













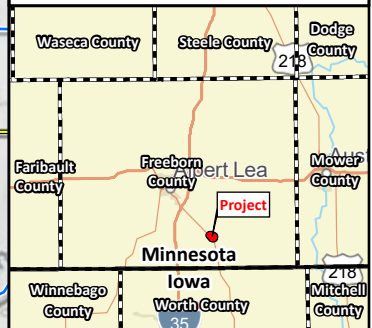
# **Project Figures**

**Midwater Energy Storage Project**  
Shell Rock Township,  
Freeborn County, Minnesota  
Project Location &  
USGS Topography

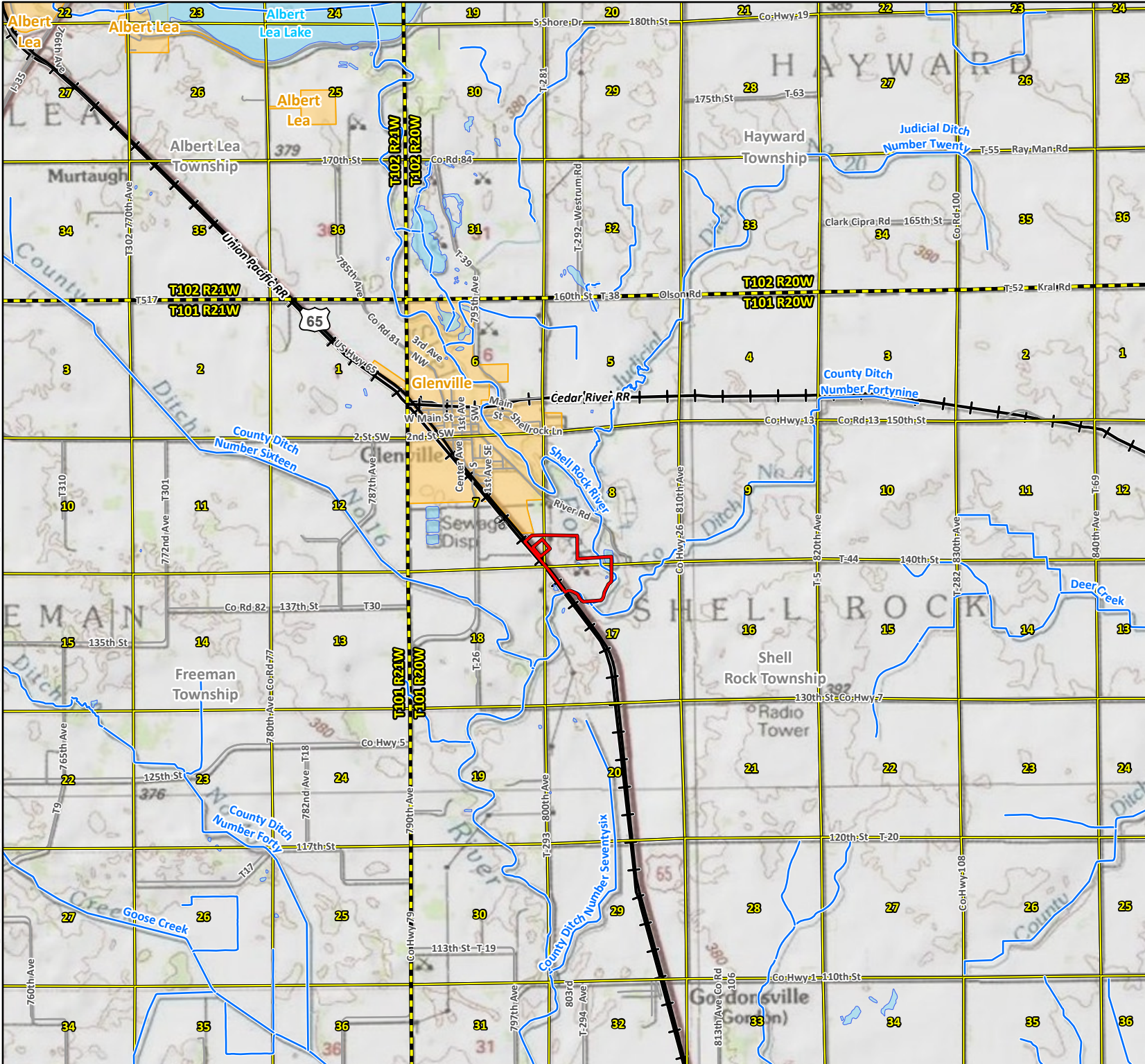
Figure 1 (August, 2024)

- Legend**
-  Project Area
  -  State Boundary
  -  County Boundary
  -  PLSS Township Boundary
  -  PLSS Section Boundary
  -  Civil Township Boundary
  -  Municipal Boundary
  -  NHD Waterbody
  -  NHD Flowline
  -  Major Road
  -  Road
  -  Railroad

Data Source(s): Westwood (2024); ESRI WMS USA Topo & World Streets Basemaps (Accessed 2024); PLSS (2022); U.S. Census Bureau (2021 & 2023); MNDOT (2024); NHD (2024).



