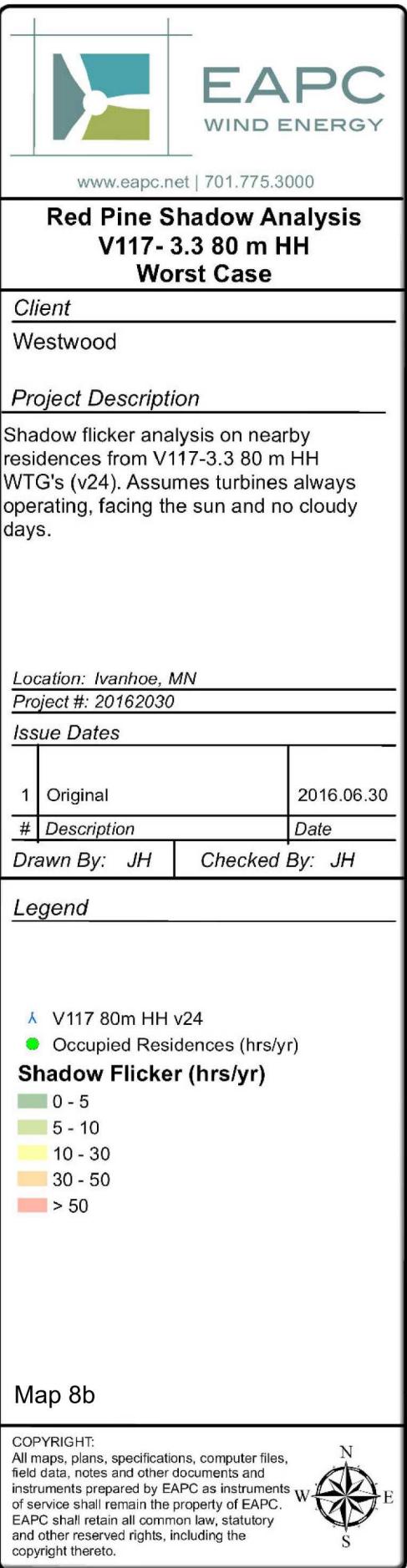
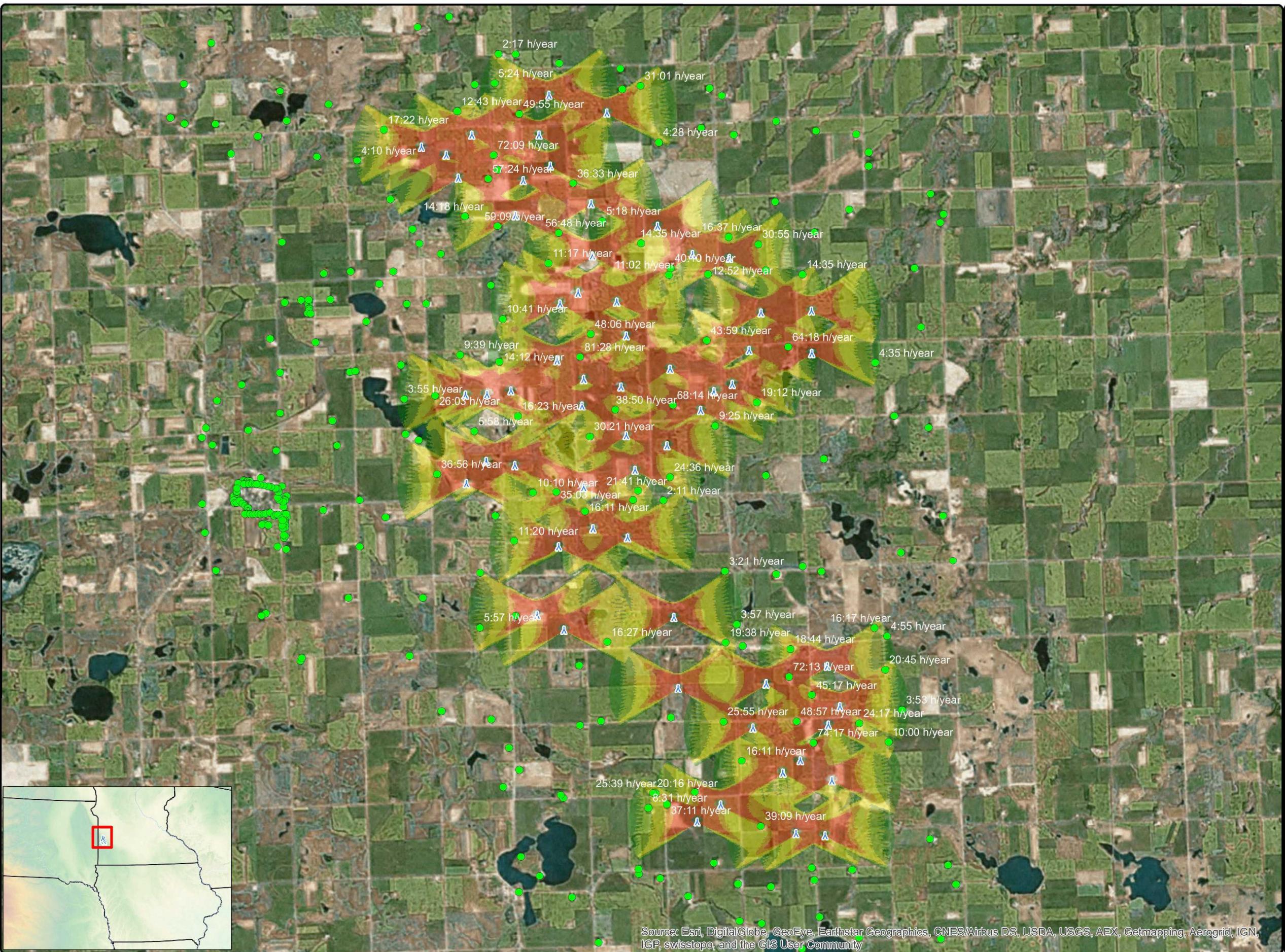
