LIDAR archaeology applications

Dane County Heritage Preservation Commission

November 26, 2024
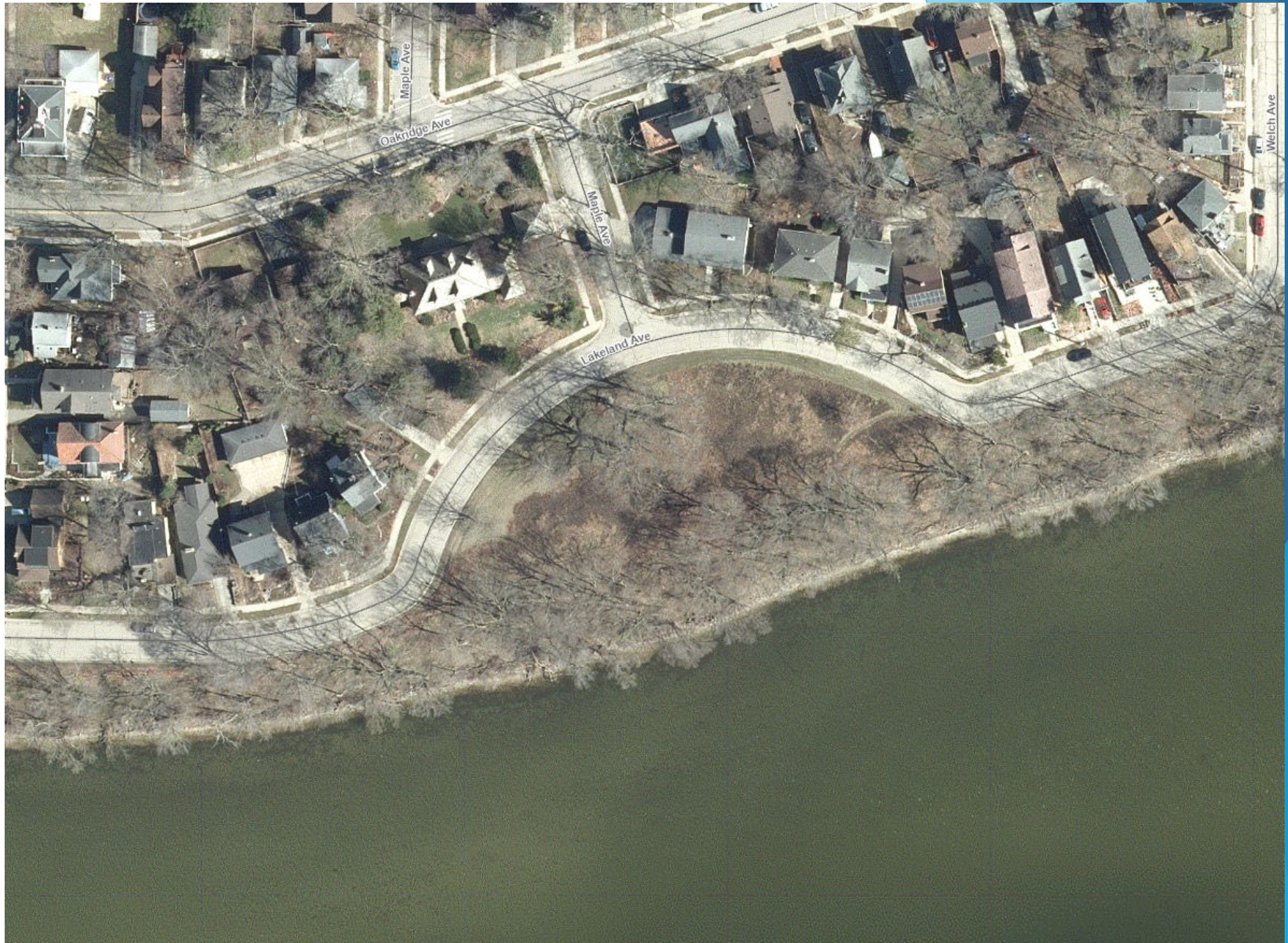
2025 UW Department of Planning and Landscape Architecture / Dane County Planning and Development Project Proposal

Work with

- Dane County Heritage Preservation Commission
- Ho-Chunk Nation
- Wisconsin Historical Society
- UW Department of Planning and Landscape Architecture (DPLA)
- UW Department of Information Technology (DoIT)
- and Dane County Land Information Office (DCLIO)

to develop a machine learning tool to scan digital elevation models to identify potential effigy mounds and other archaeological resources.