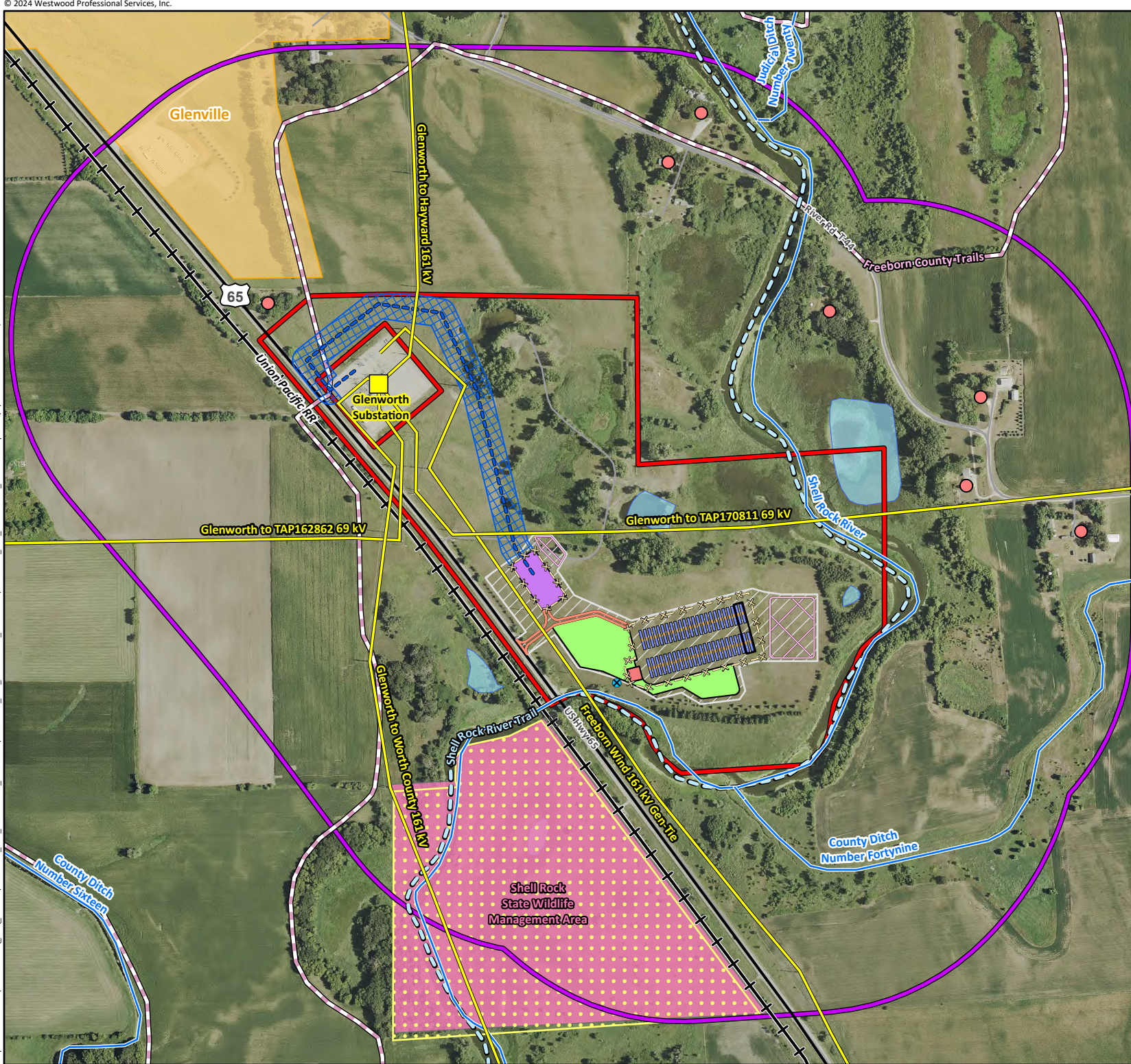
Map Document: N:\0046089\001\_GIS\_AcPrj\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx, 8/26/2024, 1:11 PM MMQuadre



**Midwater Energy Storage Project**  
 Shell Rock Township,  
 Freeborn County, Minnesota

**Project Area & Facilities**

Figure 2 (November, 2024)



**Legend**

- Project Area
- Project Area Quarter-Mile Buffer
- Municipal Boundary
- Wildlife Management Area
- NHD Waterbody
- NHD Flowline
- Water Trail
- Snowmobile Trail
- Existing Transmission Line
- Existing Substation
- Receptor
- Major Road
- Road
- Railroad

**PADUS Designation**

- State Conservation Area

**Proposed Site Features**

- Proposed BESS Facility & Project Development Area
- Proposed Substation
- Proposed O&M Facility
- Proposed Auxiliary Transformer
- Proposed BESS Unit
- Proposed Future Augmentation Area
- Proposed Laydown Yard
- Proposed Basin Area
- Proposed HVTL Facility & Project Development Area
- Proposed Fence Line
- Proposed Tap Line
- Proposed Access Road
- ⊗ Proposed Leach Field

Data Source(s): Westwood (2024); NAIP (2023); MNDOT (2024); MNDNR (2022 & 2024); NHD (2024); HIFLD (2022 & 2024); U.S. Census Bureau (2021 & 2023); PADUS (2024).



Map Document: N:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx 11/6/2024 9:54 AM MMQuadre















