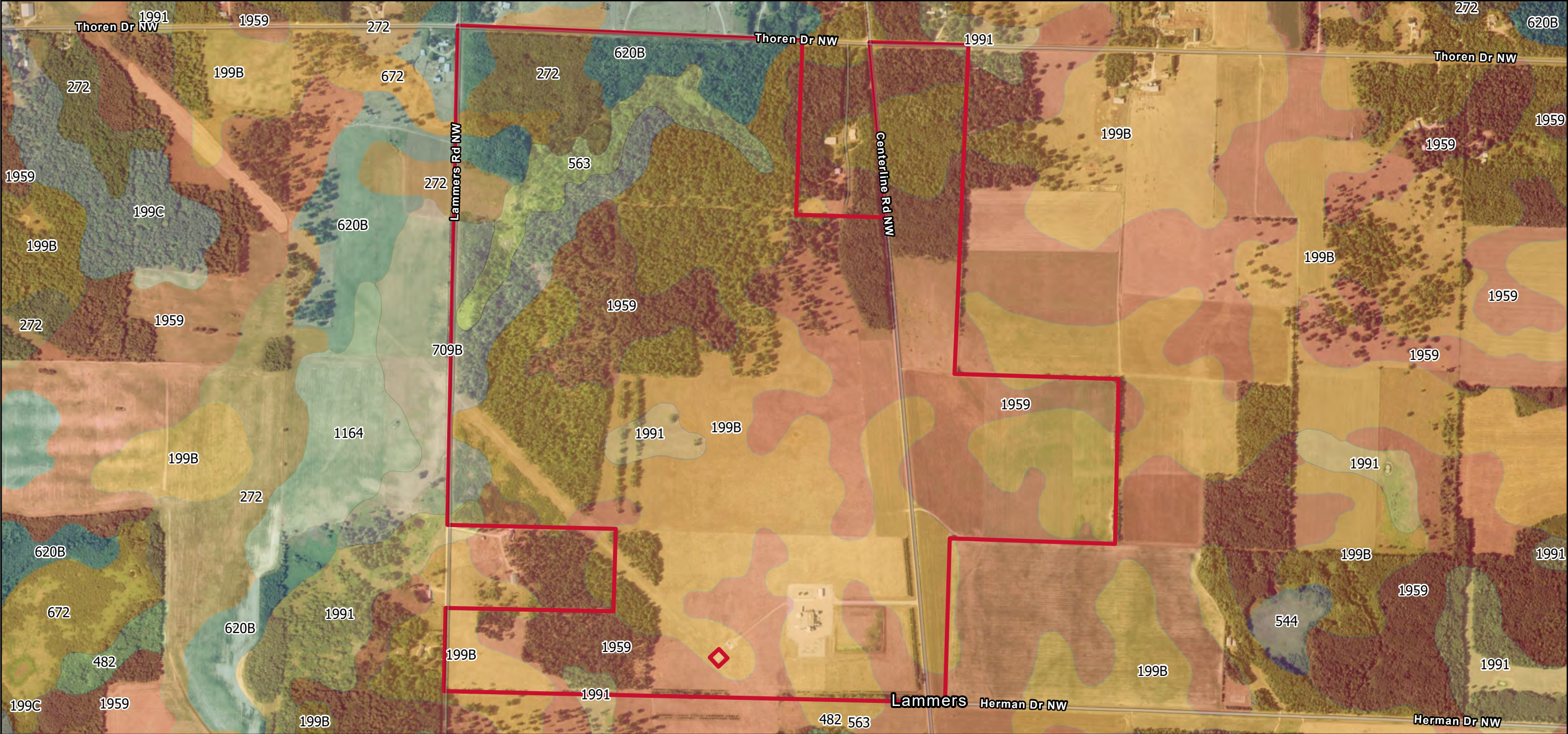
- Legend**
-  Project Area
 -  Contours (10ft)
 -  Well Location
 -  Project Footprint



Imagery Source : Copyright: © 2013 National Geographic Society, i-cubed, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS



Appendix A, Figure A-5: SSURGO Soils



Legend

 Project Area

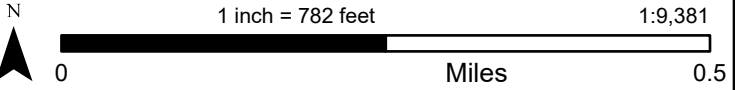
Map Unit Symbol/Map Unit Description

-  1164-Zerkel loam
-  1959-Nary cobbly fine sandy loam
-  1991-Stuntz loam
-  199B-Sol cobbly sandy loam, 1 to 6 percent slopes