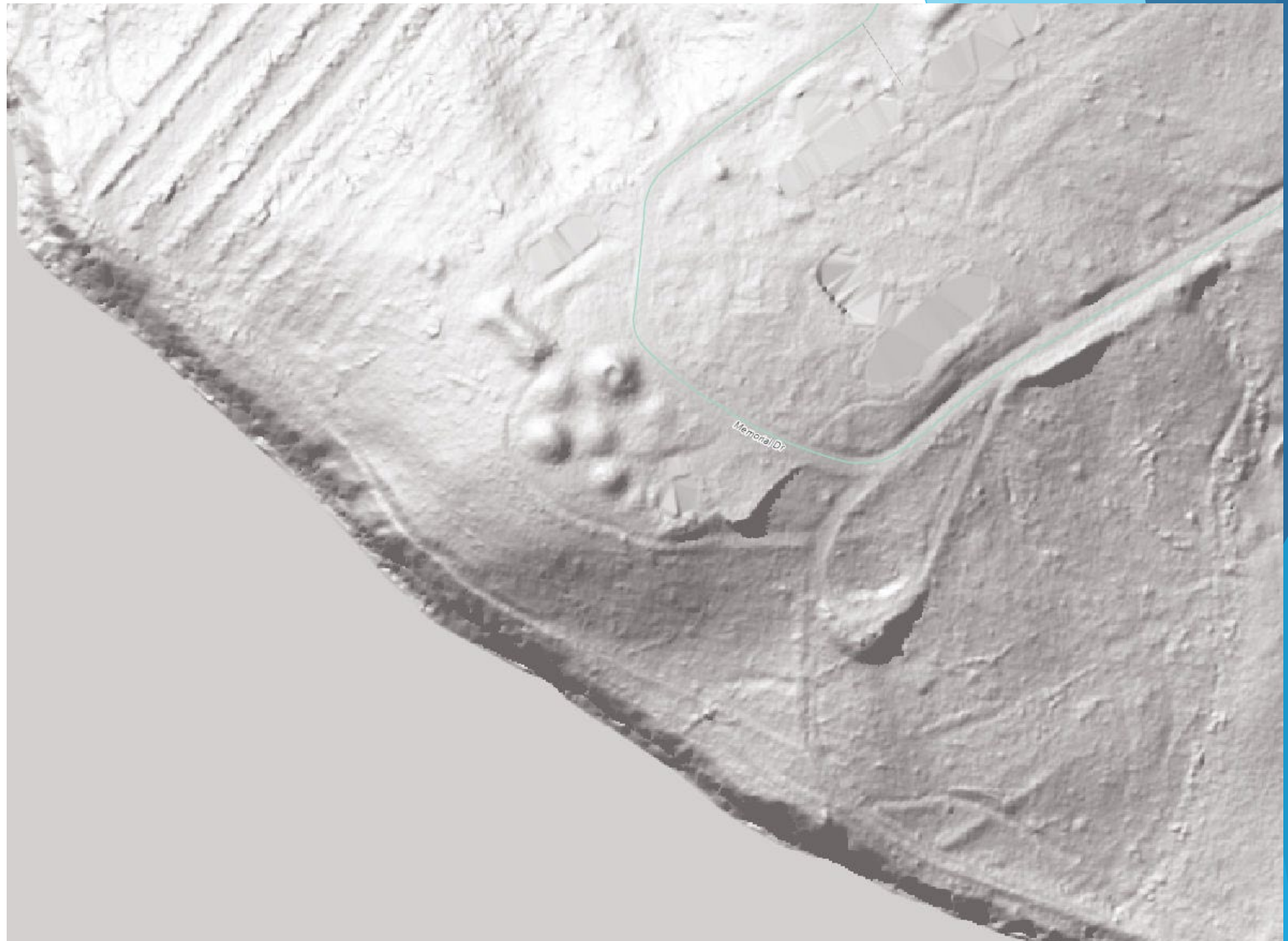# Elmside Park Mounds

2022 Aerial Photography

Elmside Park Mounds
2022 Digital Elevation Model (from LIDAR)