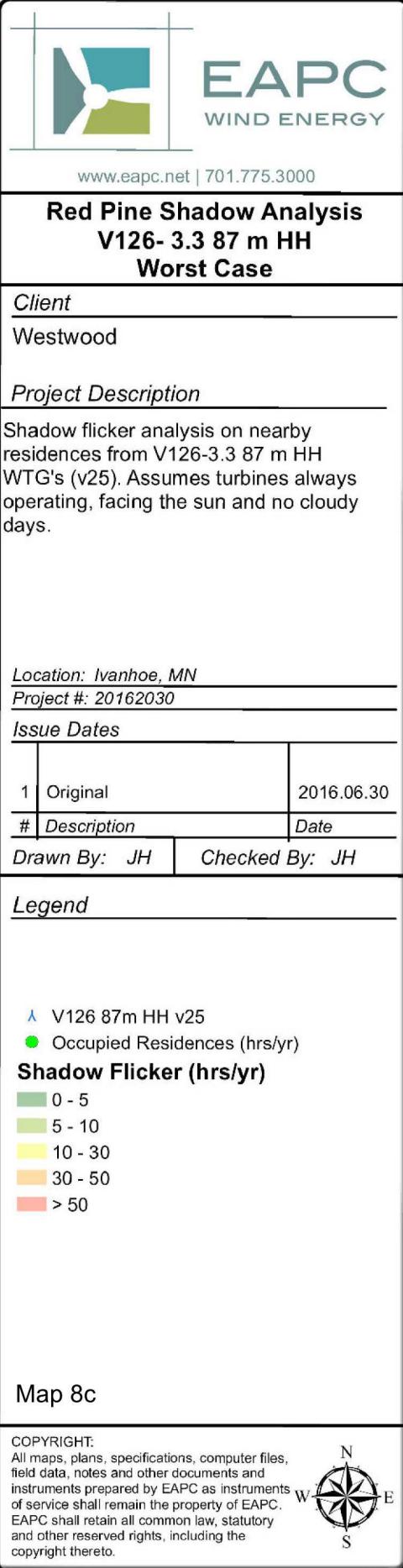
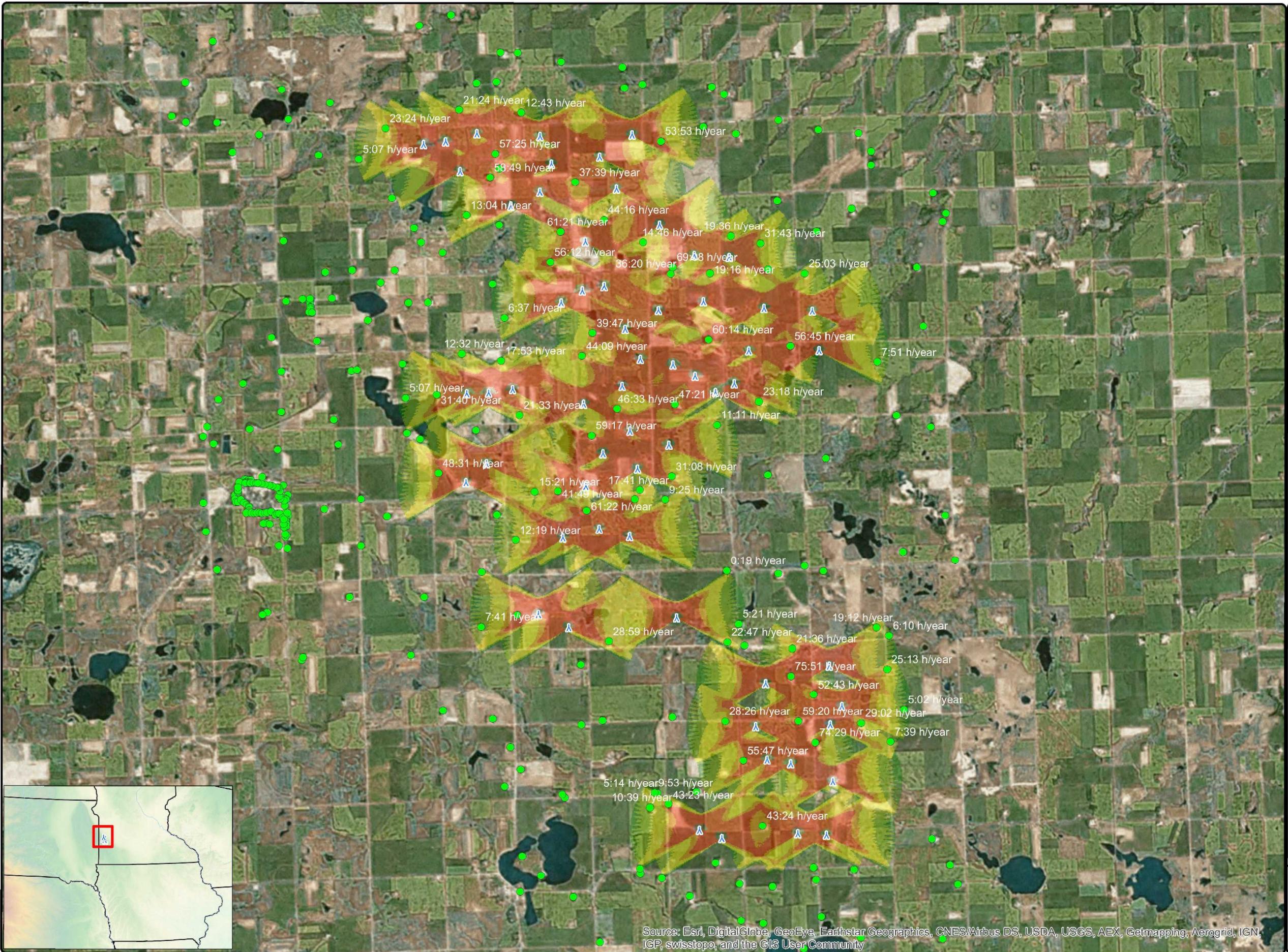