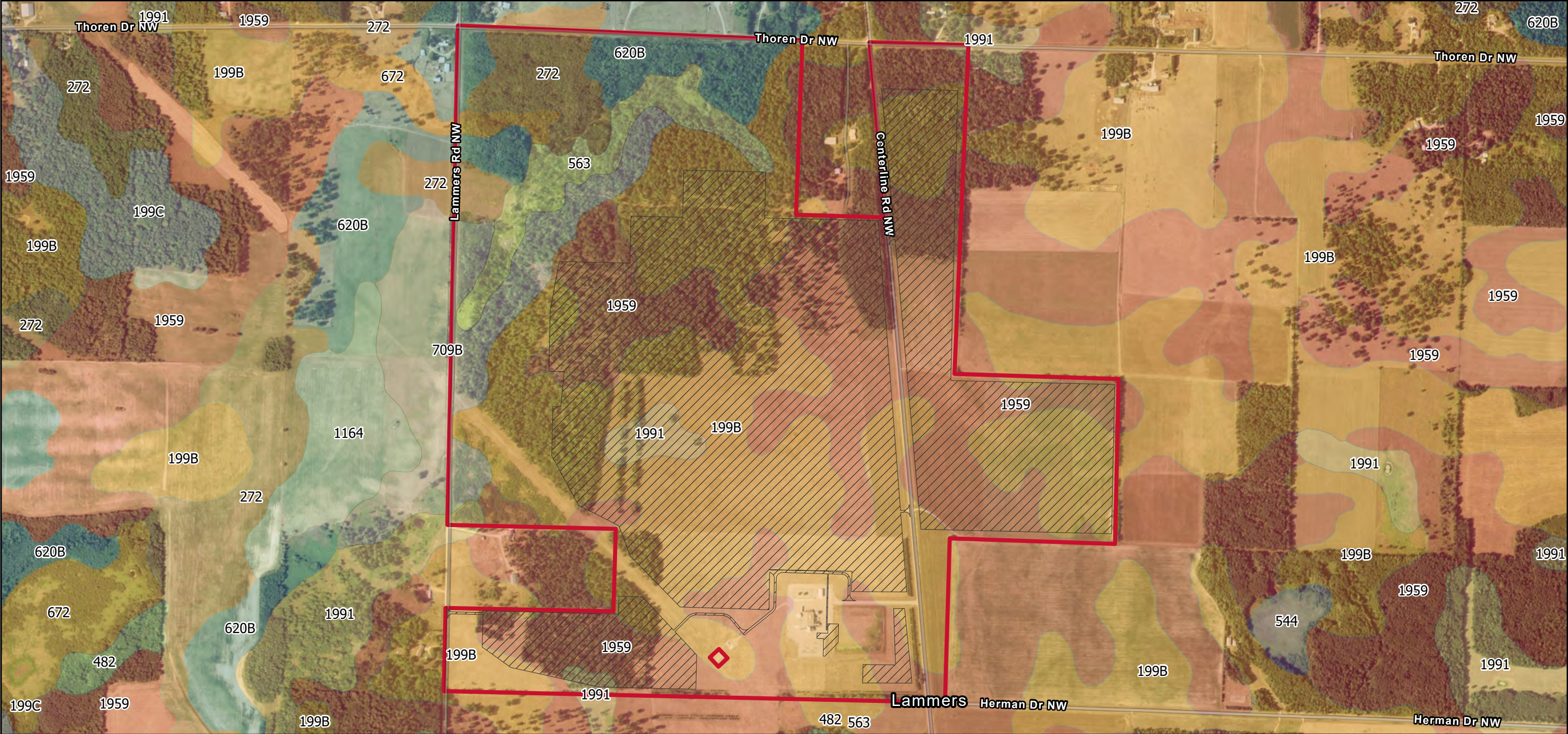
-  199C-Sol cobbly sandy loam, 6 to 12 percent slopes
-  272-Bemidji loamy sand
-  482-Grygla loamy fine sand
-  544-Cathro muck, occasionally ponded, 0 to 1 percent slopes

-  563-Northwood muck
-  620B-Cutaway loamy fine sand, 1 to 6 percent slopes
-  672-Wil提高ppi loam
-  709B-Lengby sandy loam, 1 to 6 percent slopes

Imagery Source : Source: Esri, USDA FSA, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri
Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US
Census Bureau, USDA, USFWS



Appendix A, Figure A-5a: SSURGO Soils and Project Footprint



Legend

-  Project Area
-  Project Footprint

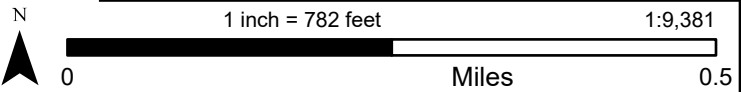
Map Unit Symbol/Map Unit Description

-  1164-Zerkel loam
-  1959-Nary cobbly fine sandy loam
-  1991-Stuntz loam
-  199B-Sol cobbly sandy loam, 1 to 6 percent slopes

