

MAY 2020

# PIVVOT MAP BOOK

Northern Plains Region



# PIVVOT NORTHERN PLAINS MAP BOOK

This map book outlines the top data sources that energy companies in the Northern Plains need to have available for new construction or major repair and remediation projects.



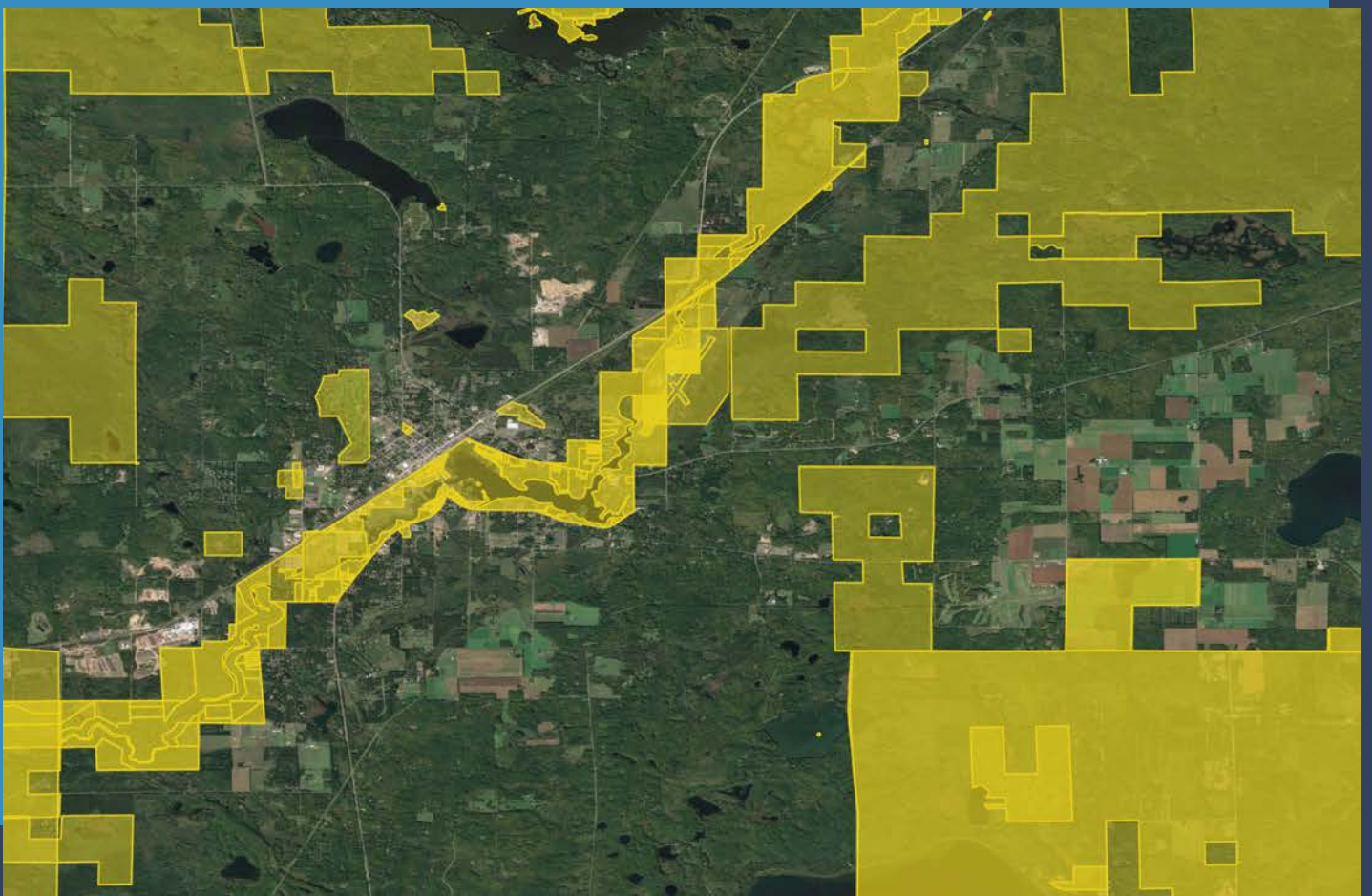
## ABOUT PIVVOT

### Comprehensive Data for Anywhere in the U.S.

Pivvot has curated a massive database of environmental, land, social and other location information – and we make it easy to access, interpret and share.