# Midwater Energy Storage Project

Shell Rock Township,  
Freeborn County, Minnesota

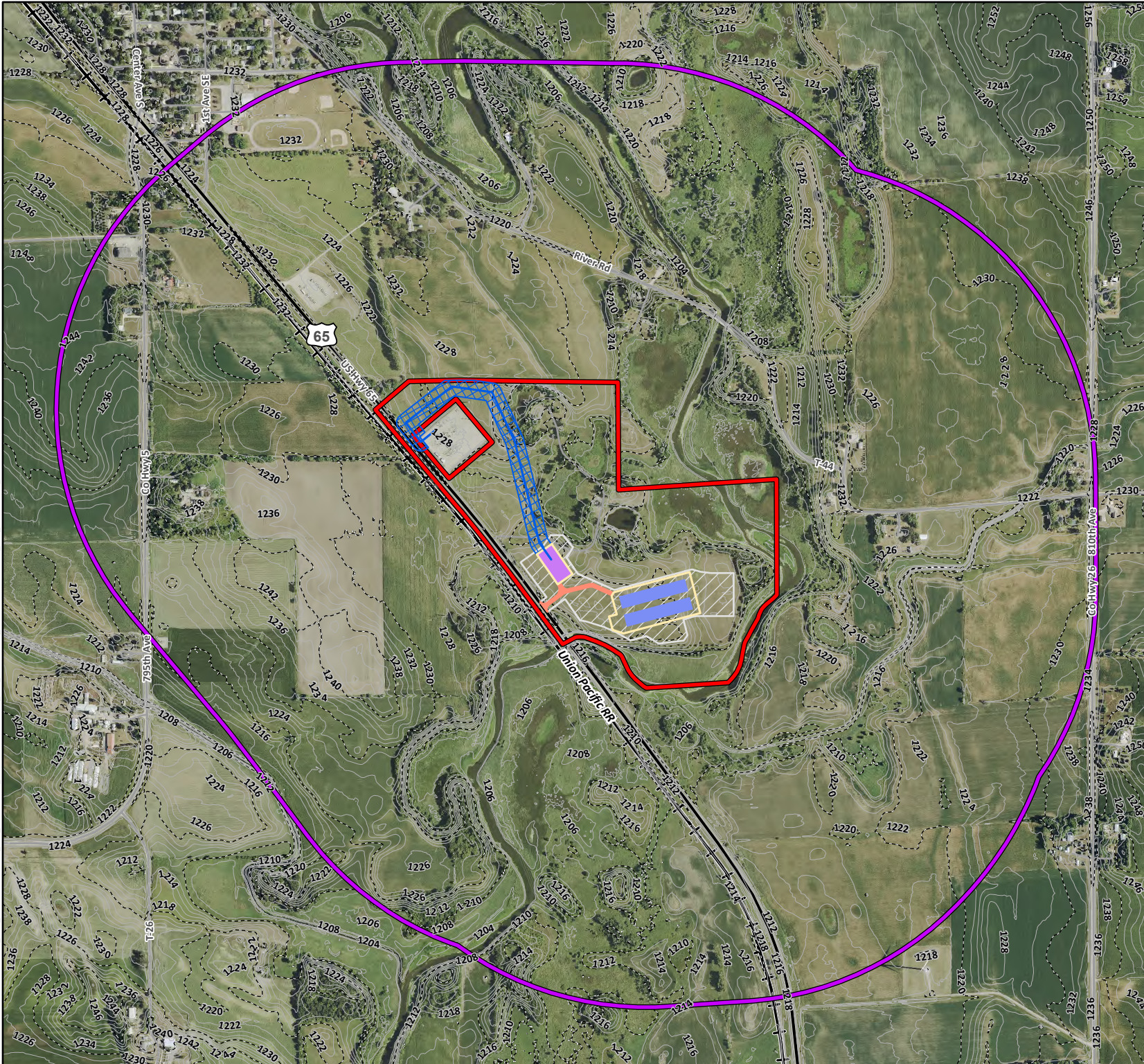
Topographic Map

Figure 3 (September, 2024)

### Legend

-  Project Area
  -  Project Area Half-Mile Buffer
  -  Major Road
  -  Road
  -  Railroad
  -  10ft Contour
  -  2ft Contour
- ### Proposed Site Features
-  Proposed BESS Facility & Project Development Area
  -  Proposed Substation
  -  Proposed BESS Area
  -  Proposed HVTL Facility & Project Development Area
  -  Proposed Fence Line
  -  Proposed Tap Line
  -  Proposed Access Road

Map Document: N:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx, 9/24/2024, 8:14 AM MMQuadre



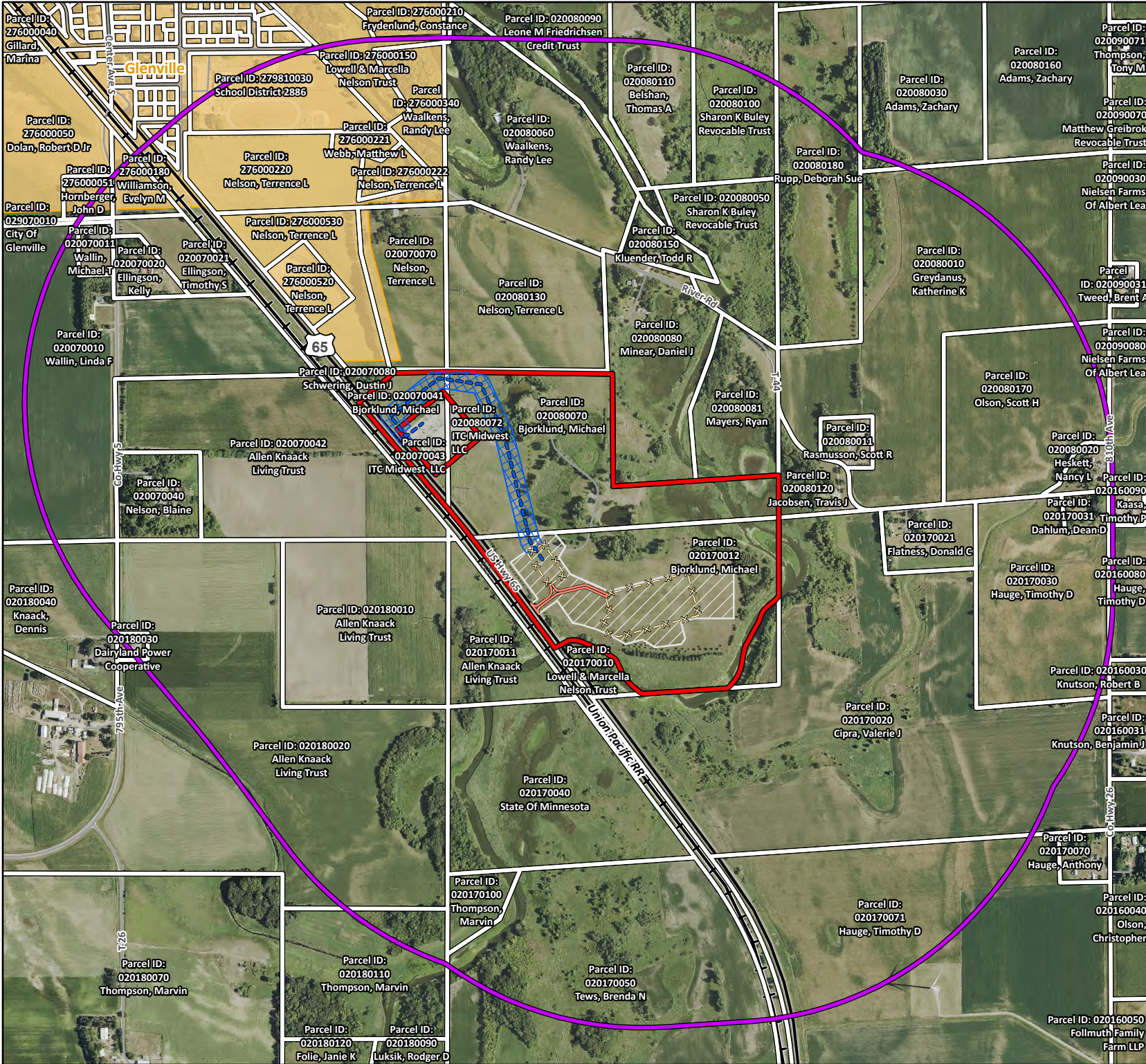
Data Source(s): Westwood (2024); NAIIP (2023); U.S. Census Bureau (2021 & 2023); USGS 3DEP (Accessed 2024).