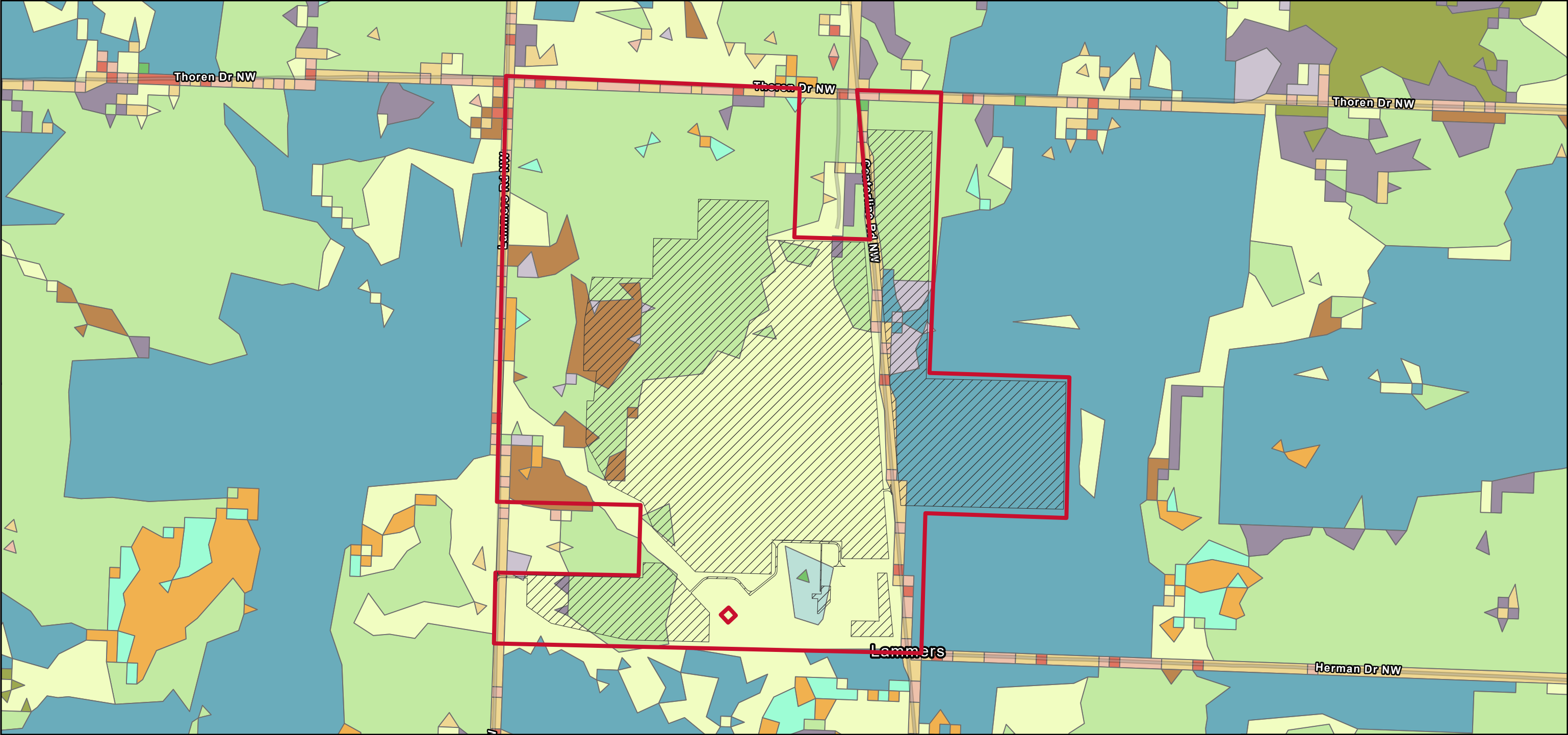
-  199C-Sol cobbly sandy loam, 6 to 12 percent slopes
-  272-Bemidji loamy sand
-  482-Grygla loamy fine sand
-  544-Cathro muck, occasionally ponded, 0 to 1 percent slopes
-  563-Northwood muck

-  620B-Cutaway loamy fine sand, 1 to 6 percent slopes
-  672-Wilsoippi loam
-  709B-Lengby sandy loam, 1 to 6 percent slopes

Imagery Source : Source: Esri, USDA FSA, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri
Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US
Census Bureau, USDA, USFWS



Appendix A, Figure A-6: Landuse/Landcover and Zoning



Legend

Project Area

Project Footprint

Classification

Barren Land (Rock/Sand/Clay)

Cultivated Crops

Deciduous Forest

Developed High Intensity

Developed, Low Intensity

Developed, Medium Intensity

Developed, Open Space

Emergent Herbaceous Wetlands

Evergreen Forest

Grassland/Herbaceous

Mixed Forest

Open Water

Pasture/Hay

Shrub/Scrub

Woody Wetlands

Imagery Source : Source: Esri, USDA FSA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