Mendota Mental Health (Farwell's Point) Mounds
2022 Aerial Photography

Mendota Mental Health (Farwell's Point) Mounds

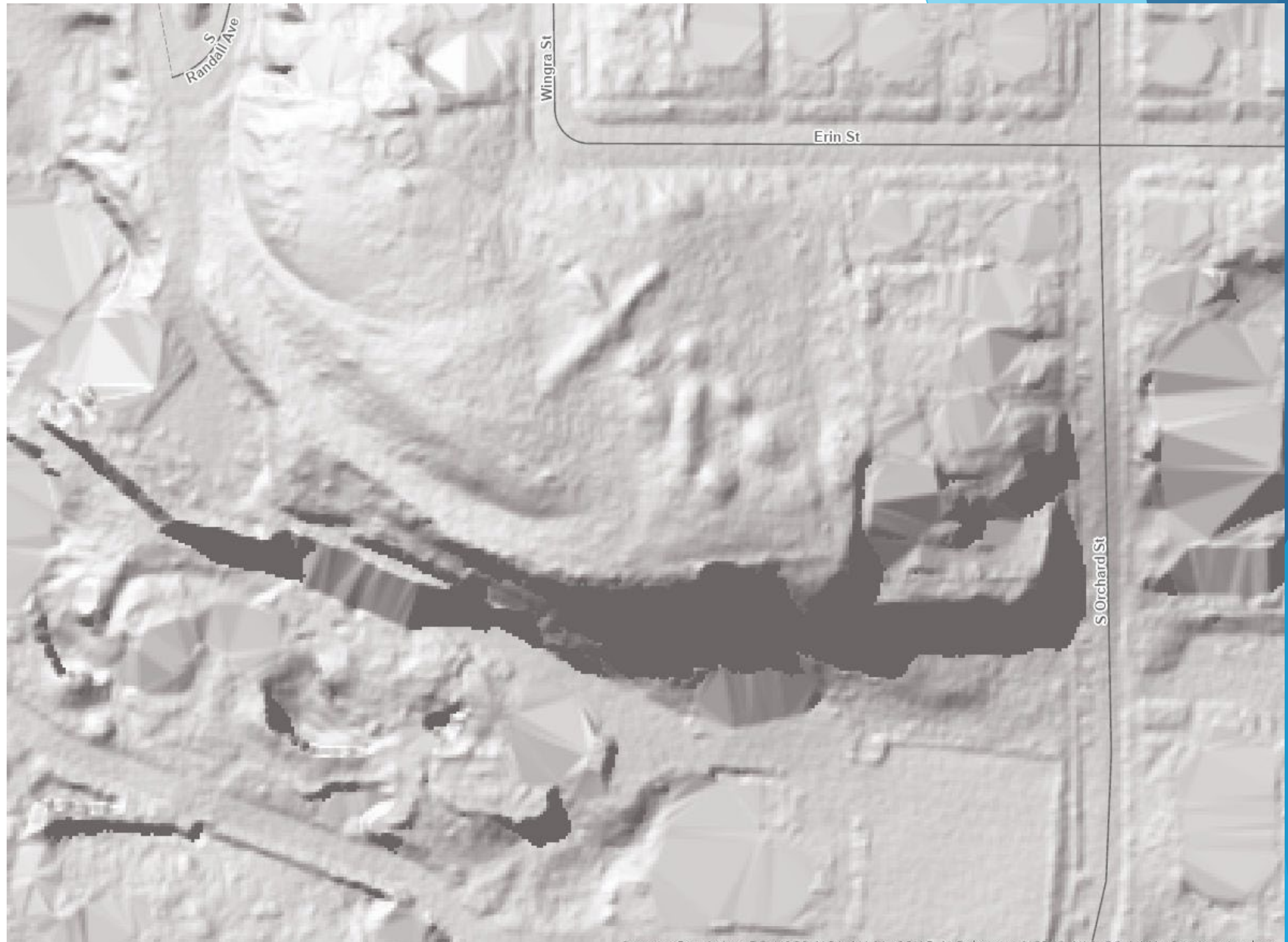## 2022 Digital Elevation Model (from LIDAR)

