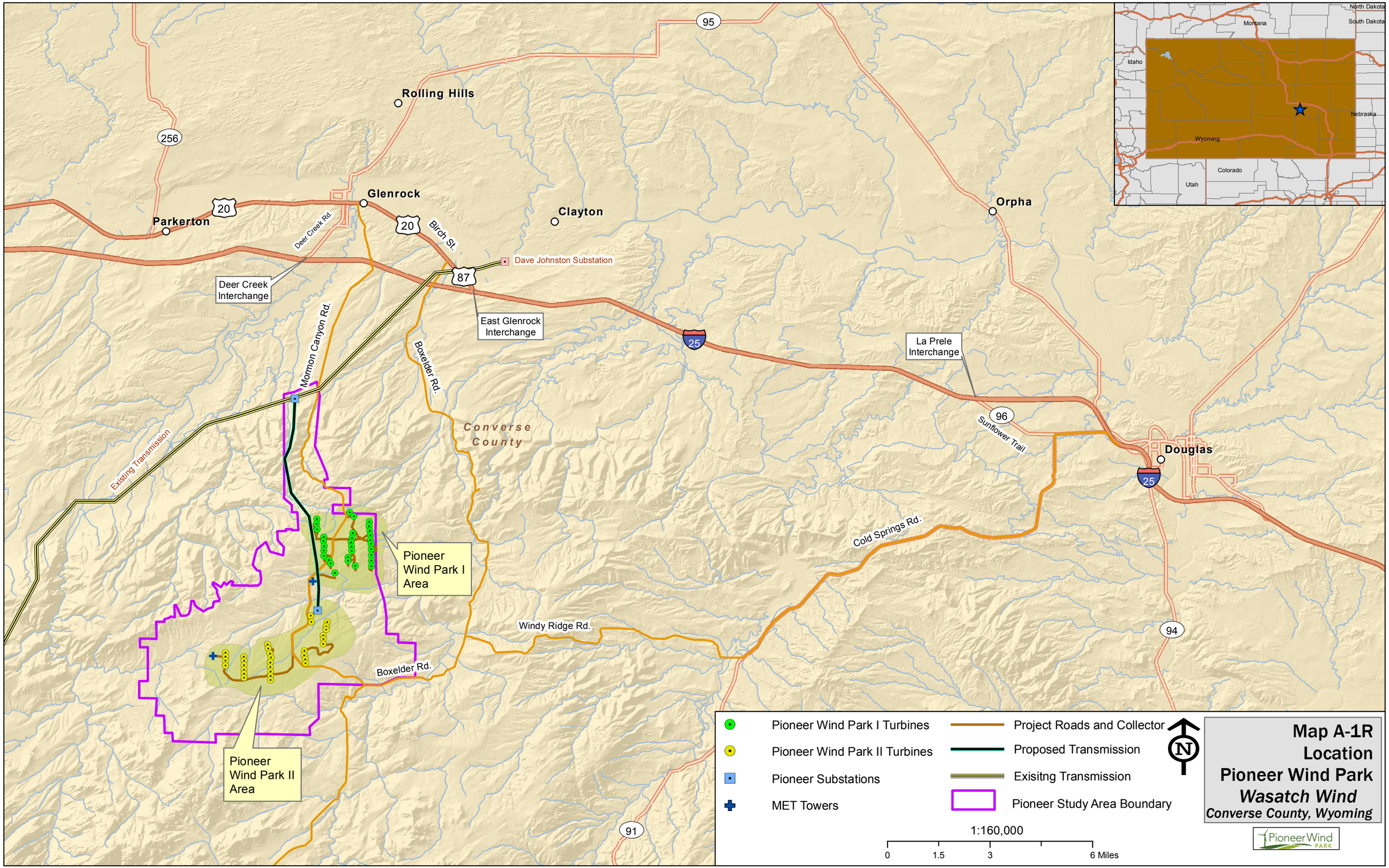
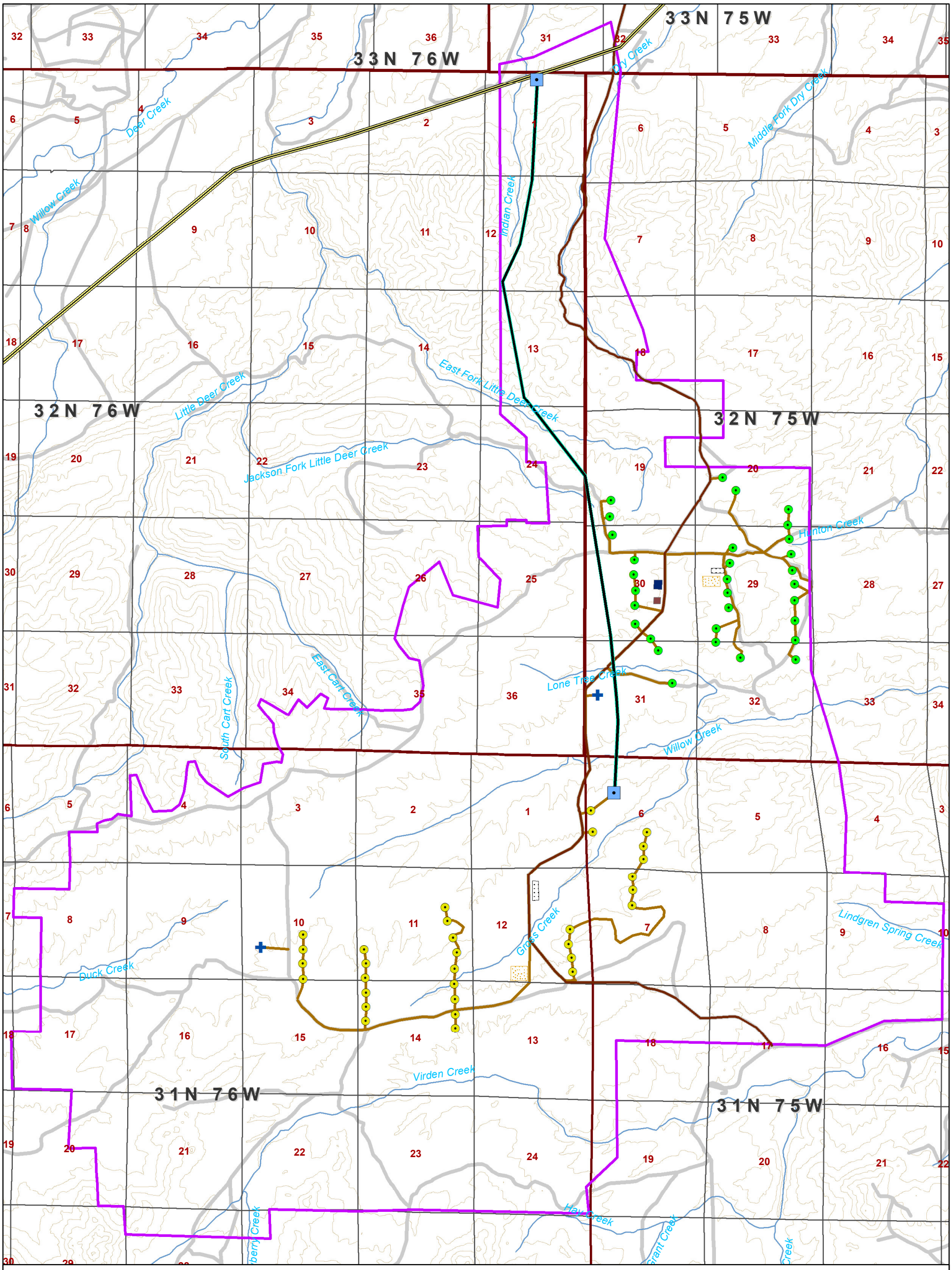

Rolling Hills
Glenrock
Clayton
Orpha
Parkerton
Douglas
Dave Johnston Substation
Deer Creek Interchange
East Glenrock Interchange
La Prele Interchange
Deer Creek Rd.
Birch St.
Mormon Canyon Rd.
Boxelder Rd.
Sunflower Trail
Cold Springs Rd.
Windy Ridge Rd.
Existing Transmission
Converse County
Pioneer Wind Park I Area
Pioneer Wind Park II Area
95
256
20
87
25
96
94
91
North Dakota
South Dakota
Montana
Idaho
Nebraska
Wyoming
Colorado
Utah
Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Pioneer Study Area Boundary
N
1:160,000
0
1.5
3
6 Miles
Map A-1R
Location
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming
Pioneer Wind PARK