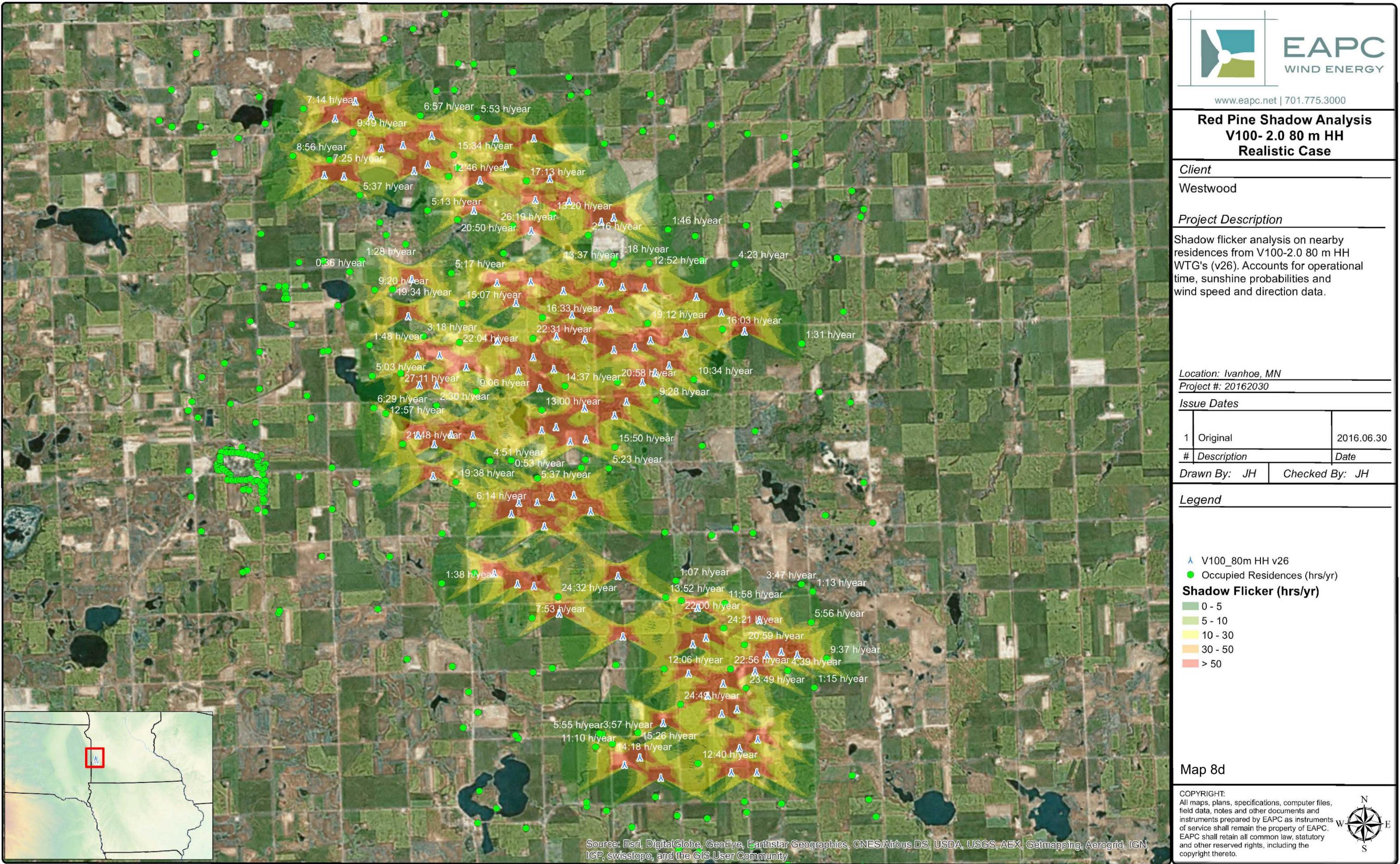
0 0.5 1 2 Mile





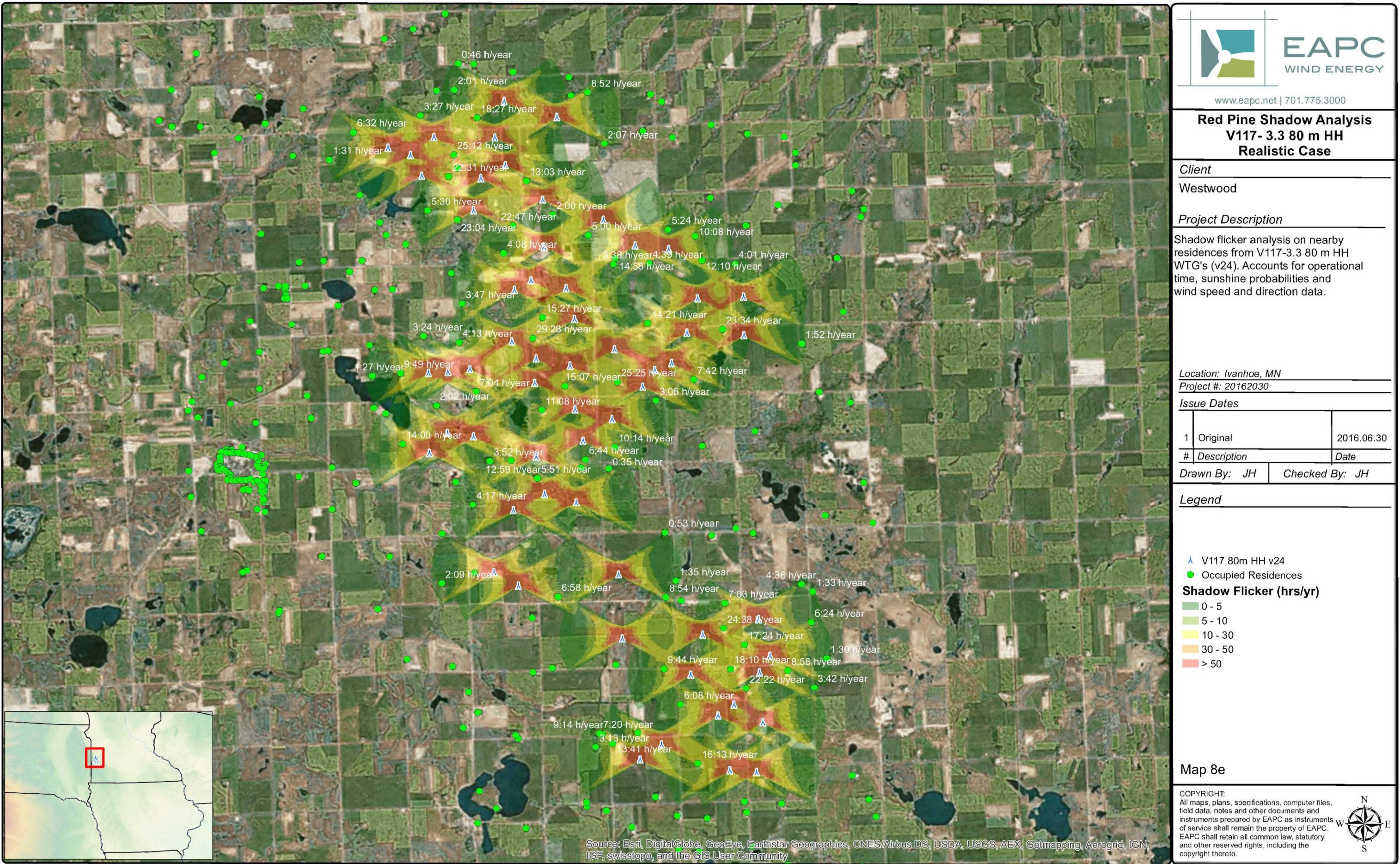
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