N

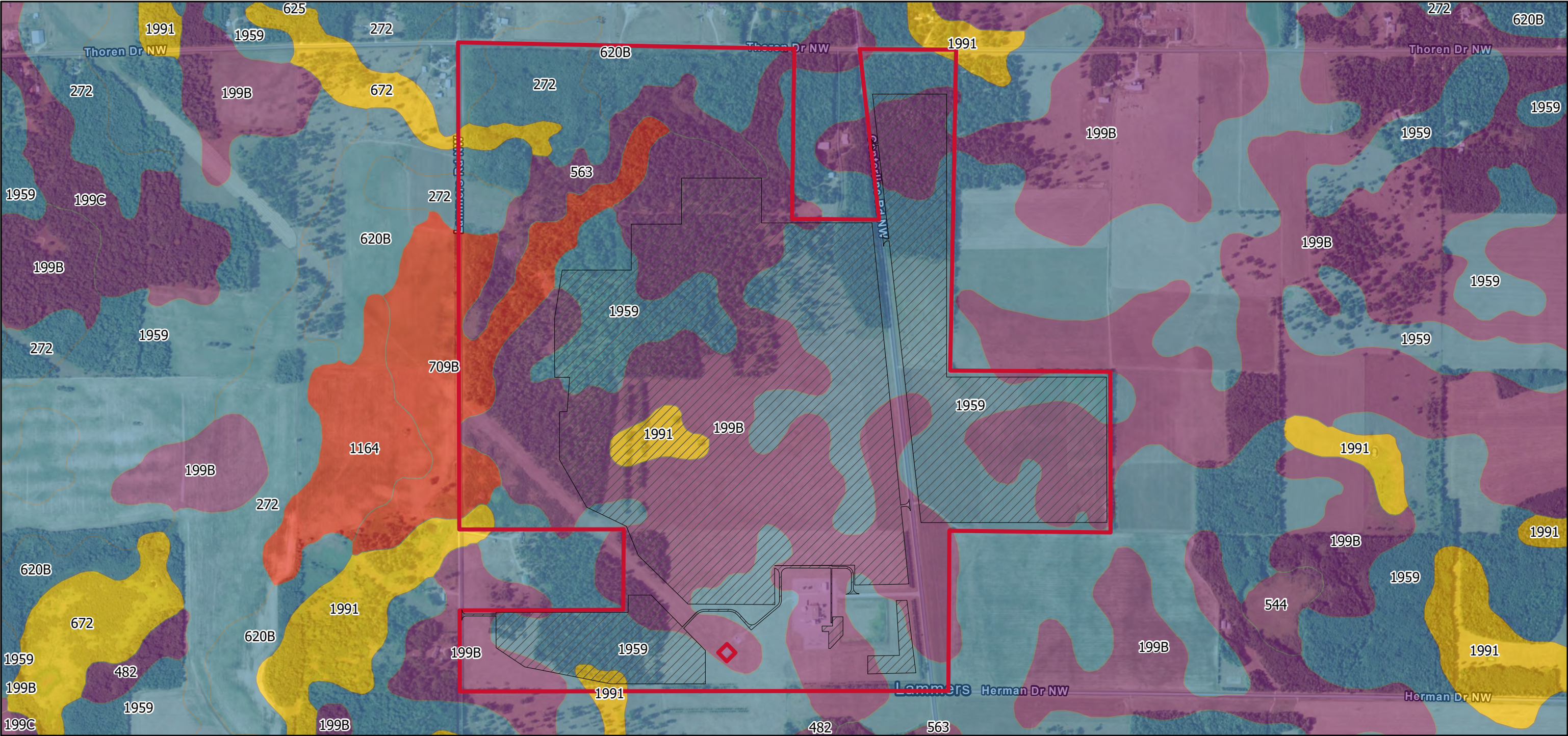
1 inch = 917 feet

02,000

Feet

1:11,000

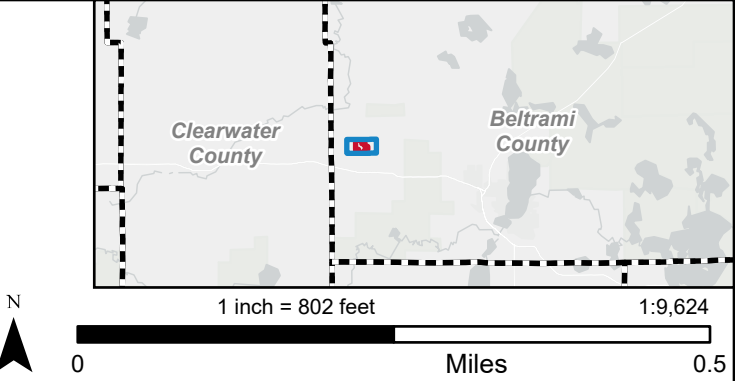
Appendix A, Figure A-7: Prime Farmland Soils