Site Data

- Pioneer Wind Park I Turbines
- Pioneer Wind Park II Turbines
- Pioneer Substations
- MET Towers
- Project Roads and Collector System
- Proposed Transmission
- Exisitng Transmission
- Laydown Areas
- Parking Areas
- O&M Building
- Batch Plant
- Pioneer Study Area Boundary

N

1:52,000

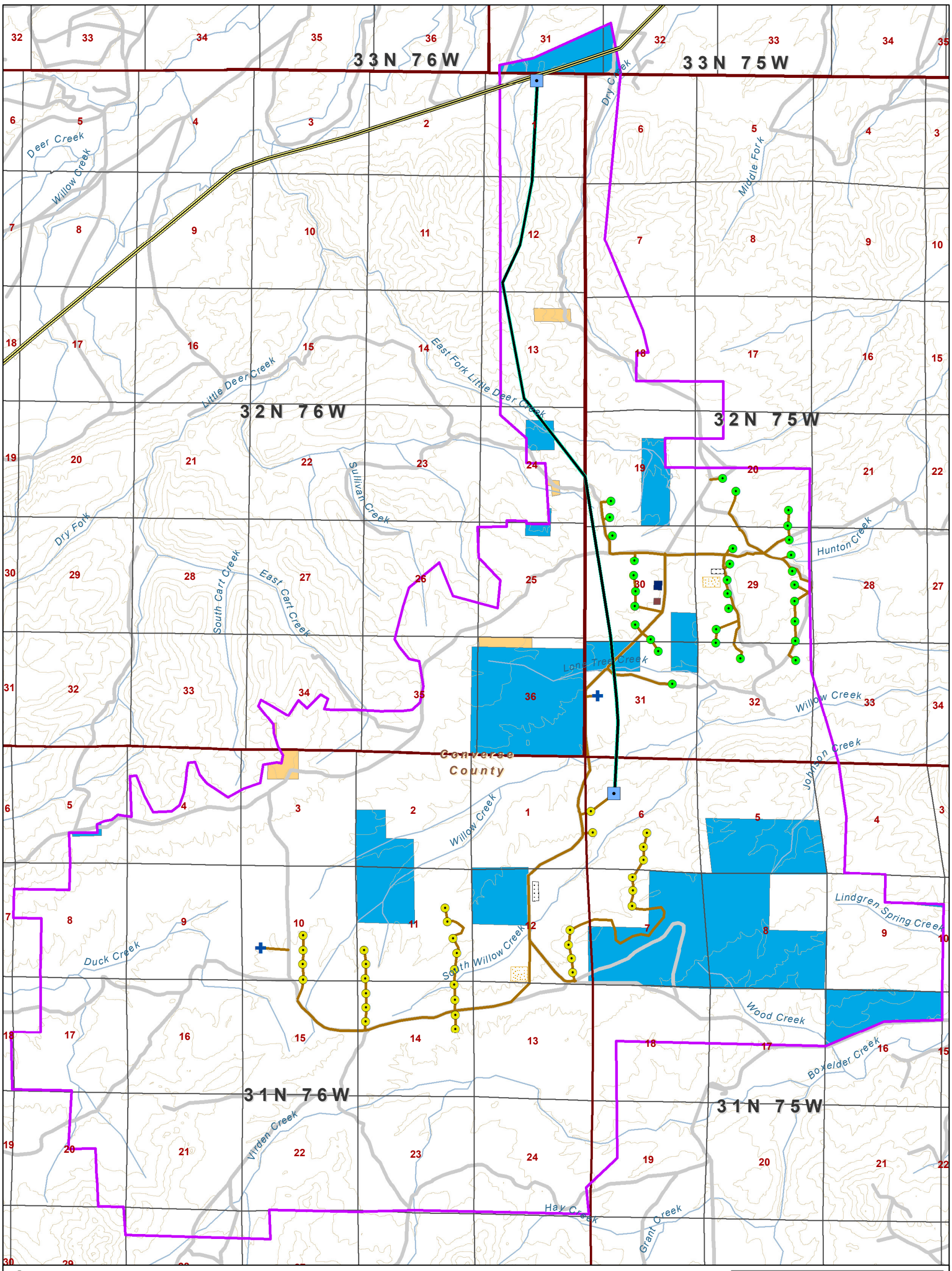
0 0.5 1 2 Miles

Map A-2R
Preliminary Site Plan
Pioneer Wind Park

Wasatch Wind

Converse County, Wyoming

PioneerWind PARK



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Landownership

BLM
State of Wyoming
Private

N

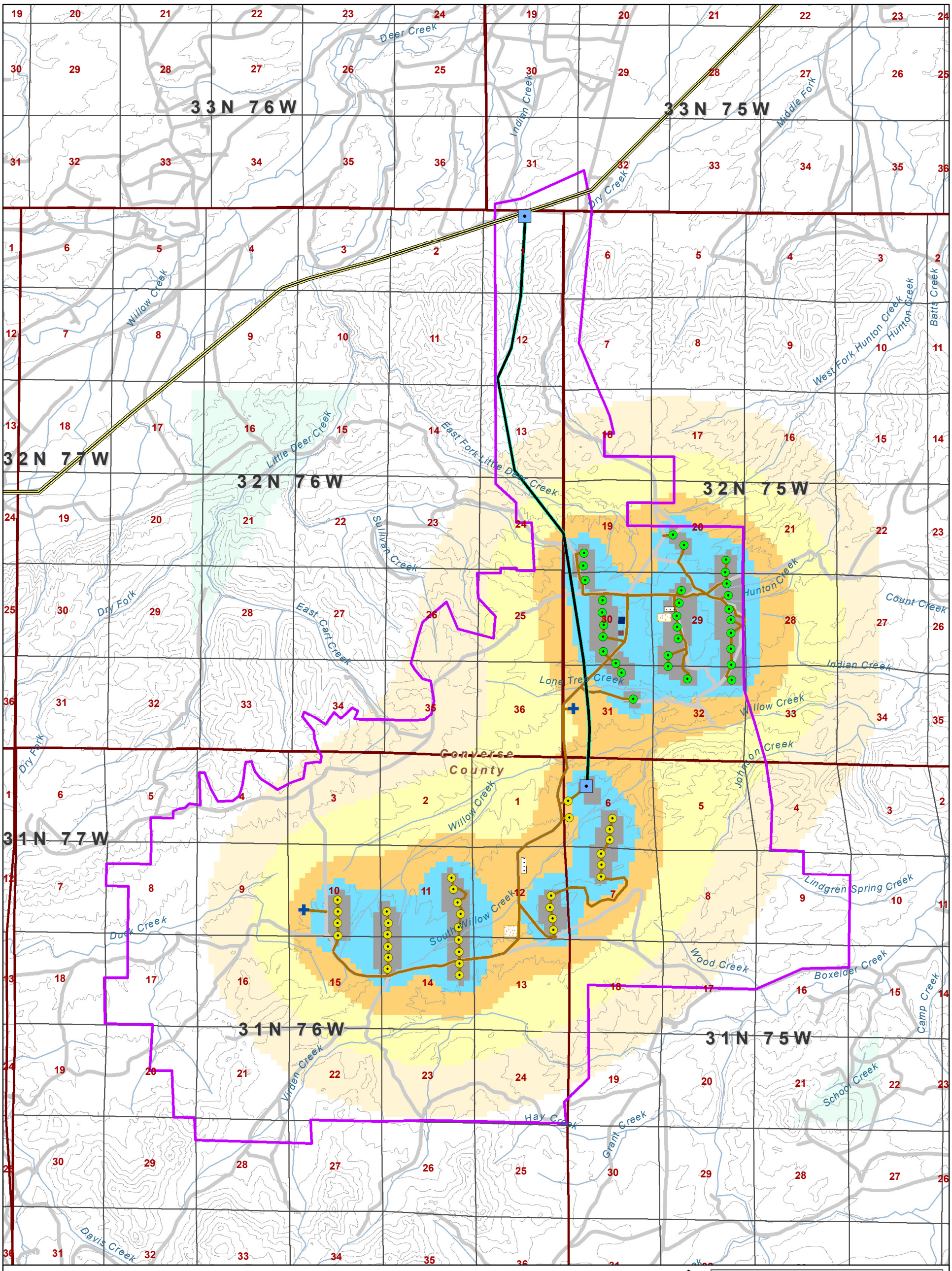
Map A-3R
Landownership
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