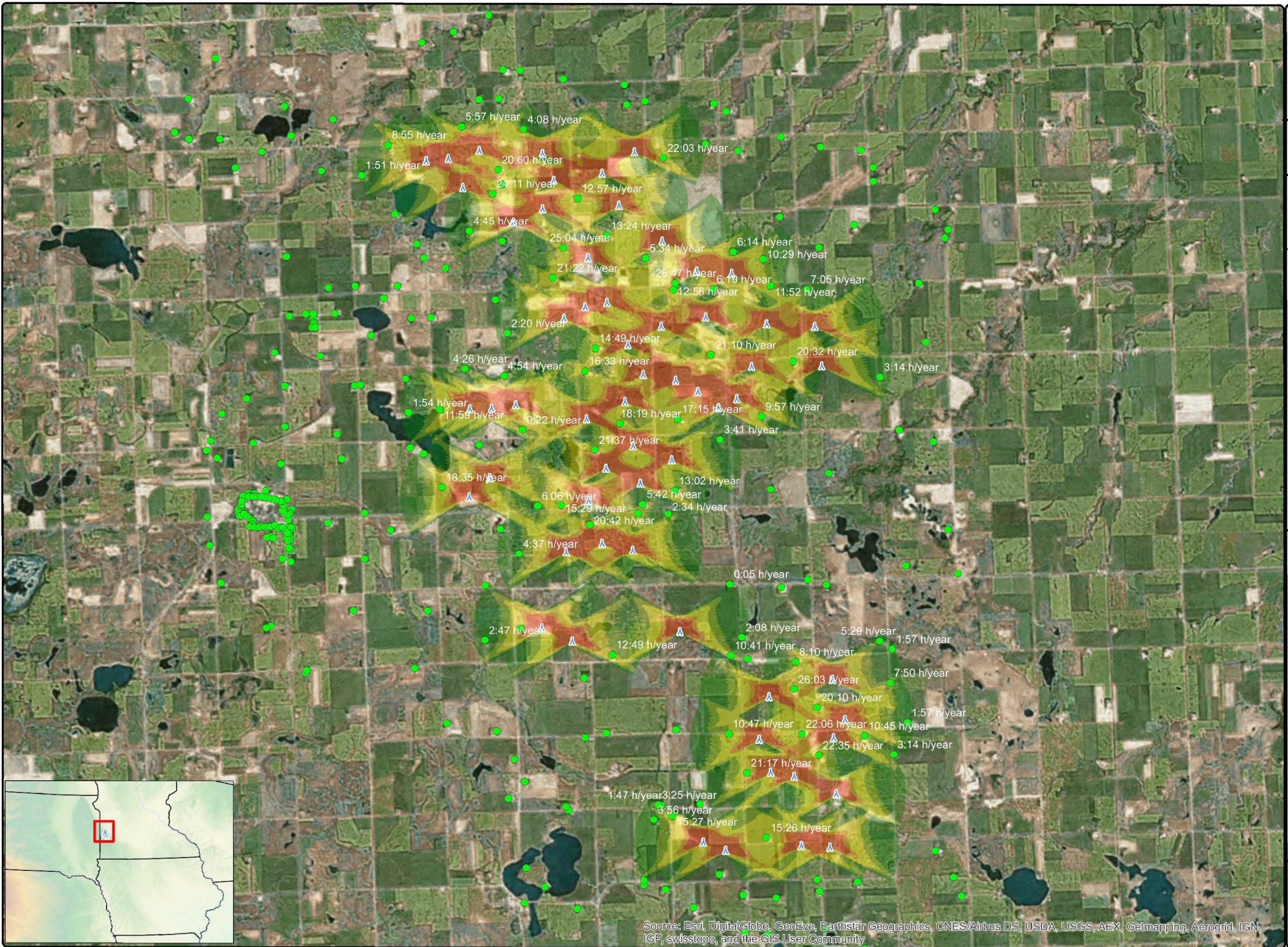
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0 0.5 1
2 Mile