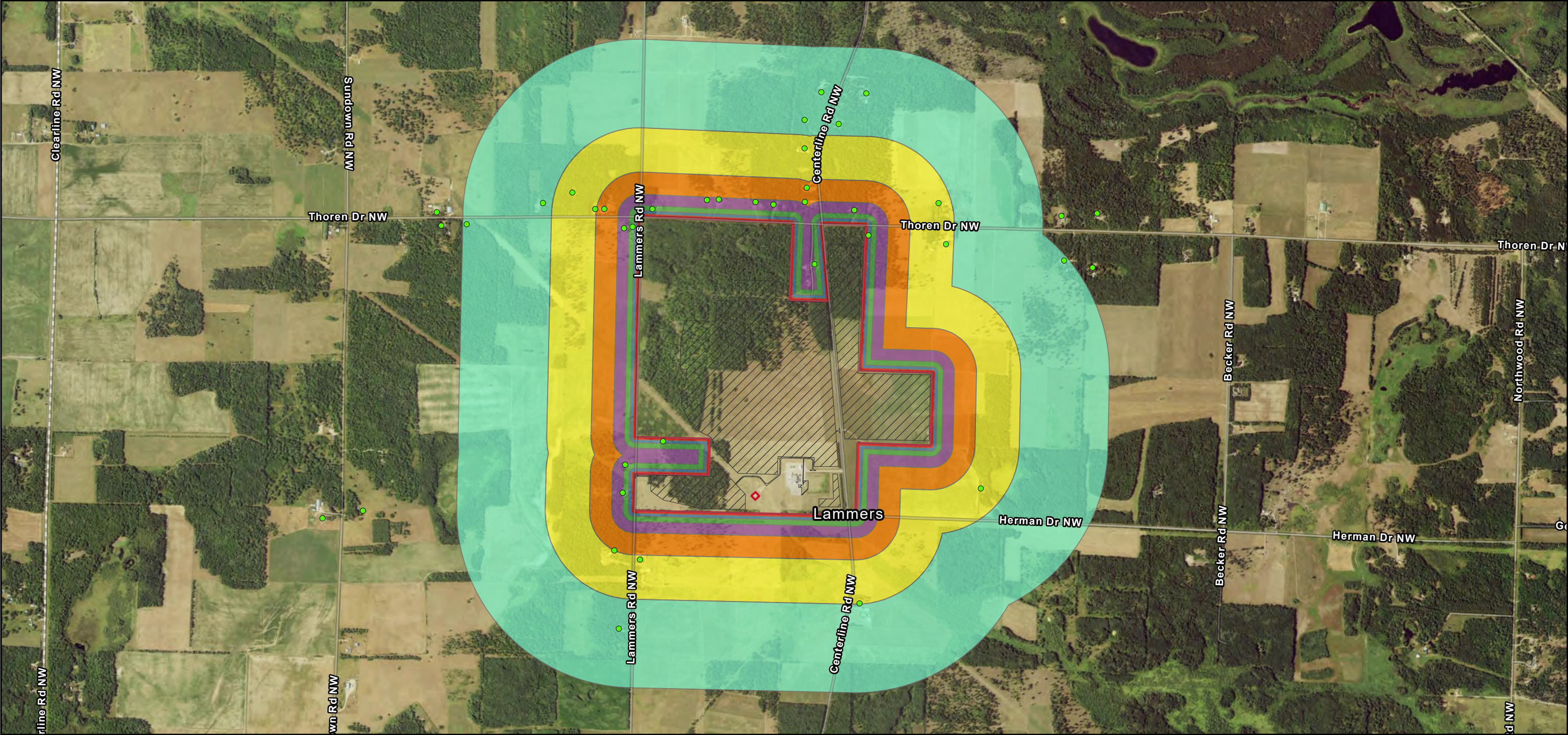
- Legend**
-  Project Area
 -  Project Footprint

- Farmland Class**
-  All areas are prime farmland
 -  Farmland of statewide importance
 -  Not prime farmland
 -  Prime farmland if drained

Imagery Source : Source: Esri, USDA FSA, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri
Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US
Census Bureau, USDA, USFWS



Appendix A, Figure A-8: Noise Receptors



- Legend**
- Residence
 - ▭ Project Area
 - ▨ Project Footprint

- Distance from Project**
- 50 feet
 - 100 feet
 - 200 feet

- 400 feet
- 800 feet
- 1600 feet
- 3200 feet



Imagery Source : Source: Esri, USDA FSA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