# Midwater Energy Storage Project

Shell Rock Township,  
Freeborn County, Minnesota  
Land Ownership &  
Parcel Boundaries

Figure 4 (September, 2024)



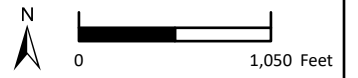
**Legend**

- Project Area
- Project Area Half-Mile Buffer
- Parcel Boundary
- Municipal Boundary
- Major Road
- Road
- ++ Railroad

**Proposed Site Features**

- Proposed BESS Facility & Project Development Area
- Proposed HVTL Facility & Project Development Area
- Proposed Fence Line
- Proposed Tap Line
- Proposed Access Road

Data Source(s): Westwood (2024); NAIIP (2023); MNDOT (2024); U.S. Census Bureau (2021 & 2023).



Map Document: N:\0046089\001\_GIS\_Acpr\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx, 9/24/2024, 8:19 AM MMQuade





### Midwater Energy Storage Project

Shell Rock Township,  
Freeborn County, Minnesota












#### Land Cover

Figure 5 (August, 2024)

#### Legend

-  Project Area
-  Major Road
-  Road
-  Railroad

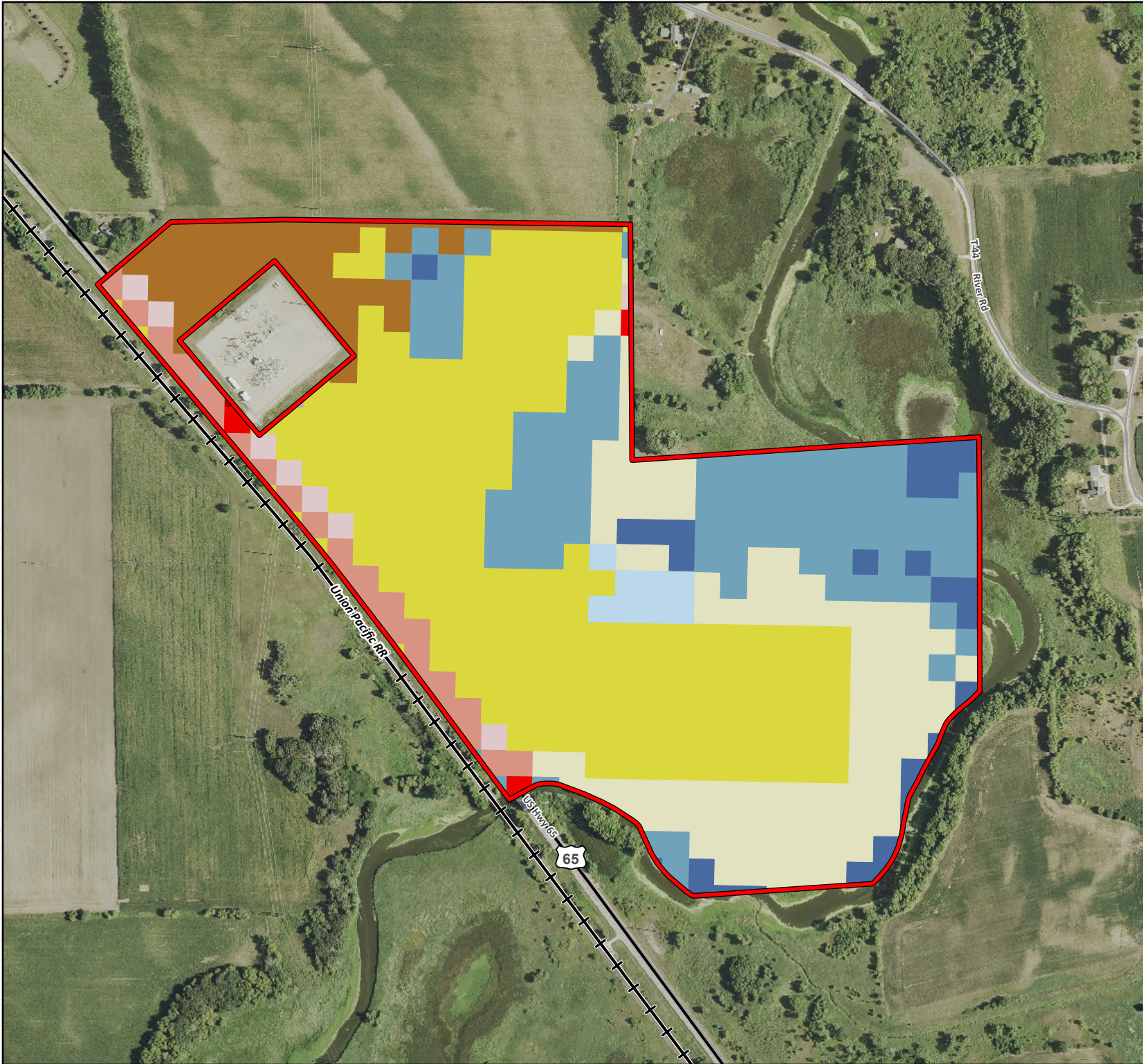
#### NLCD Classification (Acreage & Percent of Project Area)

-  Open Water: 4.89 Acres, 4.68%
-  Developed, Open Space: 1.64 Acres, 1.57%
-  Developed, Low Intensity: 4.6 Acres, 4.4%
-  Developed, Medium Intensity: 0.41 Acres, 0.39%
-  Developed, High Intensity: 0.02 Acres, 0.02%
-  Barren Land: 0.06 Acres, 0.06%
-  Herbaceous: 20.04 Acres, 19.19%
-  Hay/Pasture: 43.1 Acres, 41.28%
-  Cultivated Crops: 7.63 Acres, 7.31%
-  Woody Wetlands: 1.78 Acres, 1.7%
-  Emergent Herbaceous Wetlands: 20.23 Acres, 19.38%

Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021 & 2023); NLCD (2021).

