1:52,000

0 0.5 1 2 Miles

Source: USGS Seamless Server 2010



- Pioneer Wind Park I Turbines
- Pioneer Wind Park II Turbines
- Pioneer Substations
- MET Towers
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- Proposed Transmission
- Exisitng Transmission
- Laydown Areas
- Parking Areas
- O&M Building
- Batch Plant
- Pioneer Study Area Boundary

Estimated Noise (dBA)

- 24 - 35
- 35 - 39
- 39 - 44
- 44 - 49
- 49 - 54
- 54- 61

1:65,000

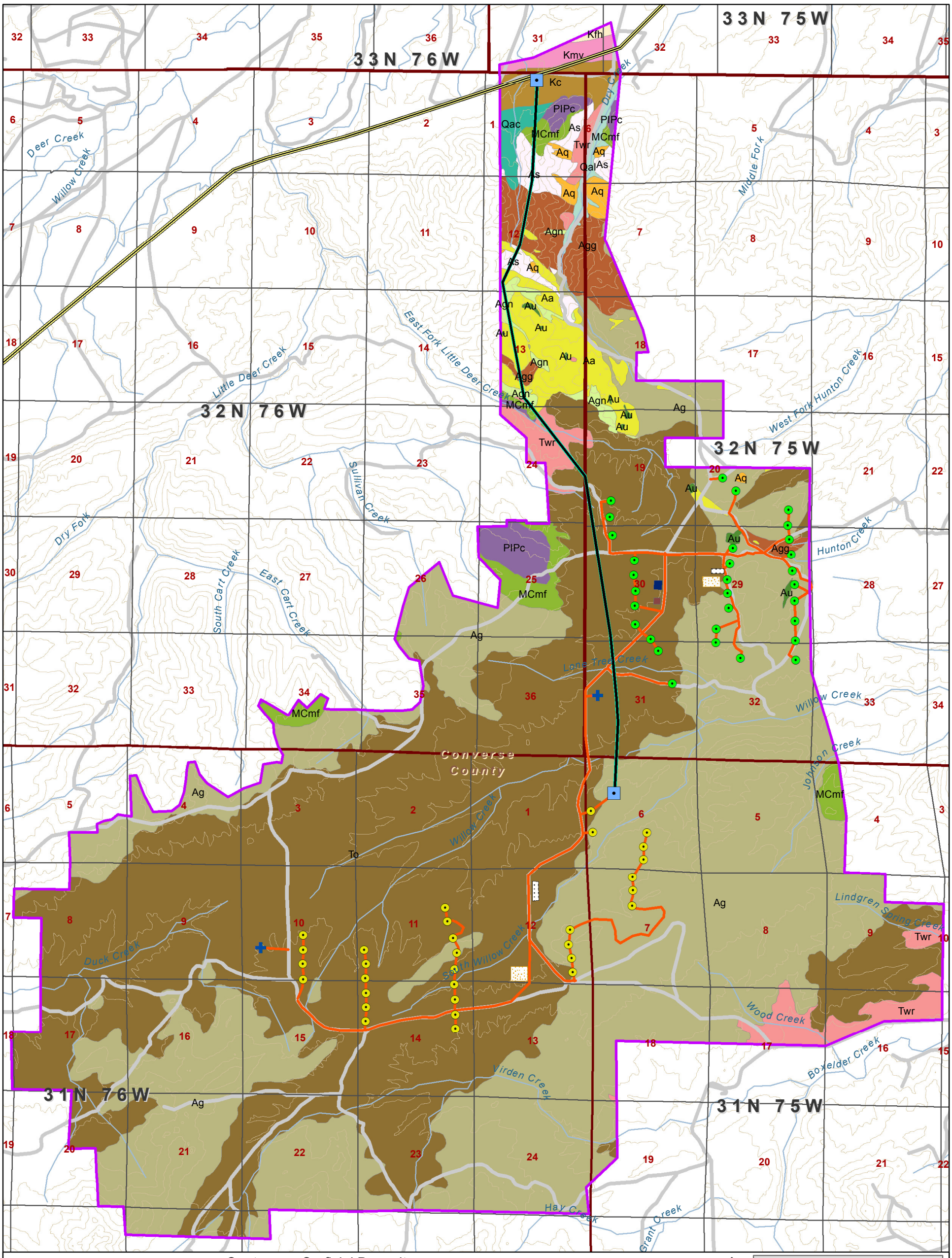
0 0.5 1 2 Miles

N

Map F-1R
Predicted Noise Levels
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: EAPC 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Quaternary Surficial Deposits
- Qal – Alluvial deposits
- Qac – Mixed alluvium and colluvium

Tertiary Sedimentary Rocks
- To –Ogallala Formation
- Twr – White River Formation

Upper Cretaceous Sedimentary Rocks
- Kfh – Fox Hills Sandstone
- Kmv – Mesaverde Formation
- Kc – Cody Shale

Lower Permian and Upper/Middle Pennsylvanian
- PIPc – Casper Formation

Permian, Pennsylvanian, Mississipian, and Cambrian Sedimentary Rocks
- MCmf – Madison Limestone and Cambrian Rocks

Precambrian (Archean) Crystalline Rocks
- Aa – Amphibolite
- Ag – Granite
- Agn – Granite Gneiss
- Au – Ultramafic rocks and serpentinite
- Agg – Garnet Gneiss
- Aq – Quartzite and Garnet Quartzite
- As – Hornblende schist and Quartz/Mica Schist