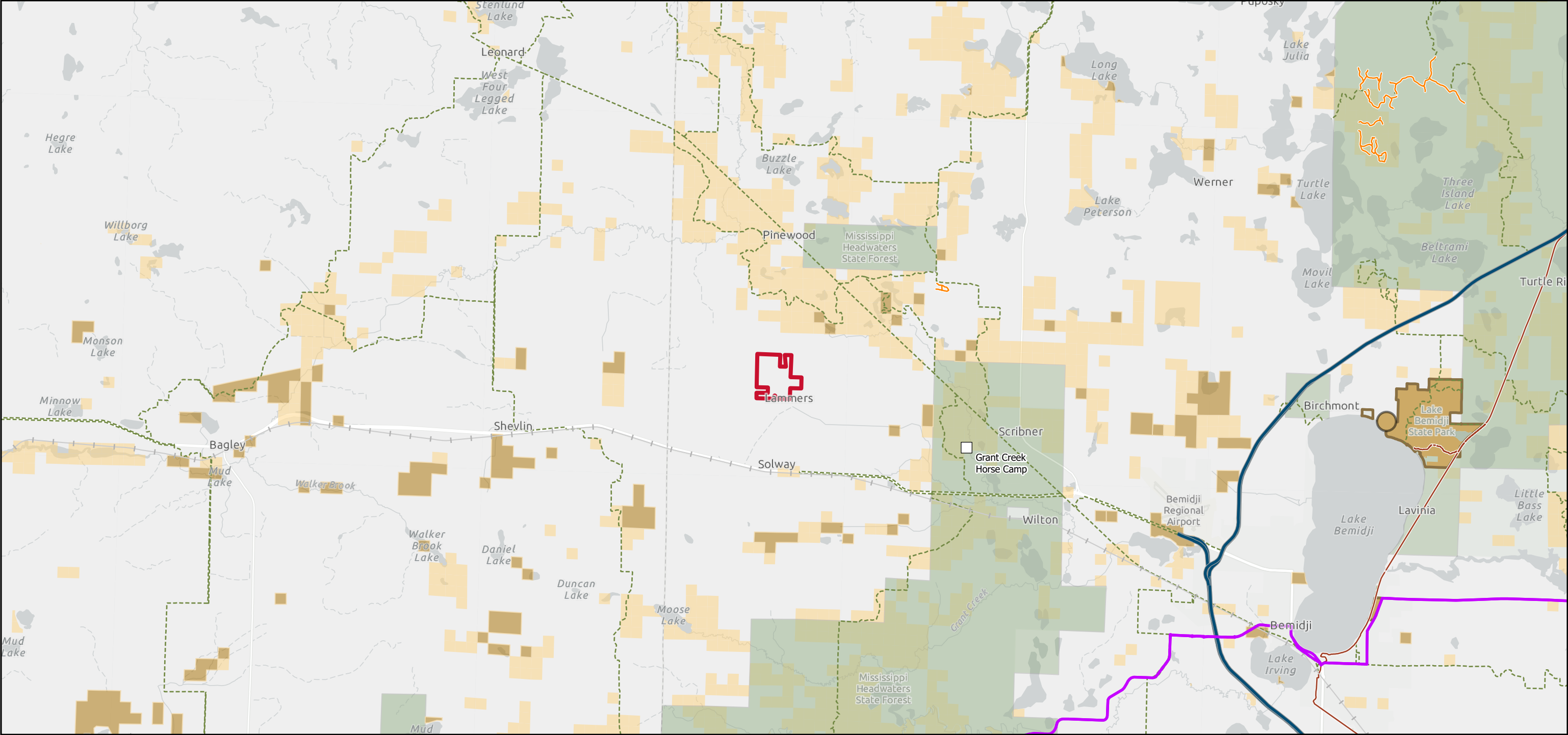


1 inch = 1,768 feet 1:21,212

0 Miles 0.5

Imagery Source: NAIP 2023

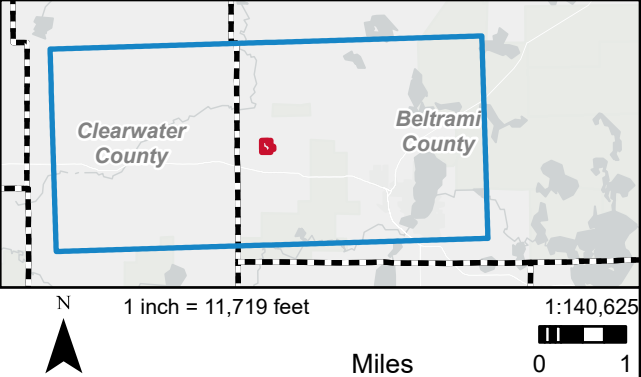
Appendix A, Figure A-9: Public Land Ownership and Recreation