Map Document: N:\0046089\_001\_GIS\_ArcPro\0046089\_040\_SPAE\hbitis\_20240610\0046089\_040\_SPAE\hbitis\_20240610.aprx 8/26/2024 1:16 PM MMQuade



**Midwater Energy Storage Project**  
Shell Rock Township,  
Freeborn County, Minnesota  
Public Land Ownership  
& Recreation  
Figure 6 (August, 2024)

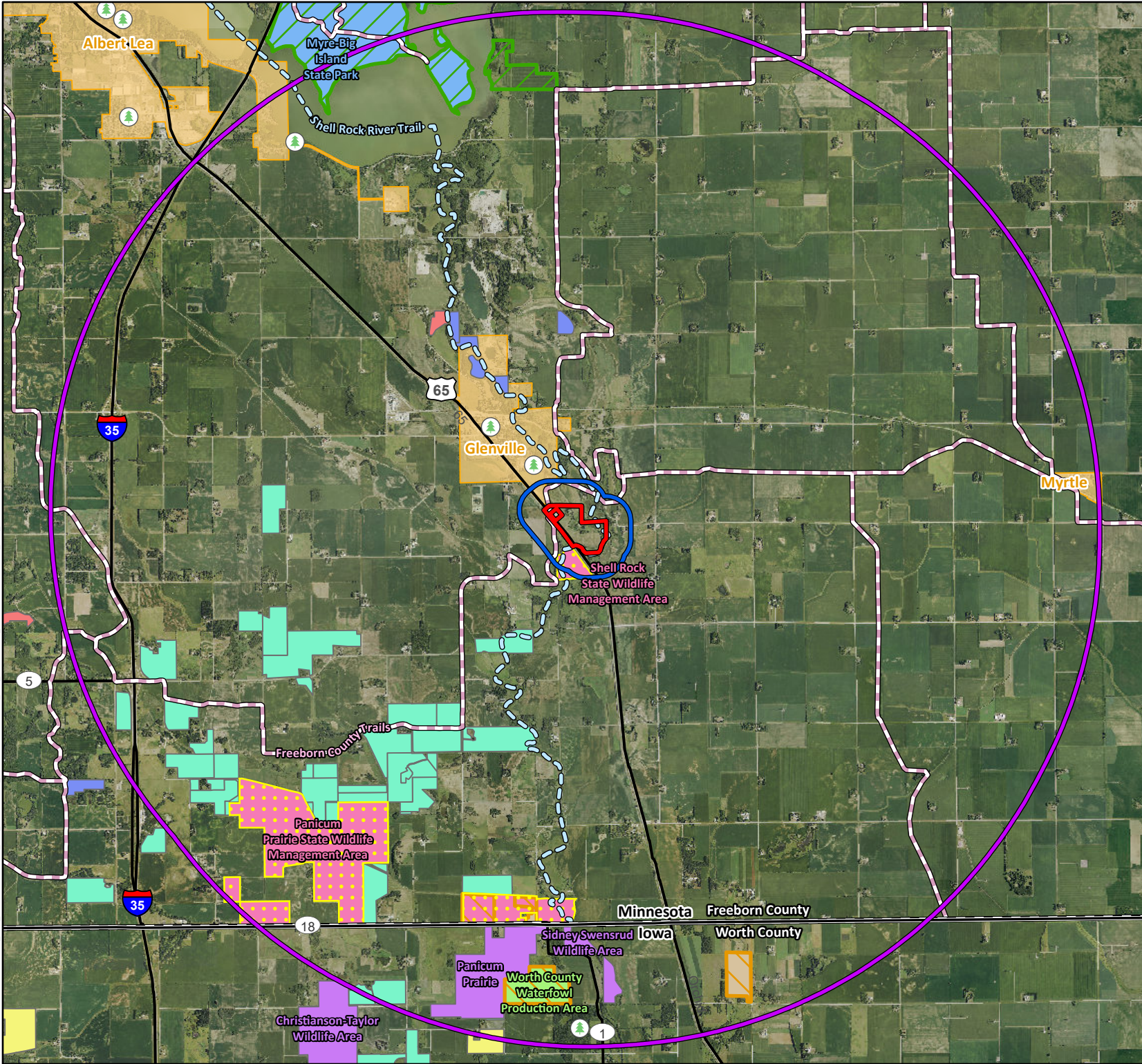
**Legend**

-  Project Area
  -  Project Area Quarter-Mile Buffer
  -  Project Area 5-Mile Buffer
  -  State Boundary
  -  County Boundary
  -  Municipal Boundary
  -  National Wildlife Refuge
  -  State Park
  -  Wildlife Management Area
  -  Snowmobile Trail
  -  Water Trail
  -  Local Park
  -  Major Road
- PADUS Designation**
-  State Park
  -  State Conservation Area
  -  Local Conservation Area
  -  Resource Management Area
- PADUS Conservation Easement Unit Type**
-  Agricultural Conservation Easement Program - Wetland Reserve Easements
  -  Conservation Reserve Enhancement Program
  -  Wetlands Reserve Program
  -  Permanent Wetland Preserve
  -  Waterfowl Production Area

Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021); MNDNR (2022 & 2024); PADUS (2024); USFWS (2023); MNDOT (2024).