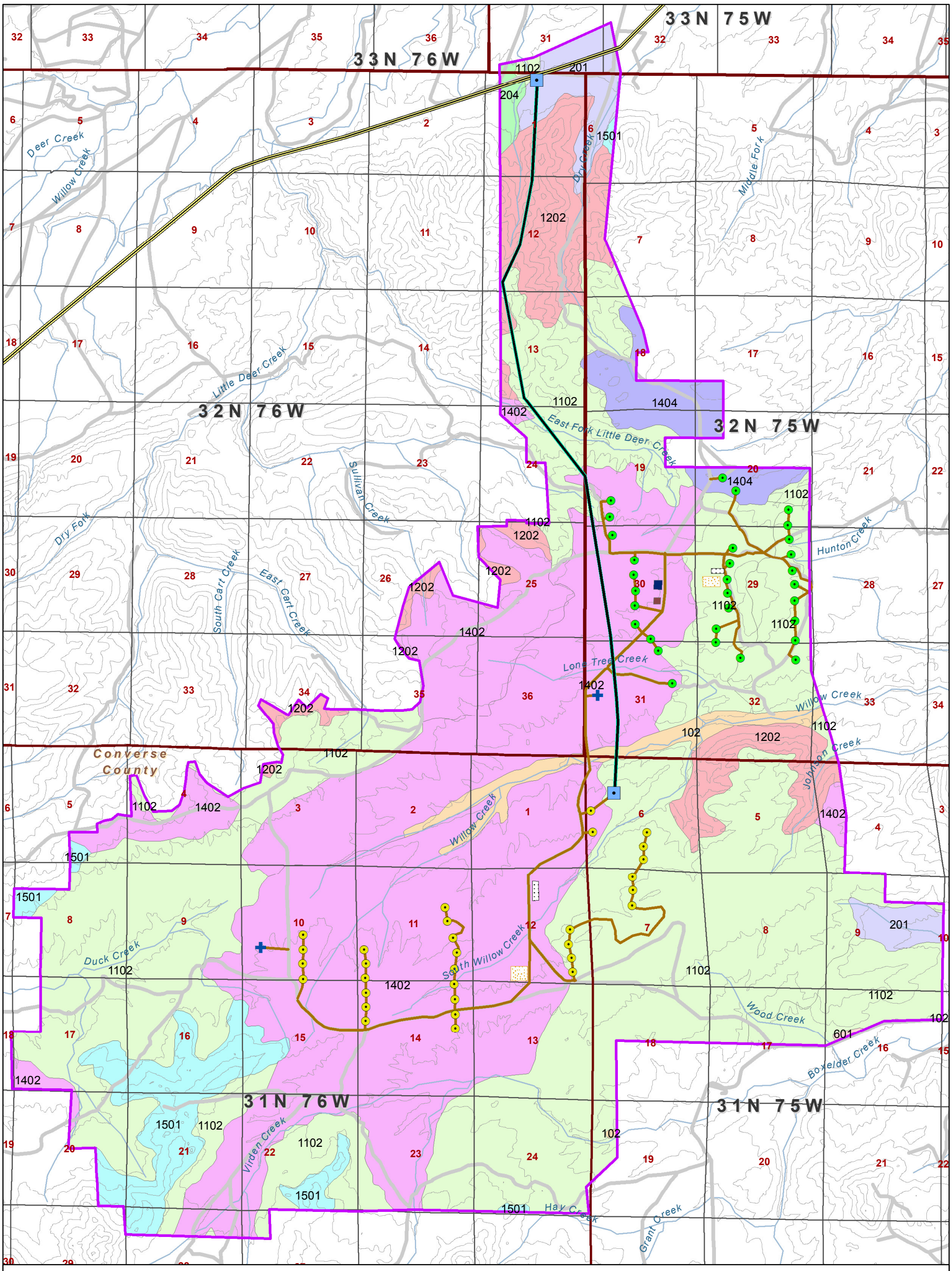
1:52,000
0 0.5 1 2 Miles

N

Map F-2R
Bedrock Geology
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: WSGS 2007



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Geology Type

- Alluvial Fan 201
- Alluvial Fan 204
- Alluvium 102
- Bedrock 1501
- Colluvium 1202
- Slopewash 1102
- Terrace 601
- Residuum 1402
- Residuum 1404

1:52,000

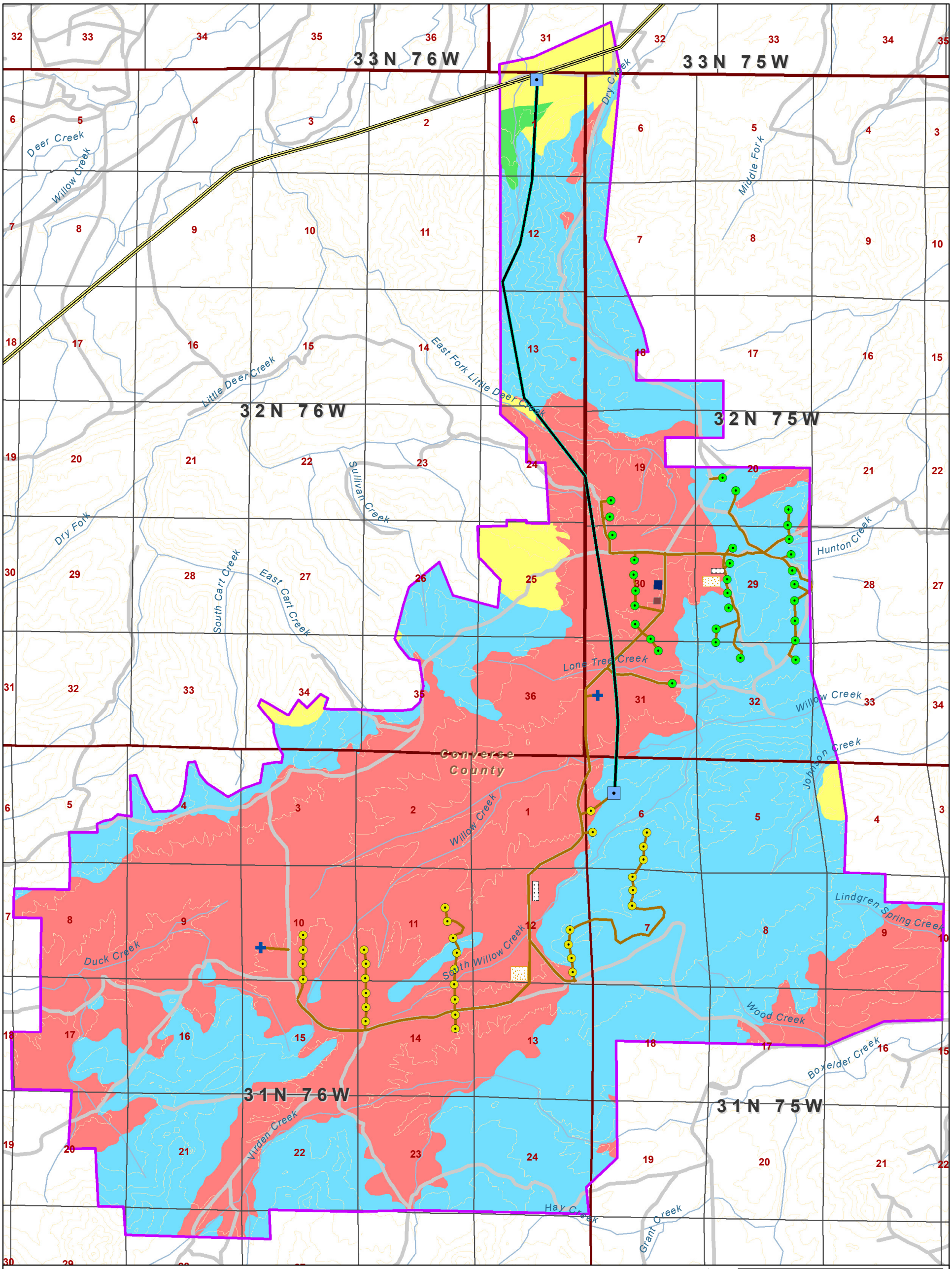
0 0.5 1 2 Miles

N

Map F-3R
Surficial Geology
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: USGS 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Potential Fossil Yield Classification

Class 1
Class 2
Class 3
Class 5

N

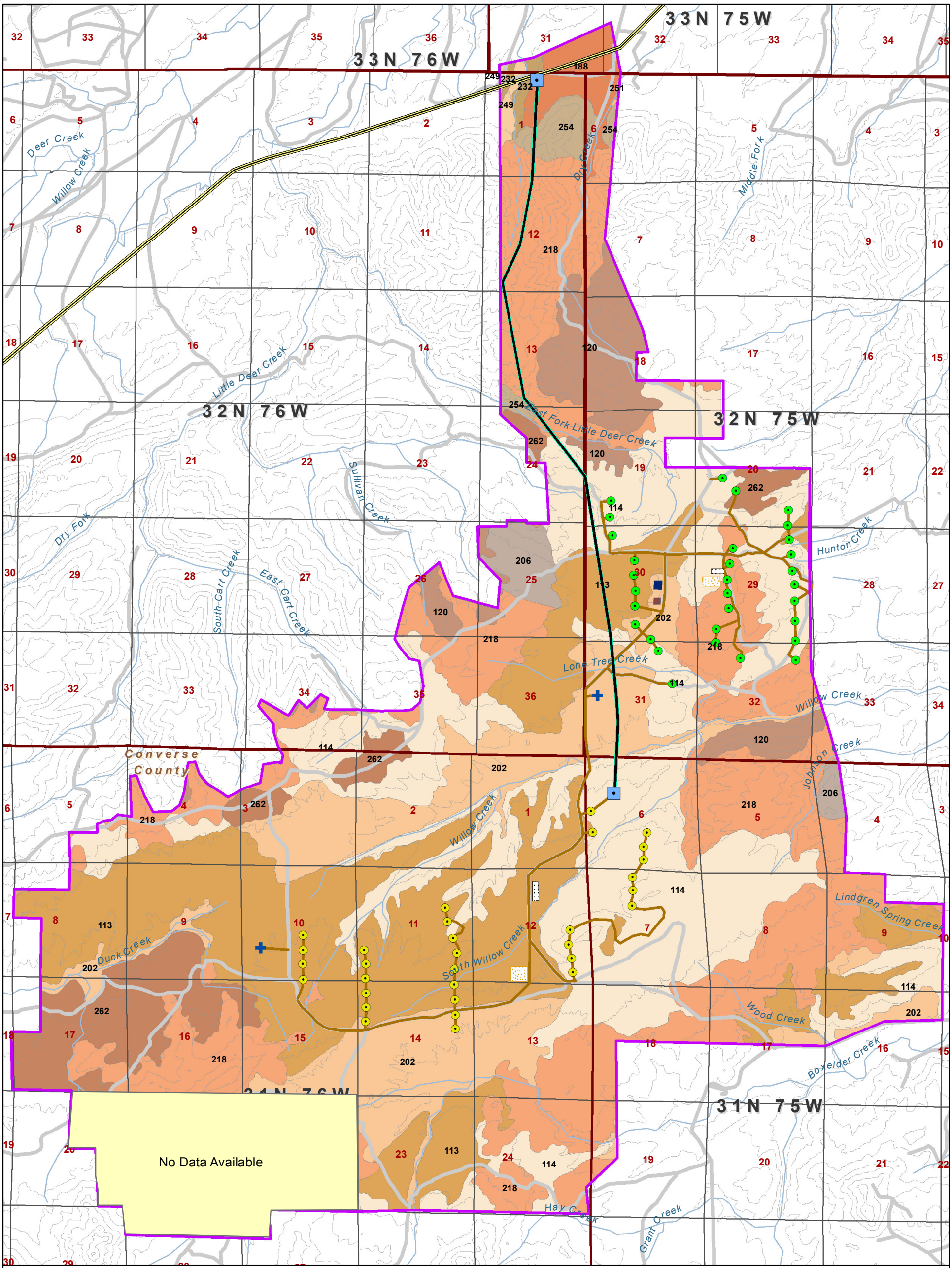
Map F-4R
Paleontology
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