- Legend**

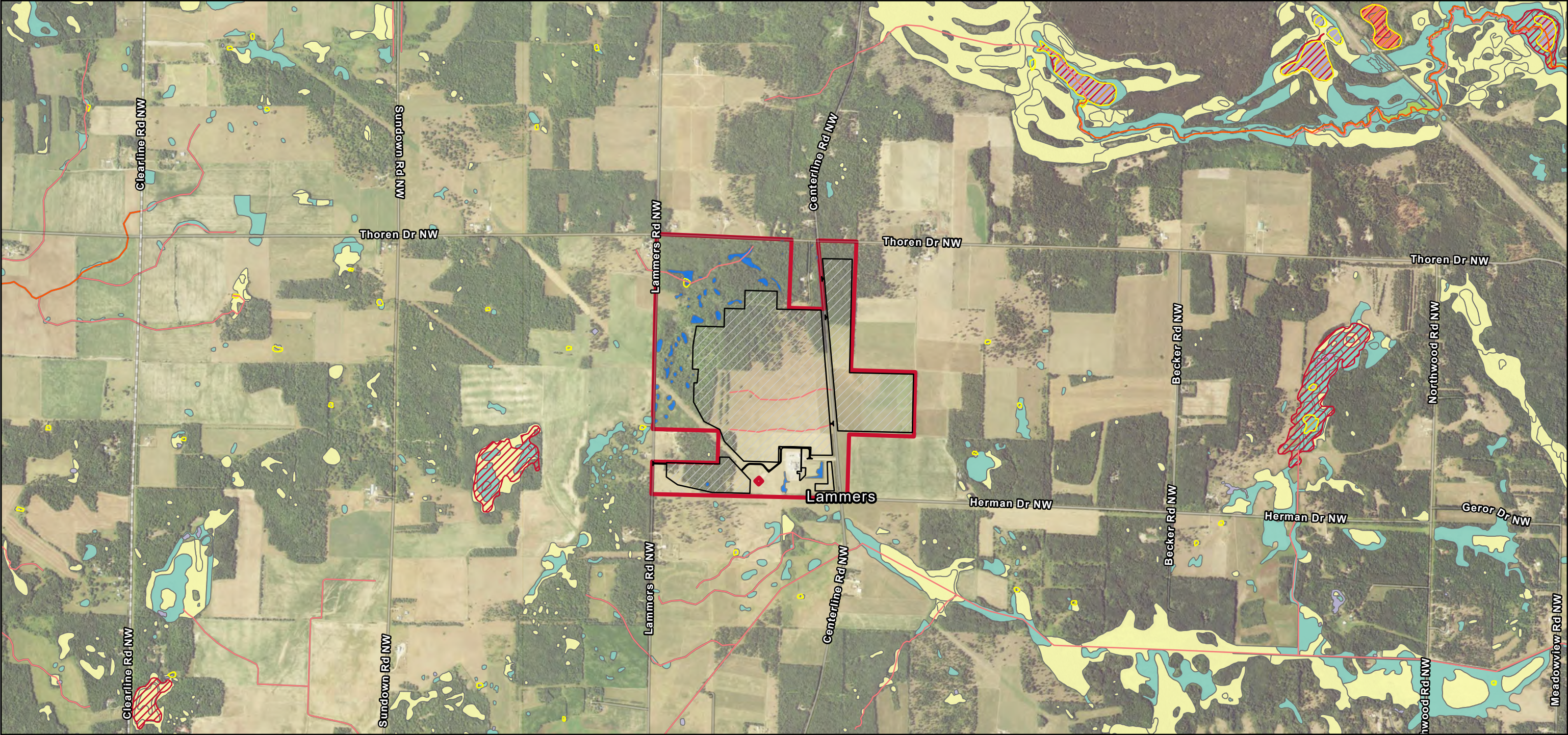
 -  Project Area
 -  Horse Camp
 -  Snowmobile Trails
 -  Hunter Walking Trails
 -  State Trail
 -  Railroad
 -  Memorial Routes
 -  Scenic Byways in Minnesota
 -  DNR Lands
 -  Federal Ownership
 -  State Forest
 -  State Forest (Other Lands)

NOTE: Maps for Beltrami County trails are digitized and available at Parks & Recreation | Beltrami County



Imagery Source : Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

Appendix A, Figure A-10: Surface Waters and Wetlands



Legend

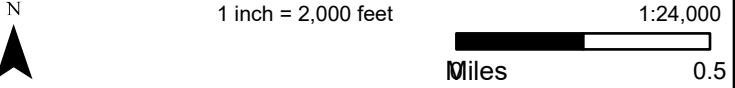
- Project Area
- PWI Stream
- PWI Waterbody
- NHD Stream/River
- Delineated Wetlands