# LAND OWNERSHIP

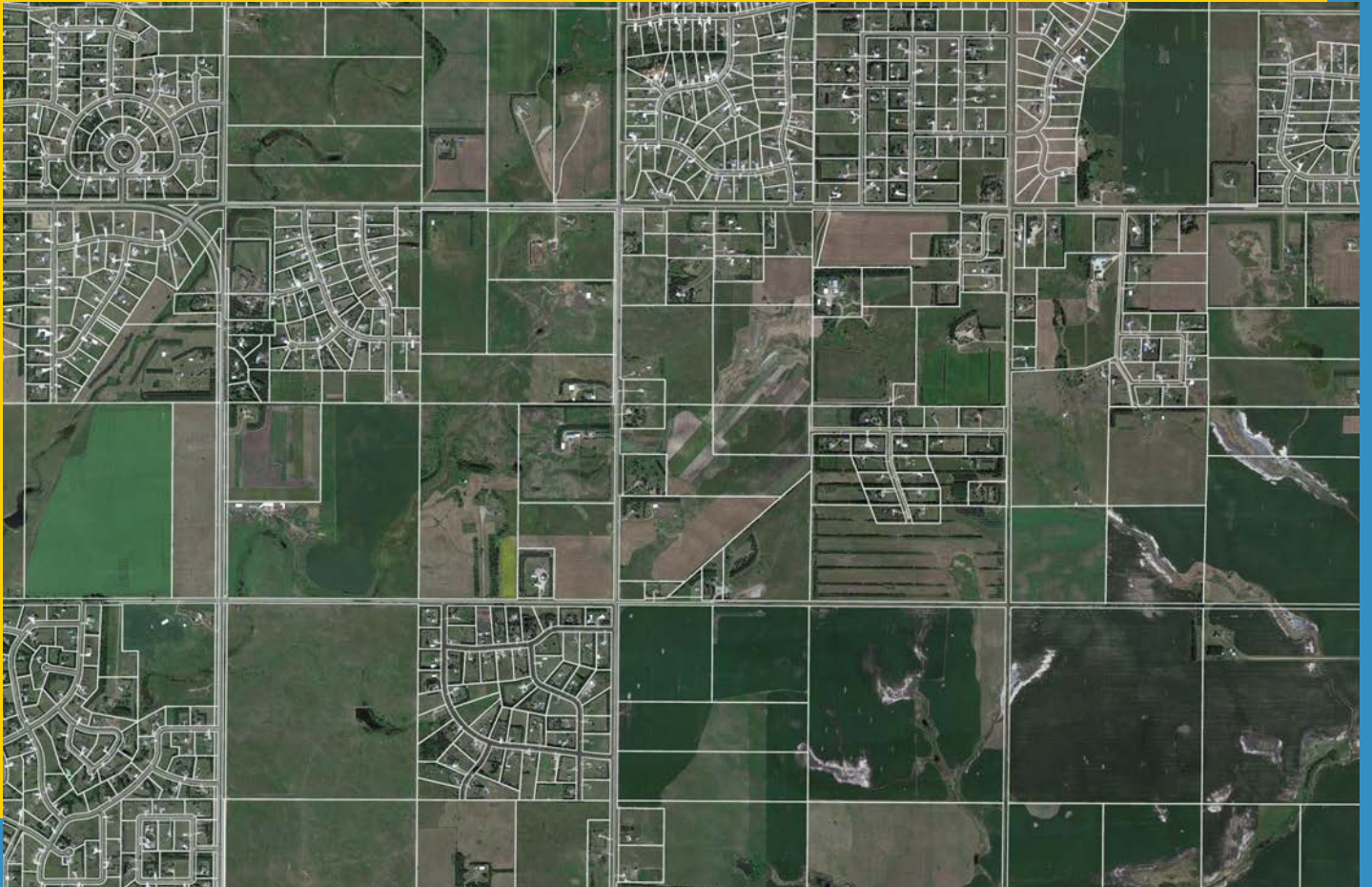
Land ownership conflicts can include tribal, federal, state, county, and known private land owners. In the Northern Plains, it is important to understand Protected Area Database (PAD-US), BLM and Native American information.