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0 0.5 1
2 Mile

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Red Pine Shadow Analysis V126- 3.3 87 m HH Realistic Case

Client

Westwood

Project Description

Shadow flicker analysis on nearby residences from V125-3.3 87 m HH WTG's (v25). Accounts for operational time, sunshine probabilities and wind speed and direction data.

Location: Ivanhoe, MN

Project #: 20162030

Issue Dates

1	Original	2016.06.30
#	Description	Date
Drawn By:	JH	Checked By: JH

Legend

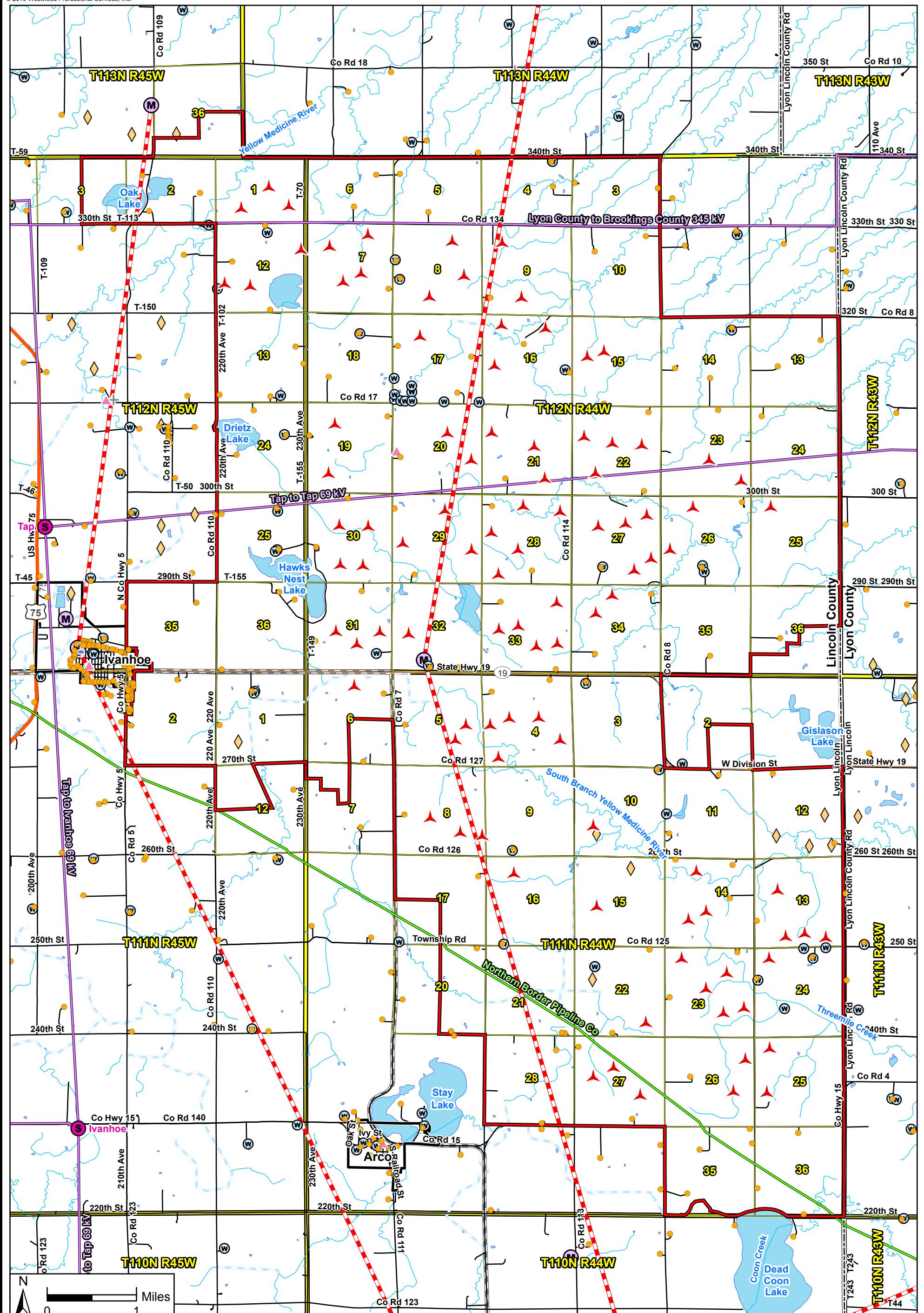
- ▲ V126 87m HH v25
- Occupied Residences (hrs/yr)
- Shadow Flicker (hrs/yr)**

 - 0 - 5
 - 5 - 10
 - 10 - 30
 - 30 - 50
 - > 50

Map 8f

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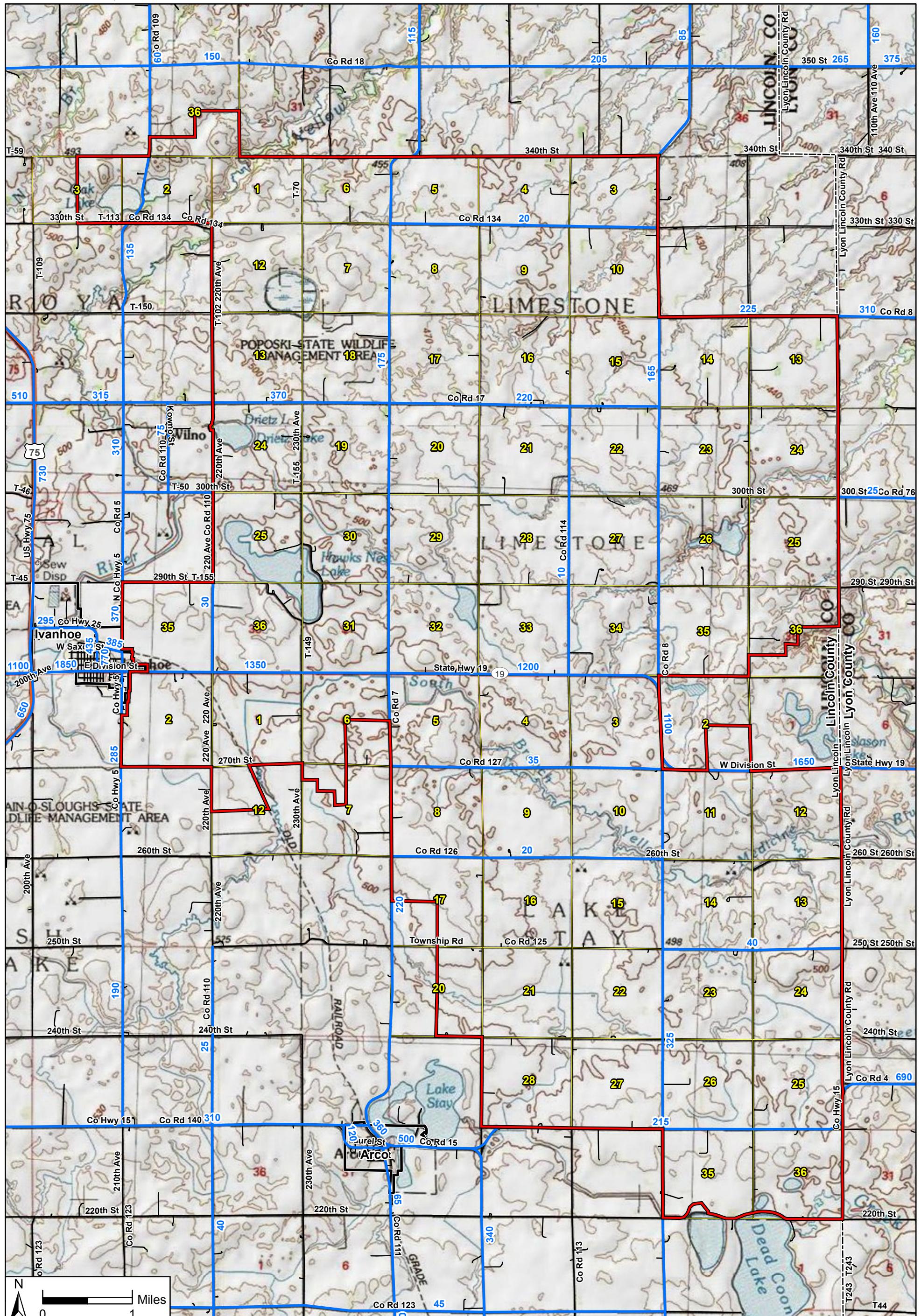