NWI Wetland Type

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake

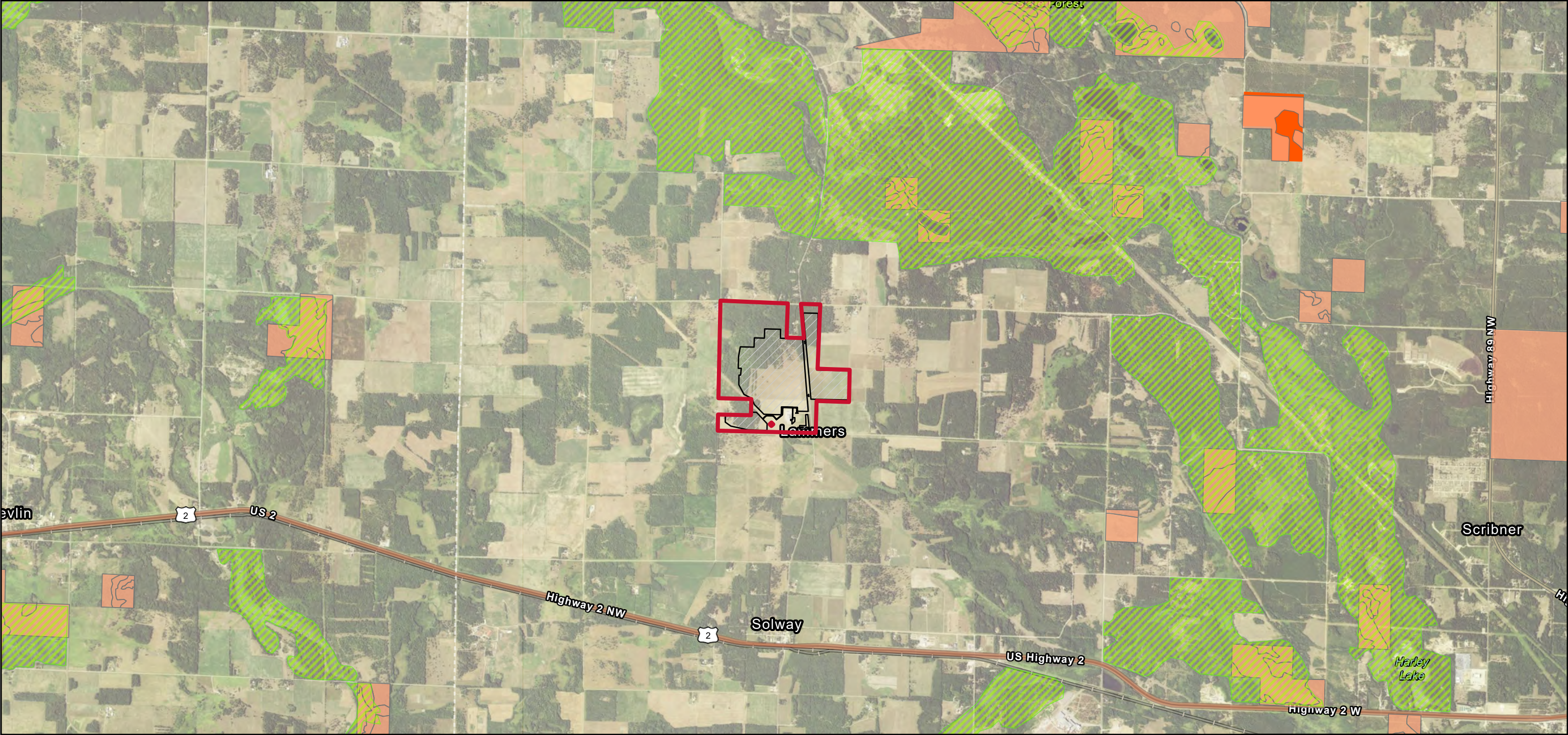
- Lakes
- Other
- Riverine
- NHD Waterbody
- Project Footprint

Imagery Source : Source: Esri, USDA FSA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS



Imagery Source: NAIP 2023

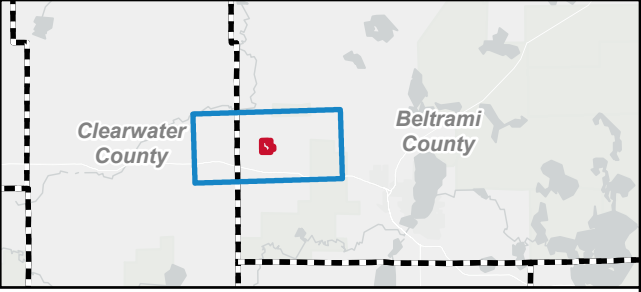
Appendix A, Figure A-11: Unique and Natural Features



- Legend**
-  Project Area
 -  Project Footprint
 -  Wildlife Managment Area
 -  MBS Sites of Biodiversity Significance
 -  Native Plant Communities (DNR)

Imagery Source : Source: Esri, USDA FSA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

N



1 inch = 4,000 feet

1:48,000

Miles

0

0.5

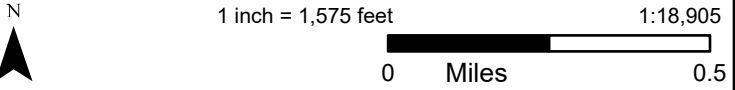
Imagery Source: NAIP 2023

Appendix A, Figure A-12: Land Ownership and Parcel Boundaries



- Legend**
-  Project Area
 -  ProjectParcels
 -  Tax Parcels
 -  Parcels Within and Adjacent to Project
 -  Civil Townships

Imagery Source : Source: Esri, USDA FSA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS



Imagery Source: NAIP 2023