It is important to understand land or parcel boundaries that could add complexity to routing, permitting, or scheduling. Avoiding or excluding any lands that could be difficult to acquire could save the project time and money.

# PROPERTY PARCELS

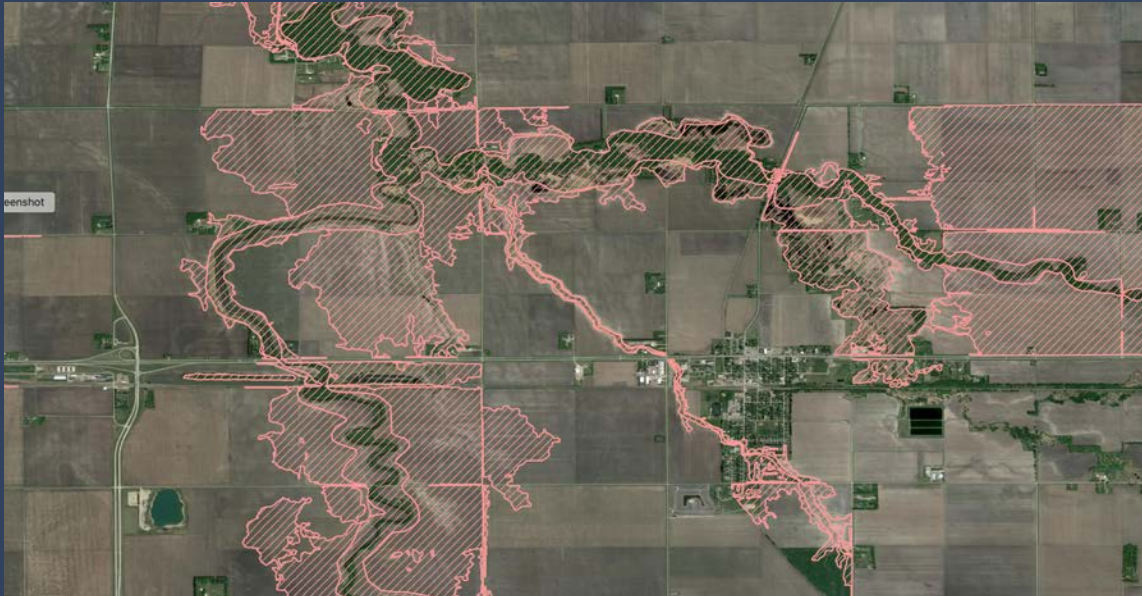
Parcel shapes, ownership, and assessed value are critical to understand permitting and land acquisition needs.



Avoiding or excluding any lands that could be difficult to acquire will save the project and money. With property parcel information, you can develop a line list, understand the properties your asset will cross, determine your easement, and be better prepared for land negotiation.

# FLOOD PLAIN: 100YR

Identifying flood plain areas will help the project analyze where above ground facilities will be located at; such as pump stations, compressor stations, and valves.