Red Pine Wind Project

Lincoln County, Minnesota

Infrastructure

Map 9

**Legend**

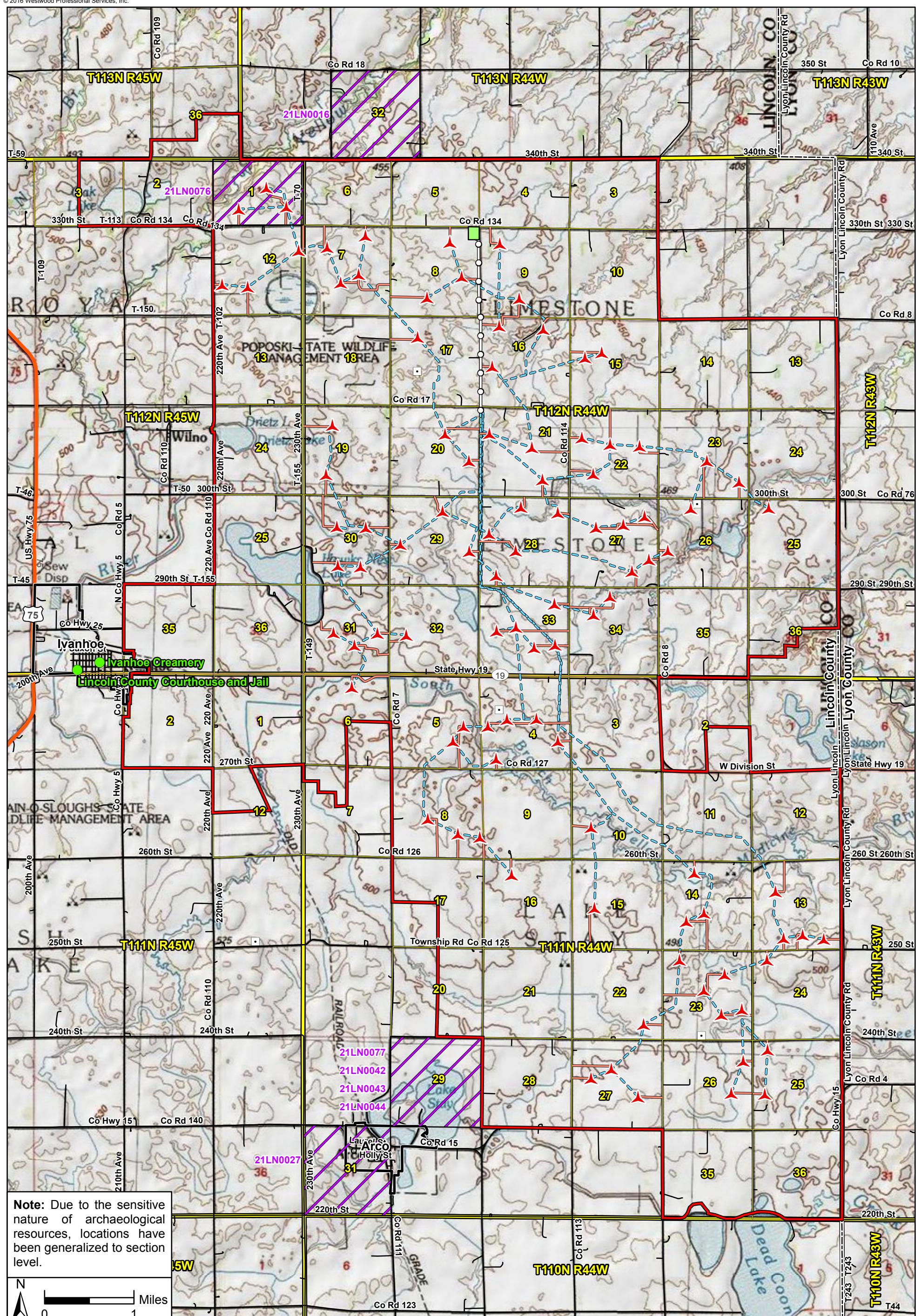
- | | | | |
|--|--------------------------|---------------------------------------|------------|
| | Current Project Boundary | — | AADT Count |
| | Municipal Boundary | — | Highway |
| | County Boundary | — | Major Road |
| | PLS Section Boundary | — | Minor Road |

Red Pine Wind Project

Lincoln County, Minnesota

Annual Average Daily Traffic (AADT)

Map 10



Data Source(s): Westwood (2016); ESRI WMS USA Topo Basemap Imagery (Accessed 2016); ESRI (2012); MNDNR (2010); Census Bureau (2015).