Map Document: N:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAE\hblbits\_20240610\0046089\_040\_SPAE\hblbits\_20240610.aprx 8/27/2024 11:25 AM M:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAE\hblbits\_20240610\0046089\_040\_SPAE\hblbits\_20240610.aprx 8/27/2024 11:25 AM M:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAE\hblbits\_20240610\0046089\_040\_SPAE\hblbits\_20240610.aprx 8/27/2024 11:25 AM



**Midwater Energy Storage Project**  
 Shell Rock Township,  
 Freeborn County, Minnesota  
 Soils - Hydric Classification  
 Figure 7 (September, 2024)

**Legend**

- Project Area
- Soil Unit Boundary
- Major Road
- Road
- + Railroad
- Hydric Classification**
- All Hydric
- Predominantly Hydric
- Proposed Site Features**
- Proposed BESS Facility & Project Development Area
- Proposed HVTL Facility & Project Development Area
- Proposed Fence Line
- Proposed Tap Line
- Proposed Access Road

Map Document: N:\0046089\_001\_GIS\_ArcPro\0046089\_040\_SPAE\hills\_20240610\0046089\_040\_SPAE\hills\_20240610.aprx 9/24/2024 8:25 AM MMQuad



Map Unit Symbol	Map Unit Name	Hydric Classification	Percent Hydric Classification
1030	Pits, sand and gravel	Non-Hydric	0
W	Water	Non-Hydric	0
41B	Estherville sandy loam, 2 to 6 percent slopes	Predominantly Non-Hydric	1
27	Dickinson fine sandy loam, 0 to 2 percent slopes	Predominantly Non-Hydric	3
156	Fairhaven loam, 0 to 2 percent slopes	Predominantly Non-Hydric	4
41C	Estherville sandy loam, 6 to 12 percent slopes	Predominantly Non-Hydric	4
5B	Dakota loam, 2 to 6 percent slopes	Predominantly Non-Hydric	4
5C	Dakota loam, 6 to 14 percent slopes	Predominantly Non-Hydric	4
41	Estherville sandy loam, 0 to 2 percent slopes	Predominantly Non-Hydric	6
5	Dakota loam, 0 to 2 percent slopes	Predominantly Non-Hydric	6
465	Kalmarville loam, frequently flooded	Predominantly Hydric	99
1055	Aquents and Histosols, ponded	All Hydric	100
392	Biscay clay loam, 0 to 2 percent slopes	All Hydric	100
517	Shandep loam	All Hydric	100
525	Muskego soils, 0 to 1 percent slopes	All Hydric	100

Data Source(s): Westwood (2024); NAIP (2023); NRCS (Accessed 2024); U.S. Census Bureau (2021 & 2023).















**Midwater Energy Storage Project**  
Shell Rock Township,  
Freeborn County, Minnesota

Surface Waters

Figure 8 (September, 2024)