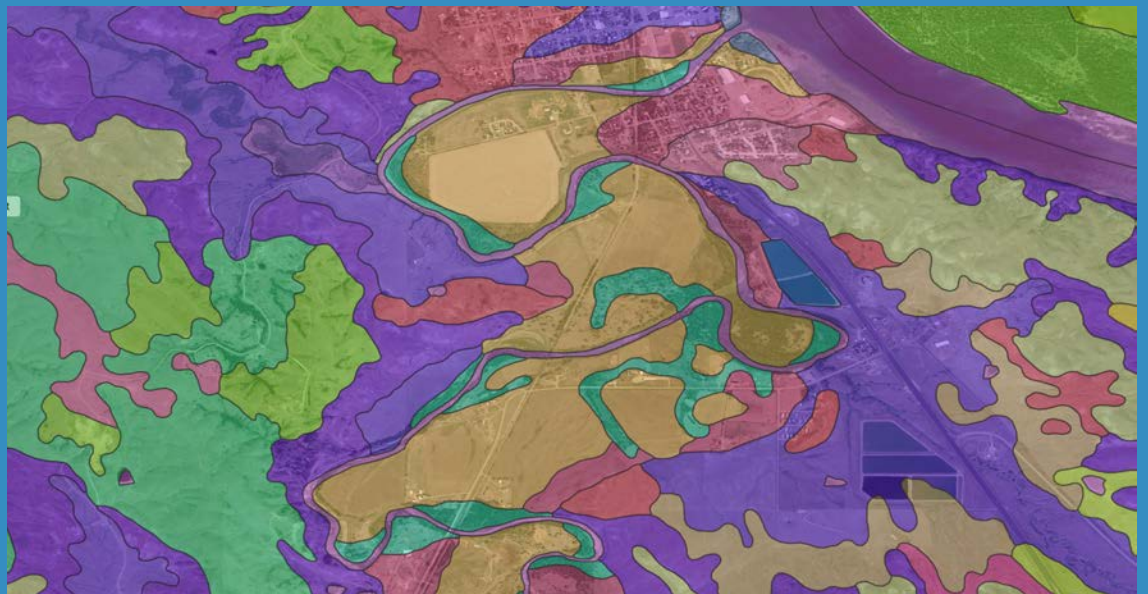
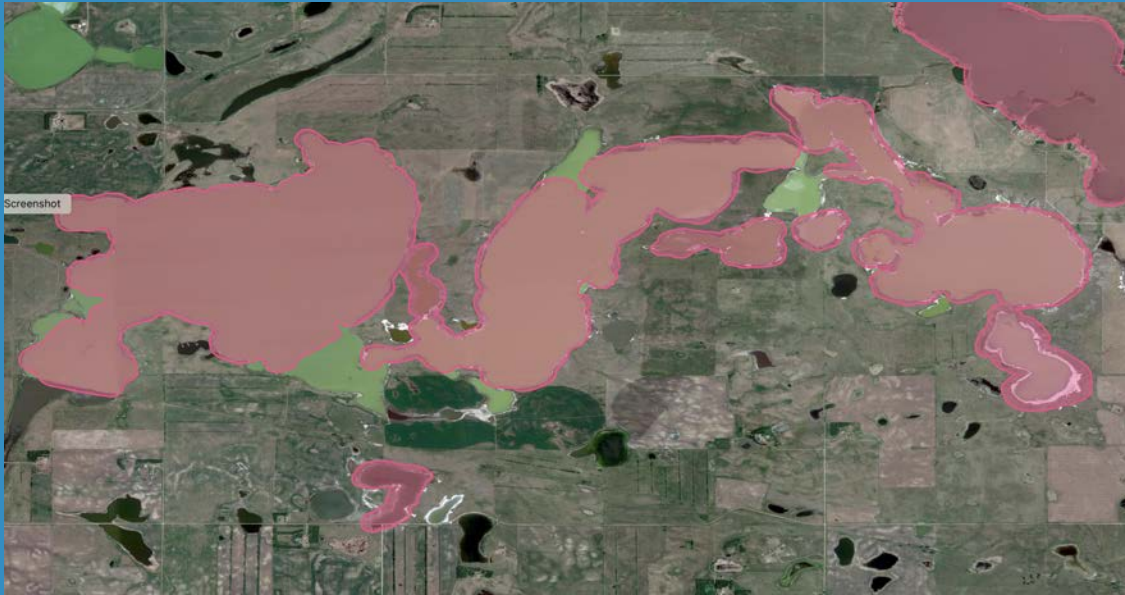


# NWI FORRESTED WETLANDS

Crossing wetlands can add cost and an extended schedule to the project depending upon the type of wetland.

# CRITICAL SPECIES HABITAT

Certain critical habitats and species habitats could have severe implications to a project. Additional permitting analysis and costs could delay or shut the project down depending upon the critical nature of the habitat.