1:52,000

0 0.5 1 2 Miles

Source: WSGS 2007 & SWCA 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Soil Type

113, Boyle-Lininger loams
114, Boyle-Rock outcrop complex
120, Cathedral-Rock outcrop complex, wooded
188, Kishona-Cambria silt loams
202, Nunnston loam
206, Pilotpeak-Canwall complex
218, Rock outcrop-Cathedral complex,
232, Shingle-Taluce complex
249, Theedle-Kishona loams
254, Tyzak-Rock outcrop complex
251, Theedle-Kishona-Shingle loams
262, Ulrant loam

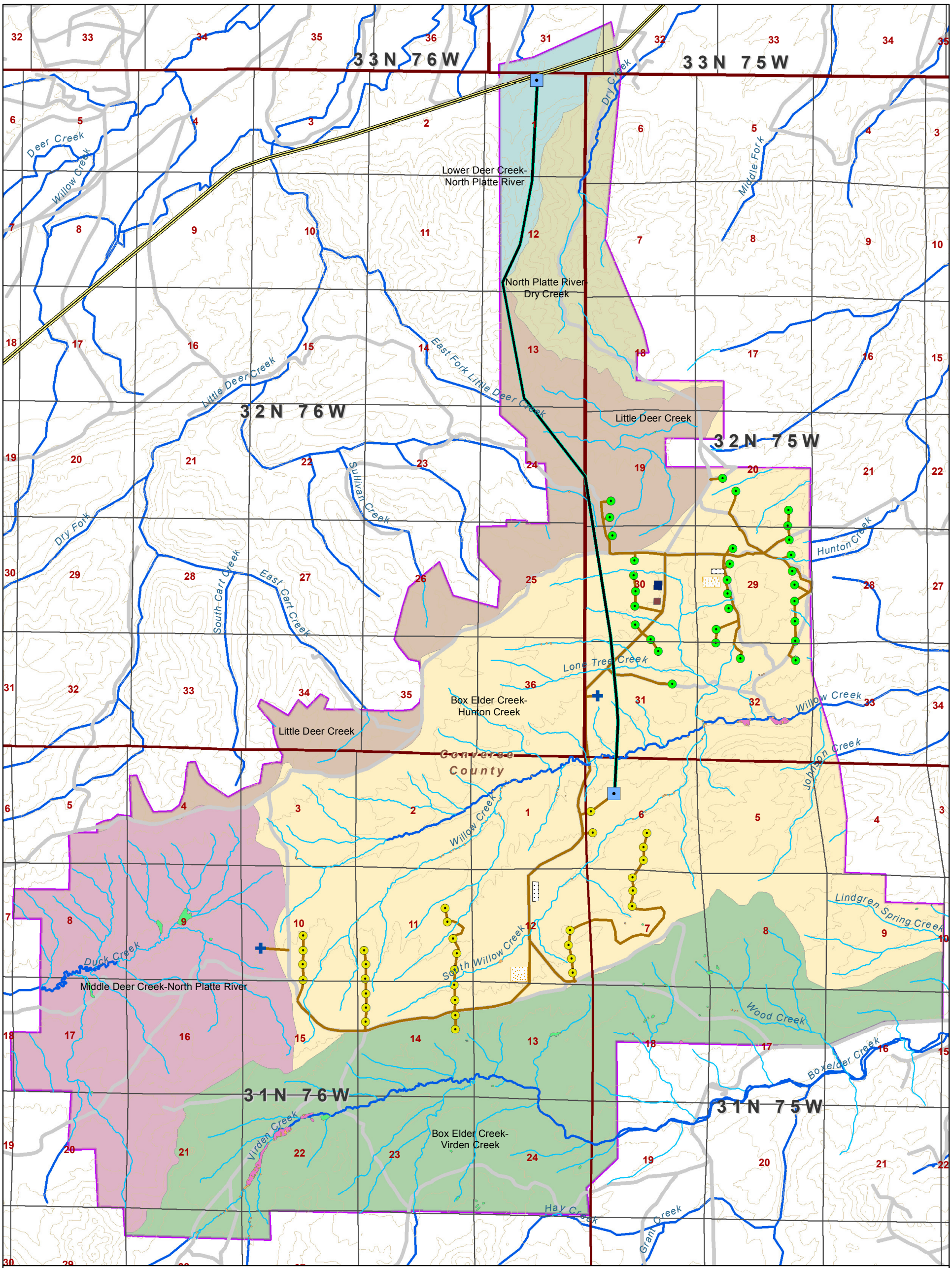
1:52,000

0 0.5 1 2 Miles

Map F-5R Soils
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: NRCS SSURGO 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Wetland Type

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Other

Streams

Perennial
Intermittent

Sub-Watershed Boundary

Box Elder Creek-Hunton Creek
Box Elder Creek-Virden Creek
Little Deer Creek
Lower Deer Creek-North Platte River
Middle Deer Creek-North Platte River
North Platte River-Dry Creek