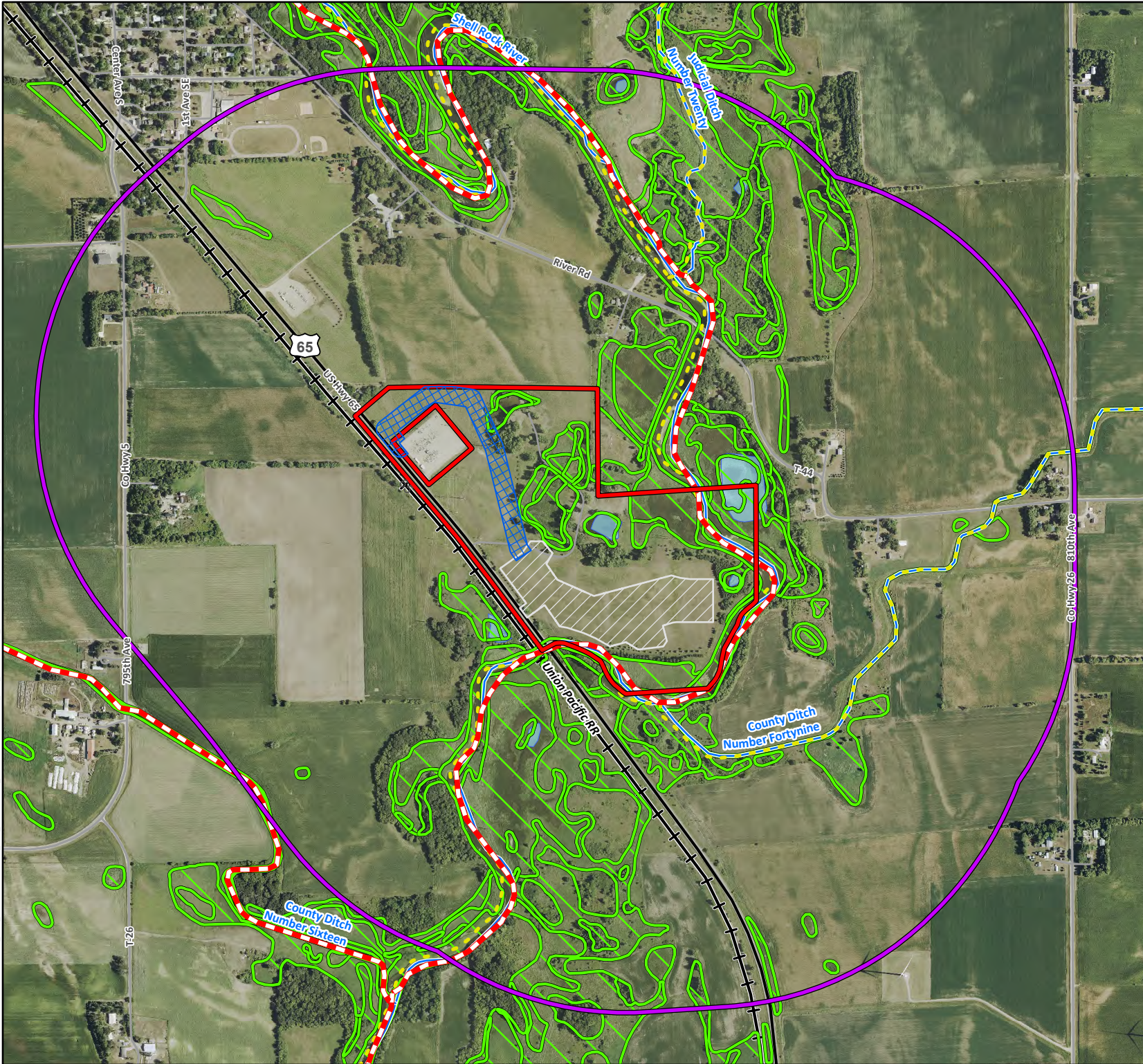
**Legend**

-  Project Area
-  Project Area Half-Mile Buffer
-  NWI Wetland
-  NHD Waterbody
-  NHD Flowline
-  PWI Watercourse
-  Impaired Waterway
-  Major Road
-  Road
-  Railroad
- Proposed Site Features**
-  Proposed BESS Facility & Project Development Area
-  Proposed HVTL Facility & Project Development Area

Data Source(s): Westwood (2024); NAIP (2023); NWI (2023); NHD (2024); PWI (2024); EPA (Accessed 2024); U.S. Census Bureau (2021 & 2023).



Map Document: N:\0046089\001\_GIS\_ArcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx 9/24/2024 8:31 AM MMQuad













**Midwater Energy Storage Project**  
Shell Rock Township,  
Freeborn County, Minnesota

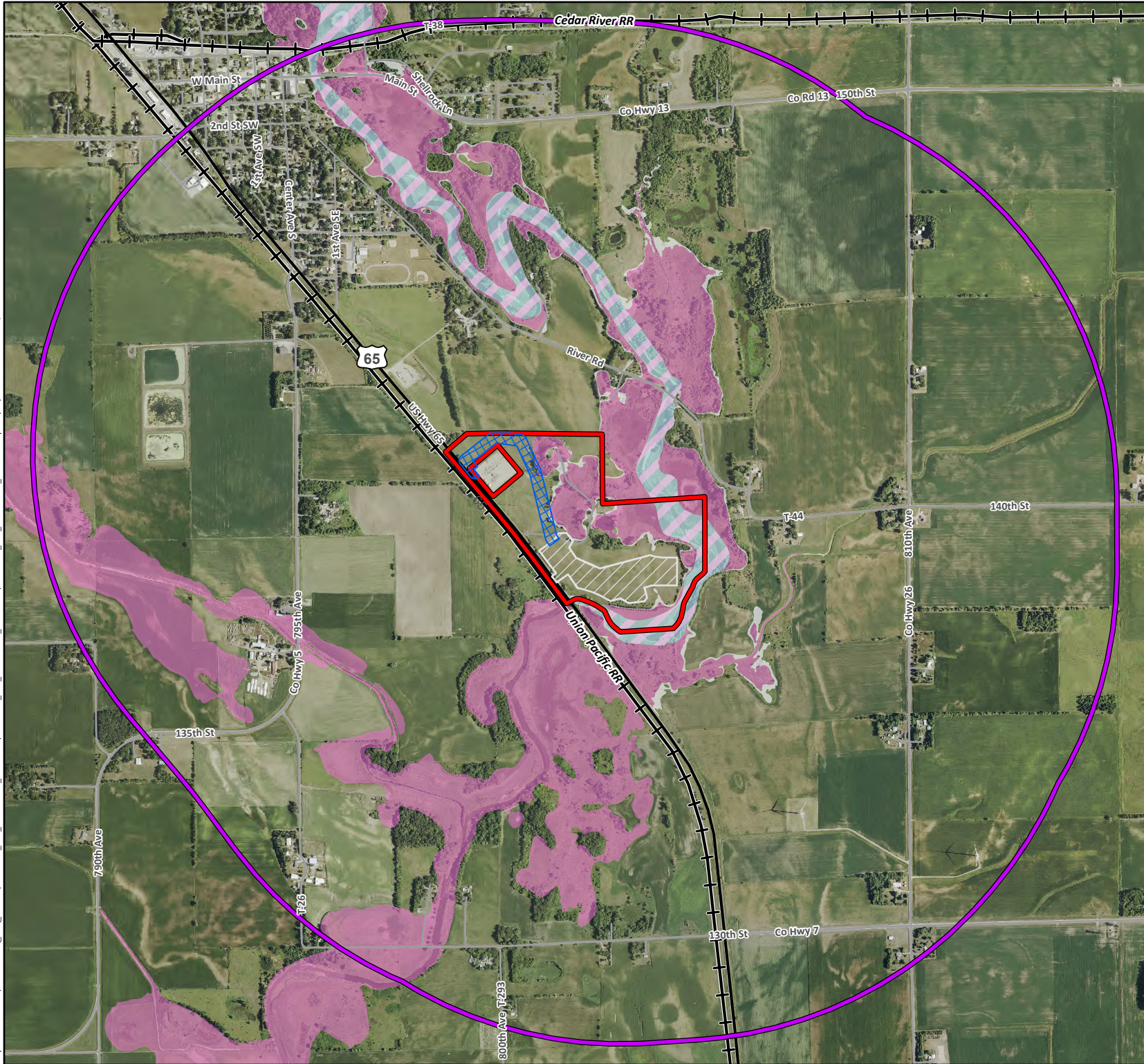
**Floodplains**

Figure 9 (September, 2024)

**Legend**

-  Project Area
-  Project Area 1-Mile Buffer
-  Major Road
-  Road
-  Railroad
- FEMA Flood Zone**
-  100-Year Floodplain
-  500-Year Floodplain
-  Floodway
- Proposed Site Features**
-  Proposed BESS Facility & Project Development Area
-  Proposed HVTL Facility & Project Development Area

Map Document: N:\0046089\_001\_GIS\_ArcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx 9/24/2024 8:35 AM MMQuadre



Data Source(s): Westwood (2024); NAIP (2023); FEMA (2024); U.S. Census Bureau (2021 & 2023).