Vilas Park Mounds
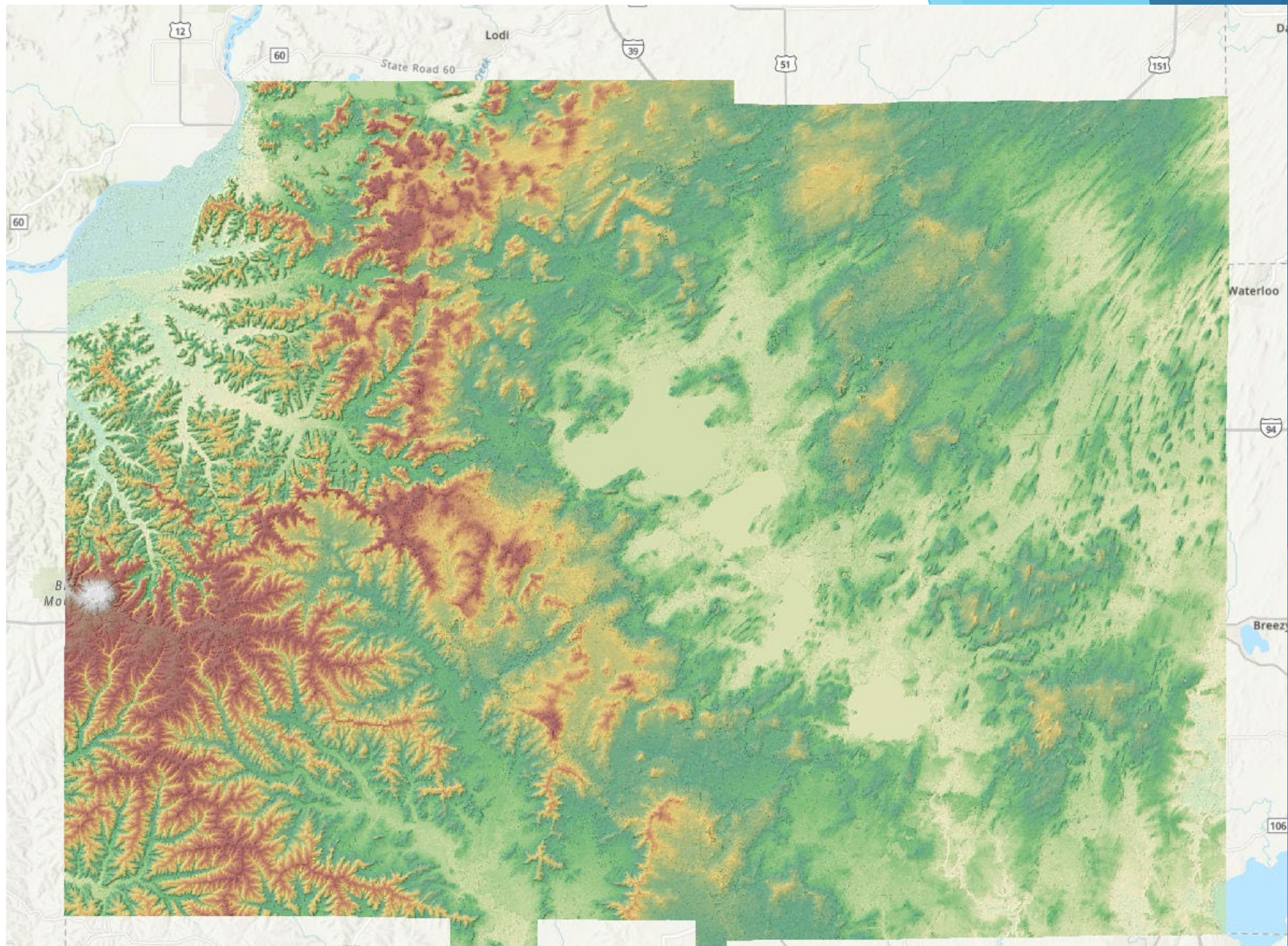## 2022 Aerial Photography

Vilas Park Mounds
2022 Digital Elevation Model (from LIDAR)

Questions:

- Can we scan the entire county digital elevation model for signs of possible mounds or other archaeological resources?

- Could we fly a special LIDAR survey focused on underwater resources?

- Can we add such data to the WHS archaeology inventory?

- How can we use such data for planning purposes, while protecting the resource?

Project Resources for 2025

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