N

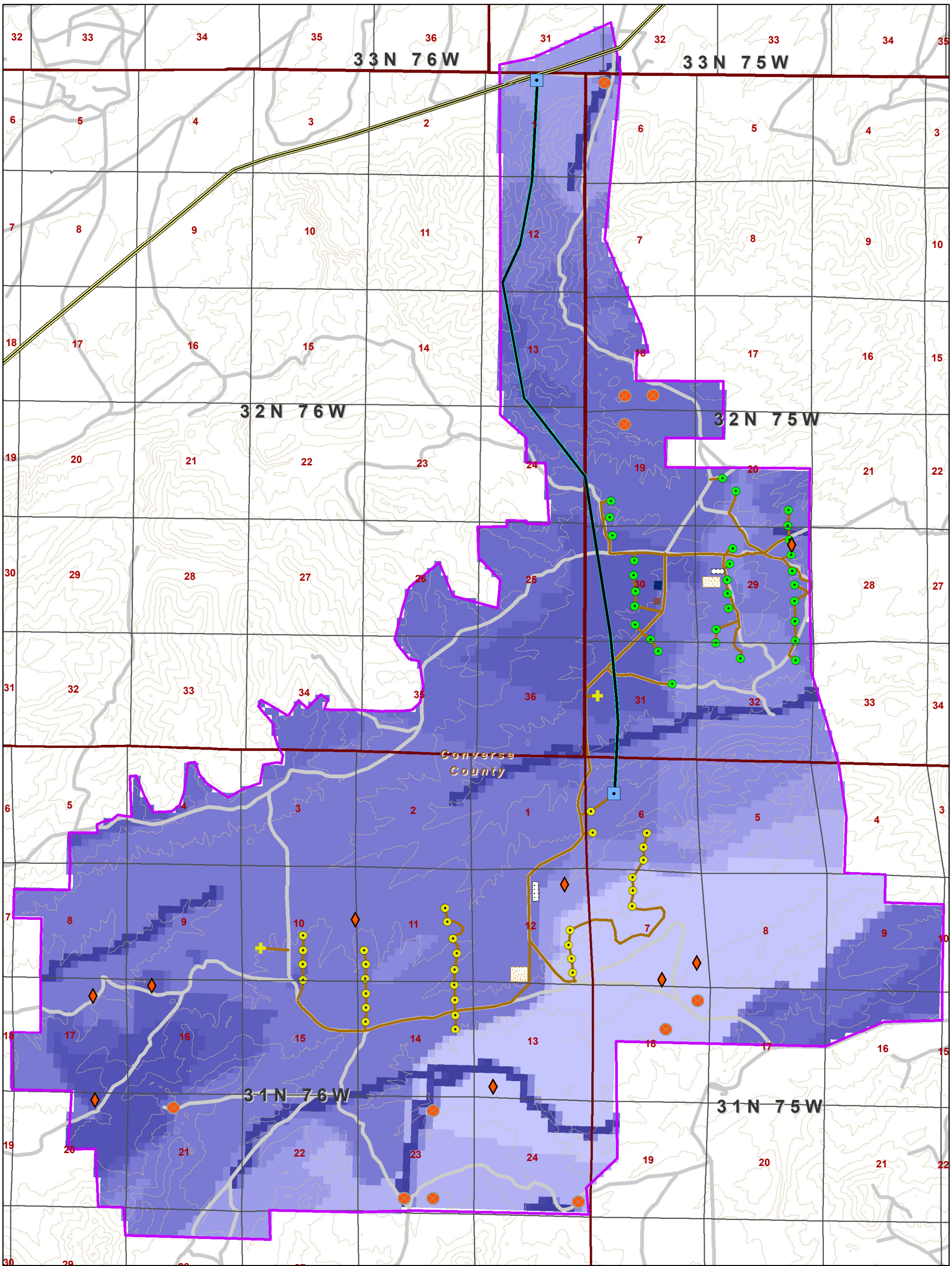
1:52,000

0 0.5 1 2 Miles

Map F-6R
Surface Water and Wetlands
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: NWI 2008 & NHD 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Depth to Intial Groundwater (ft)

0 - 10	30 - 35
10 - 15	35 - 40
15 - 20	40 - 50
20 - 25	50 - 55
25 - 30	GTE 55

Wells
Springs

1:52,000

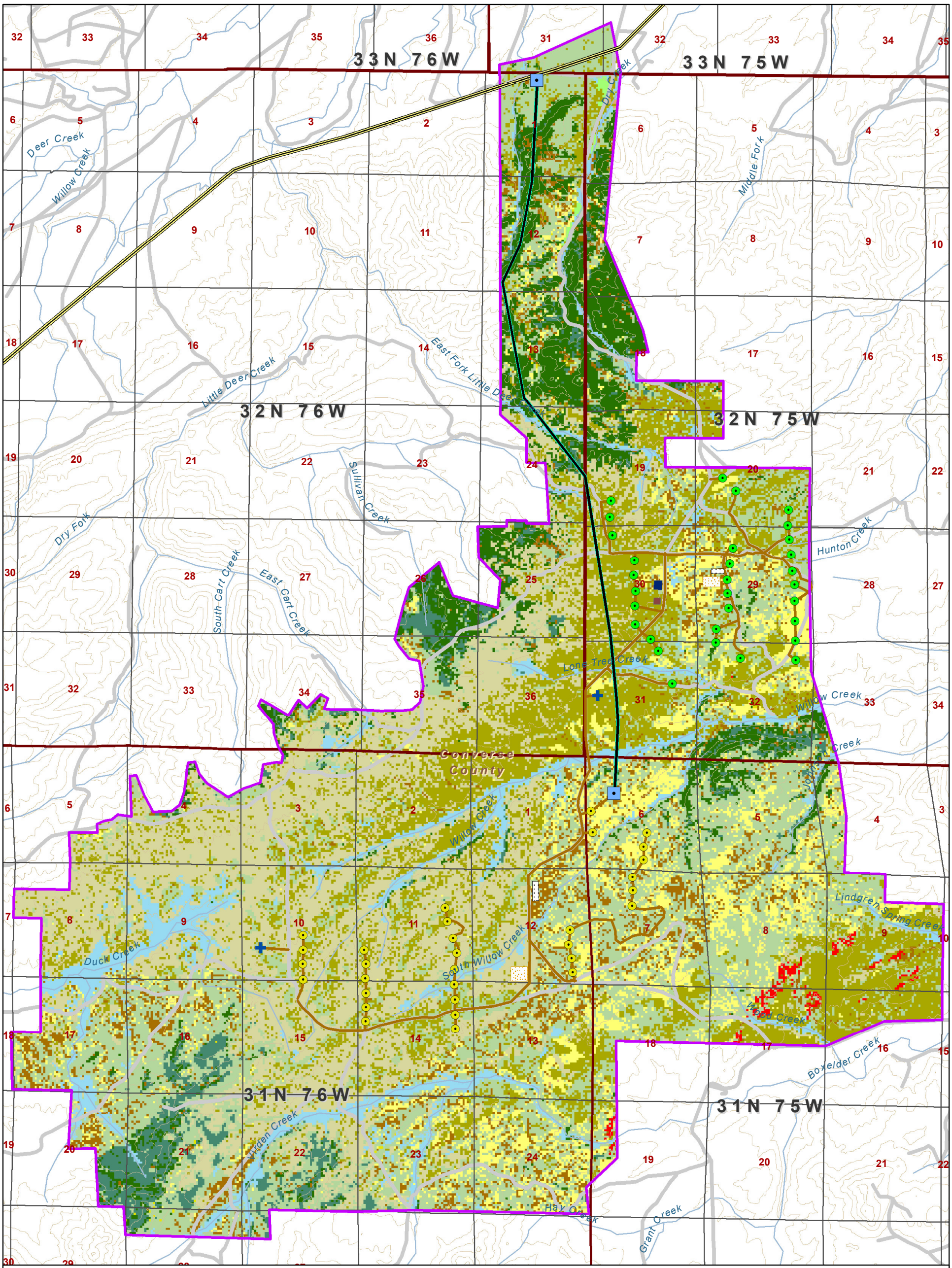
0 0.5 1 2 Miles

N

Map F-7R
Ground Water
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: WYGISC & Wyoming State Engineers Office



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Vegetation Type

Agriculture-Pasture/Hay
Aspen Woodland-Mixed Conifer Forest
Developed-Open Space
Dwarf Sagebrush Steppe
Foothill-Valley Grassland
Introduced Upland Vegetation
Mixedgrass Prairie
Montane Grassland and Mesic Meadow
Ponderosa Pine Woodland and Savanna
Riparian and Floodplain Systems
Sagebrush Steppe
Sparsely Vegetated
Mountain Mahogany Woodland and Shrubland