Legend

- ▲ Proposed Turbine (V100)
- Met Tower
- Current Project Boundary
- NRHP Listed or Eligible Historic Structure
- PLS Section with Archaeological Site(s)
- Proposed Access Road
- - - Proposed Collection Line
- Proposed Substation
- PLS Township Boundary
- PLS Section Boundary
- ○ Proposed Transmission Line

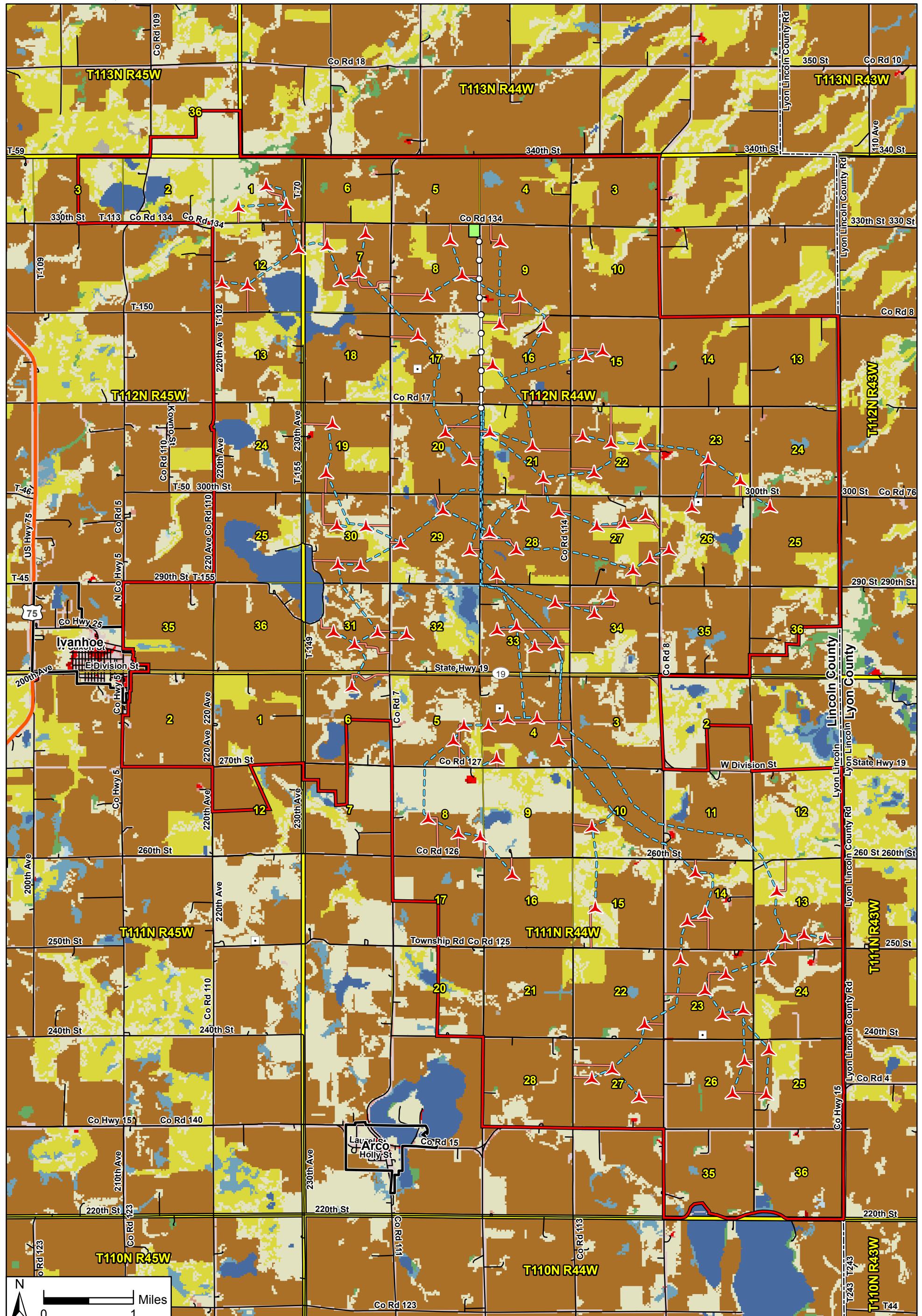
- Municipal Boundary
- County Boundary
- Highway
- Major Road
- Minor Road
- + Railroad

Red Pine Wind Project

Lincoln County, Minnesota

Previously Recorded Cultural Resources

Map 11



Red Pine Wind Project

Lincoln County, Minnesota

Land Cover

Map 12