### Midwater Energy Storage Project

Shell Rock Township,  
Freeborn County, Minnesota

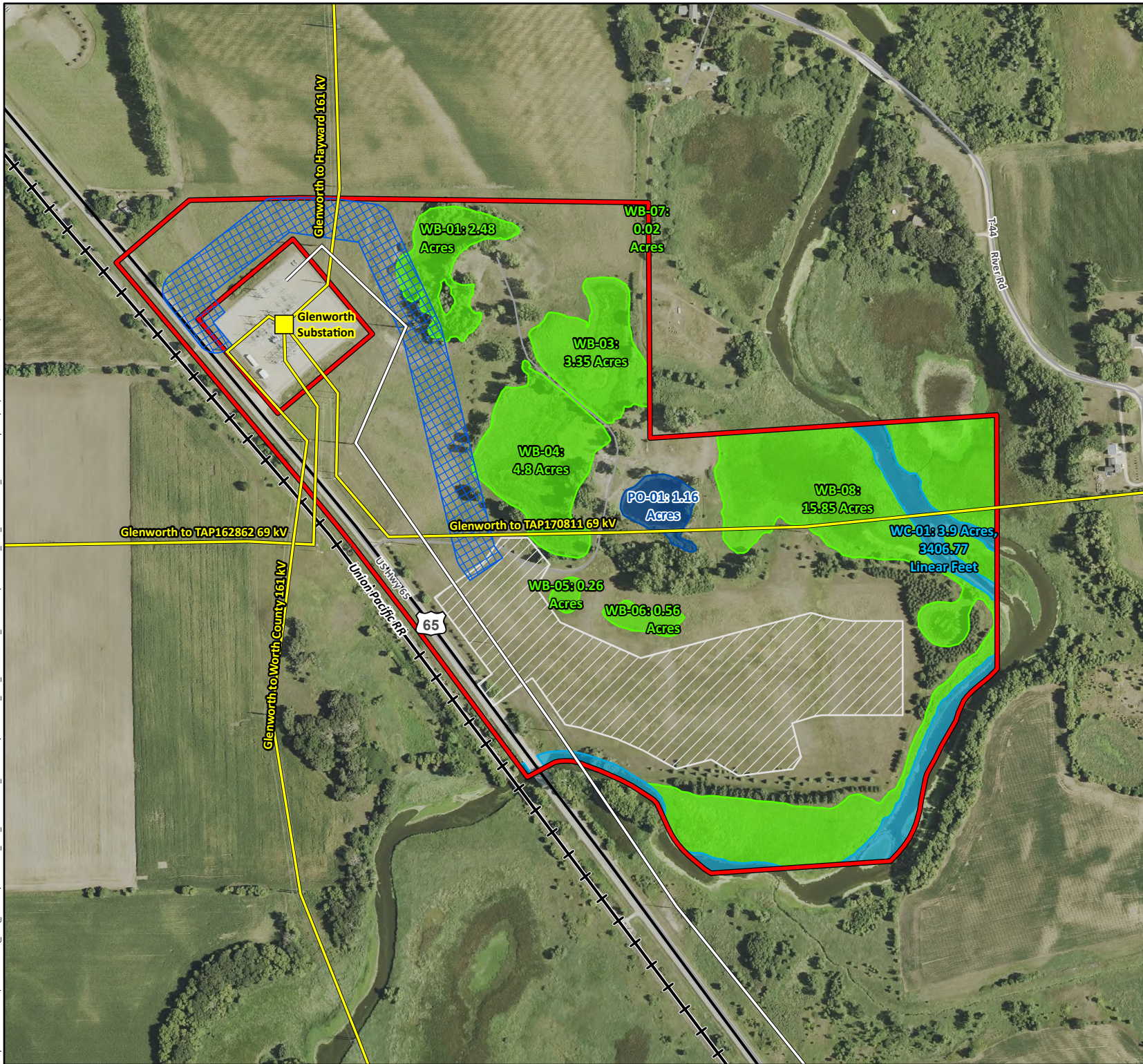
### Wetlands Map

Figure 10 (September, 2024)

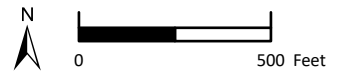
#### Legend

-  Project Area
-  Field Delineated Wetland
-  Field Delineated Pond
-  Field Delineated Watercourse
-  Existing Transmission Line
-  Existing Distribution Line
-  Existing Substation
-  Major Road
-  Road
-  Railroad
- Proposed Site Features**
-  Proposed BESS Facility & Project Development Area
-  Proposed HVTL Facility & Project Development Area

Map Document: N:\0046089\_001\_GIS\_ArcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx 9/24/2024 8:40 AM MMQuadre



Data Source(s): Westwood (2024); NAIP (2023); U.S. Census Bureau (2021 & 2023); HIFLD (2022 & 2024).























### Midwater Energy Storage Project

Shell Rock Township,  
Freeborn County, Minnesota

### Unique Natural Features

Figure 11 (September, 2024)

#### Legend

-  Project Area
-  MNDNR MBS Sites of Biodiversity Significance
-  MNDNR Regionally Significant Ecological Area (RSEA)
-  Conservation Reserve Program (CRP) Land
-  RIM Easement
-  Major Road
-  Road
-  Railroad
- Proposed Site Features**
-  Proposed BESS Facility & Project Development Area
-  Proposed Substation
-  Proposed O&M Facility
-  Proposed Auxiliary Transformer
-  Proposed BESS Unit
-  Proposed Laydown Yard
-  Proposed Basin Area
-  Proposed HVTL Facility & Project Development Area
-  Proposed Fence Line
-  Proposed Tap Line
-  Proposed Access Road
-  Proposed Leach Field

Data Source(s): Westwood (2024); NAIP (2023); MNDNR (2006 & 2024); MNBWSR (2024); CRP (2007).



Map Document: N:\0046089\001\_GIS\_AcPro\0046089\_040\_SPAExhibits\_20240610\0046089\_040\_SPAExhibits\_20240610.aprx 9/24/2024 8:49 AM MMQuadre