1:52,000

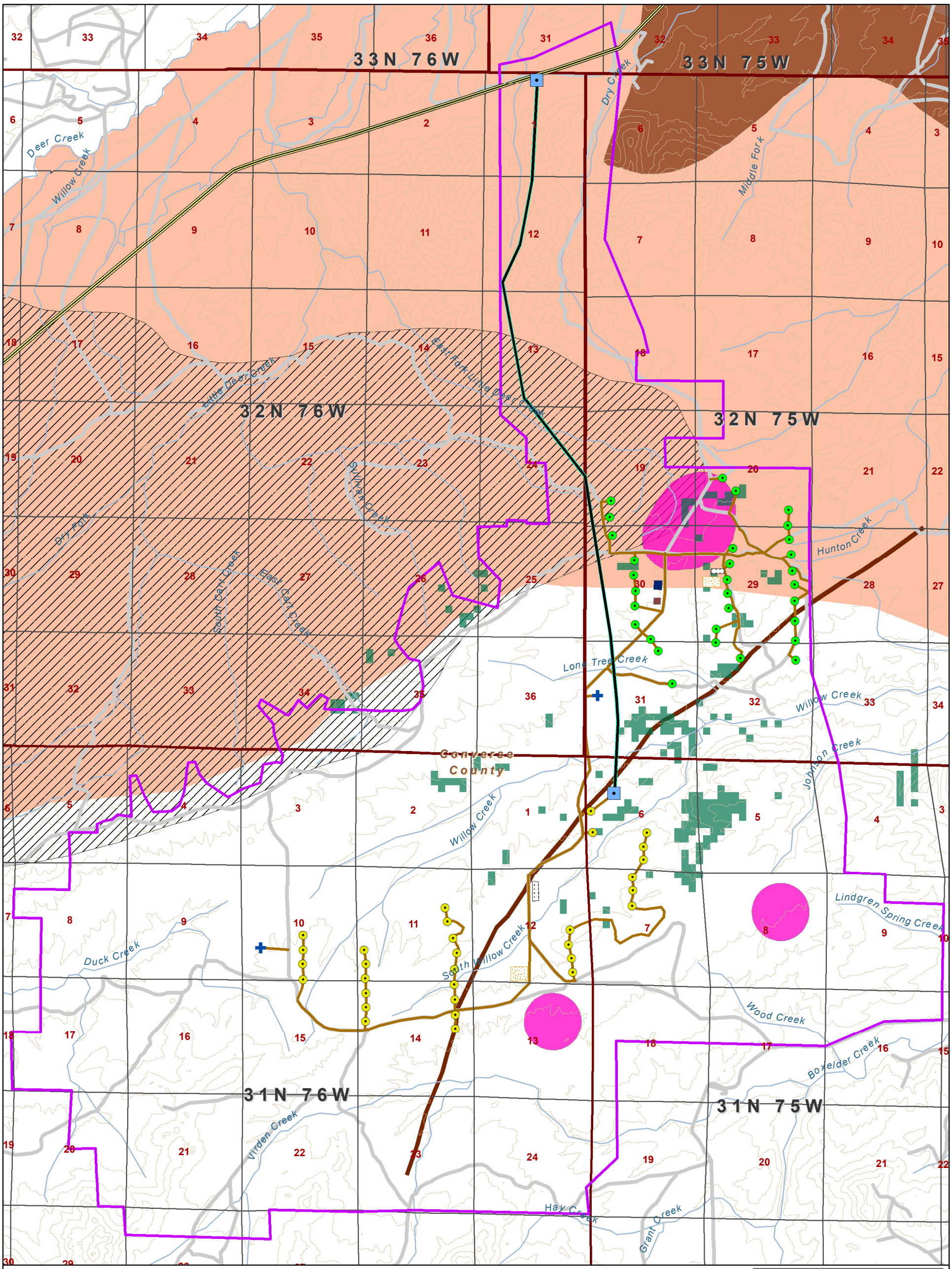
0 0.5 1 2 Miles

N

Map F-8R Vegetation
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

Source: LANDFIRE 2010 & SWCA 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Wildlife Areas

Mule Deer Migration Area
0.25 Buffer Occupied Sage Lek
Elk Winter Range
Antelope Crucial Range
Mule Deer Crucial Range
Raptor Avoidance Zone

N

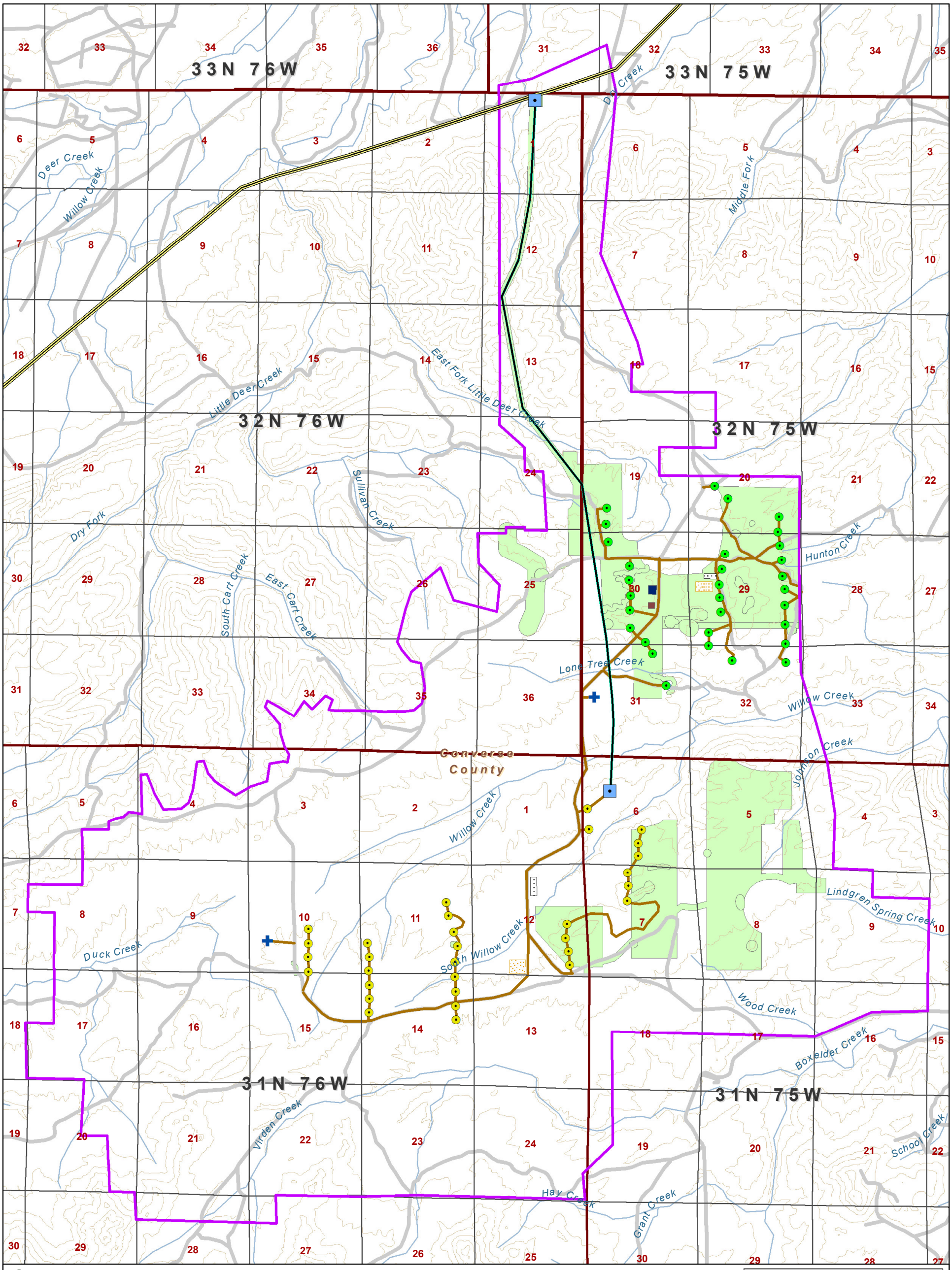
Map F-9R Wildlife
Pioneer Wind Park
Wasatch Wind
Converse County, Wyoming

PioneerWind PARK

1:52,000

0 0.5 1 2 Miles

Source: Wyoming Game 2010 and Fish & SWCA 2010



Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Exisitng Transmission
Laydown Areas
Parking Areas
O&M Building
Batch Plant
Pioneer Study Area Boundary

Cultural Survey Data

Cultural Survey Boundary

1:53,653

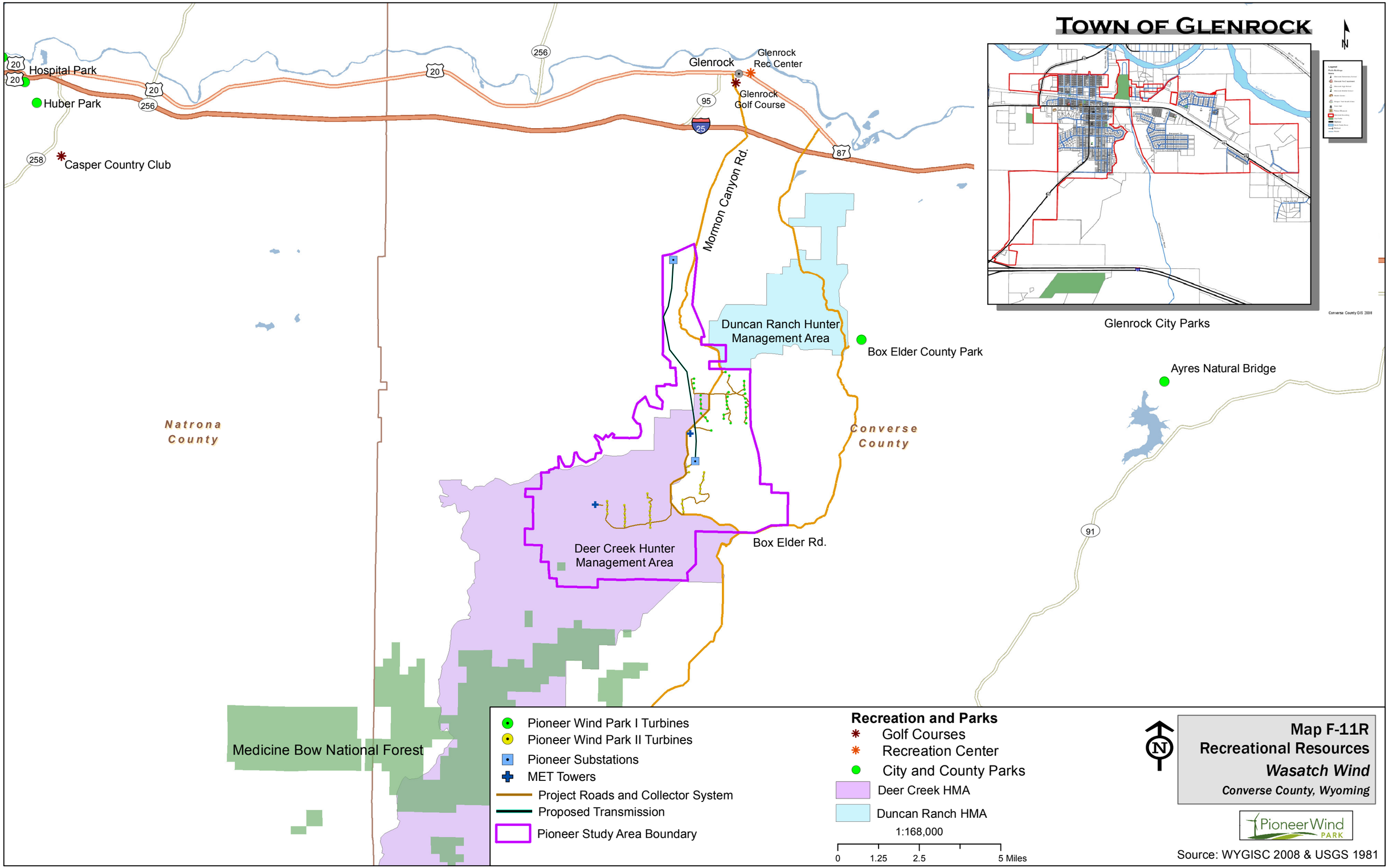
0 0.5 1 2 Miles

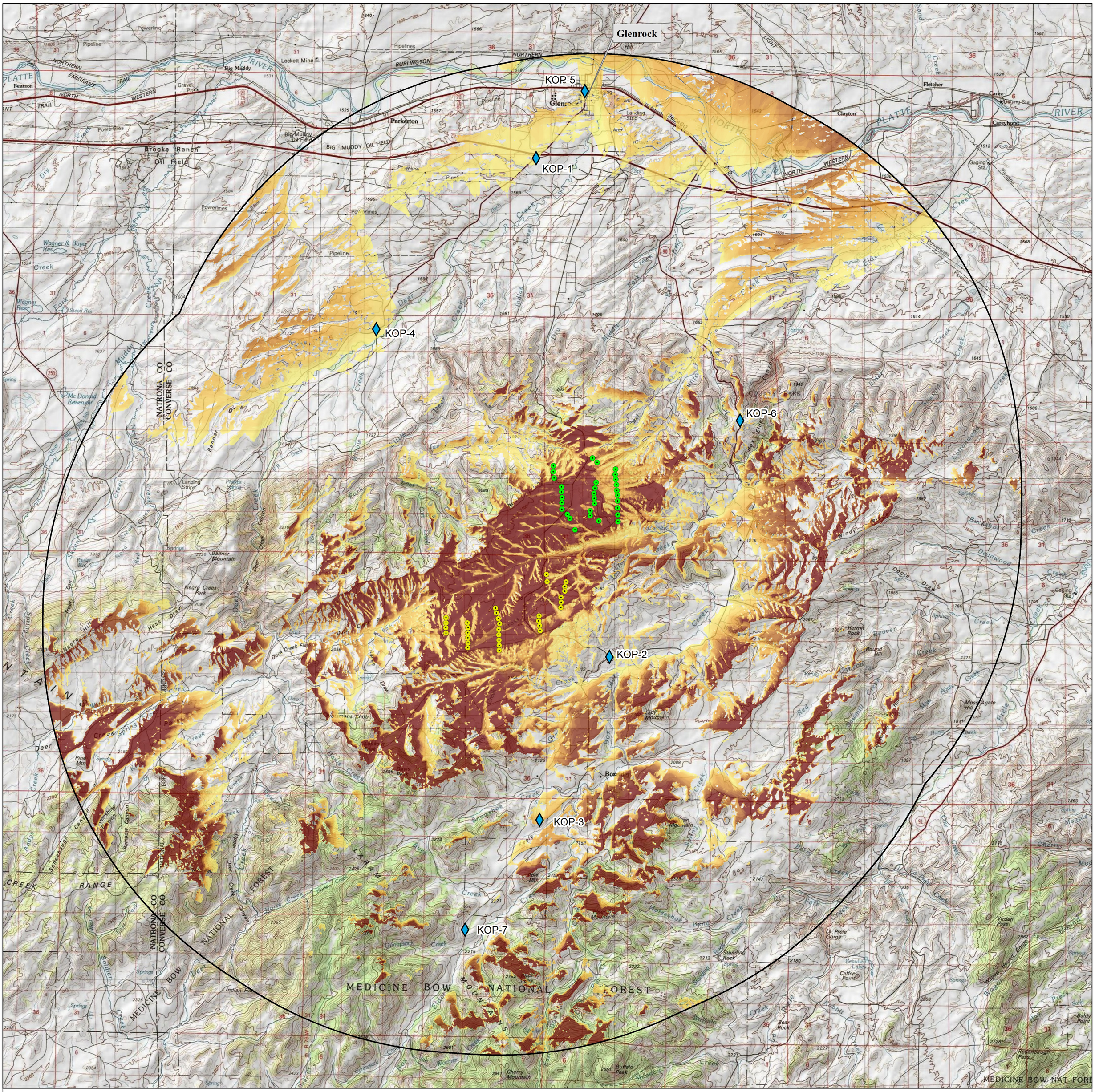
Map F-10R
Cultural Resources Inventory Area
Pioneer Wind Park

Wasatch Wind

Converse County, Wyoming

PioneerWind PARK


Town of Glenrock
Glenrock City Parks
Converse County GIS 2008
Hospital Park
Huber Park
Casper Country Club
Glenrock
Glenrock Rec Center
Glenrock Golf Course
Mormon Canyon Rd.
Duncan Ranch Hunter Management Area
Box Elder County Park
Ayres Natural Bridge
Natrona County
Converse County
Deer Creek Hunter Management Area
Box Elder Rd.
Medicine Bow National Forest
20
256
95
25
87
258
91
Pioneer Wind Park I Turbines
Pioneer Wind Park II Turbines
Pioneer Substations
MET Towers
Project Roads and Collector System
Proposed Transmission
Pioneer Study Area Boundary
Recreation and Parks
Golf Courses
Recreation Center
City and County Parks
Deer Creek HMA
Duncan Ranch HMA
1:168,000
0
1.25
2.5
5 Miles
N
Map F-11R
Recreational Resources
Wasatch Wind
Converse County, Wyoming
PioneerWind PARK
Source: WYGISC 2008 & USGS 1981



Viewshed from Pioneer Wind Park

Wasatch Wind

Converse County, Wyoming

PioneerWind PARK