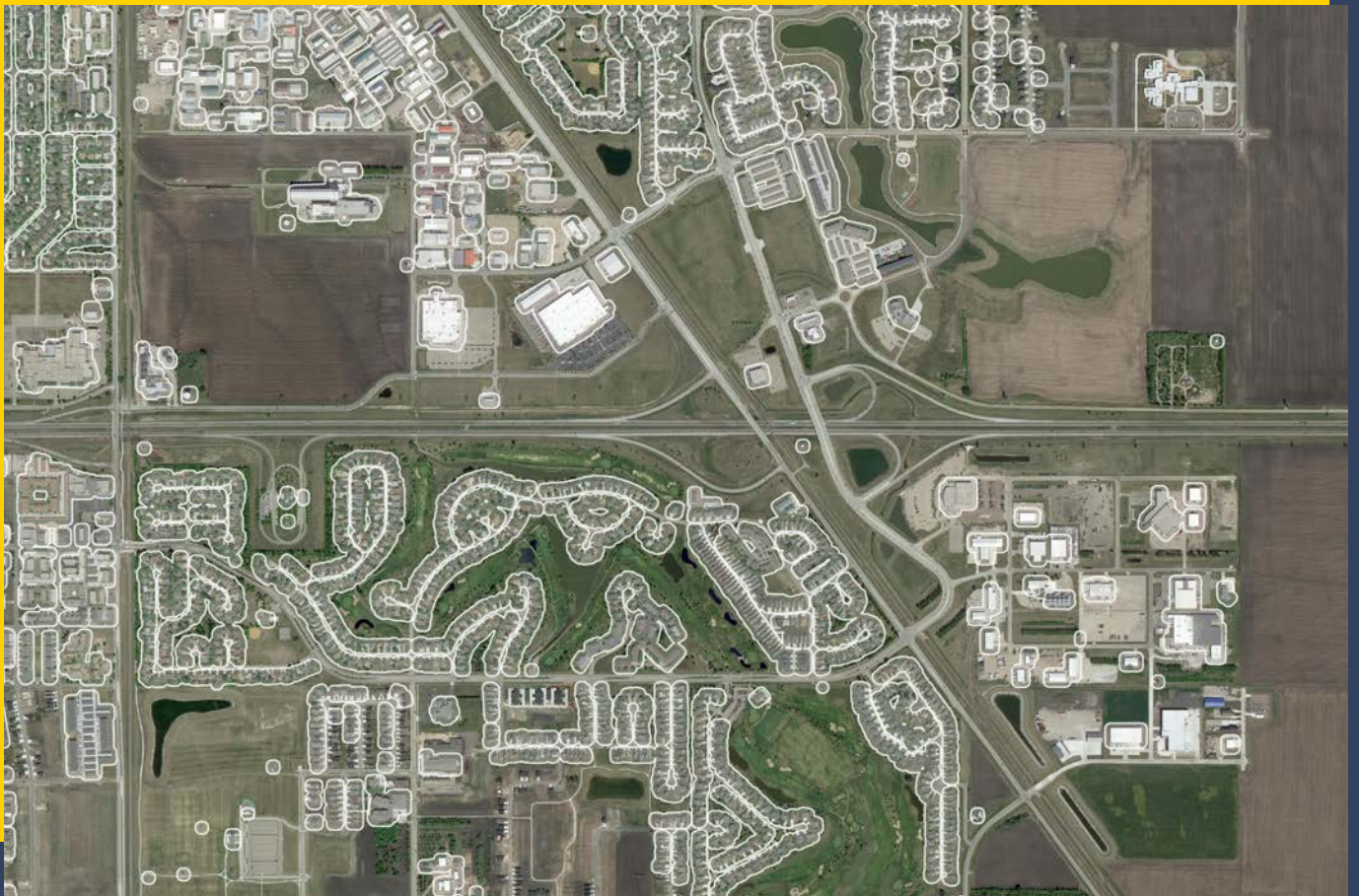


# SOILS (SSURGO)

Certain soils have a higher ponding frequency, frost action, corrosiveness etc. and require more attention during the design phases of the project.

# STRUCTURES (50FT BUFFER)

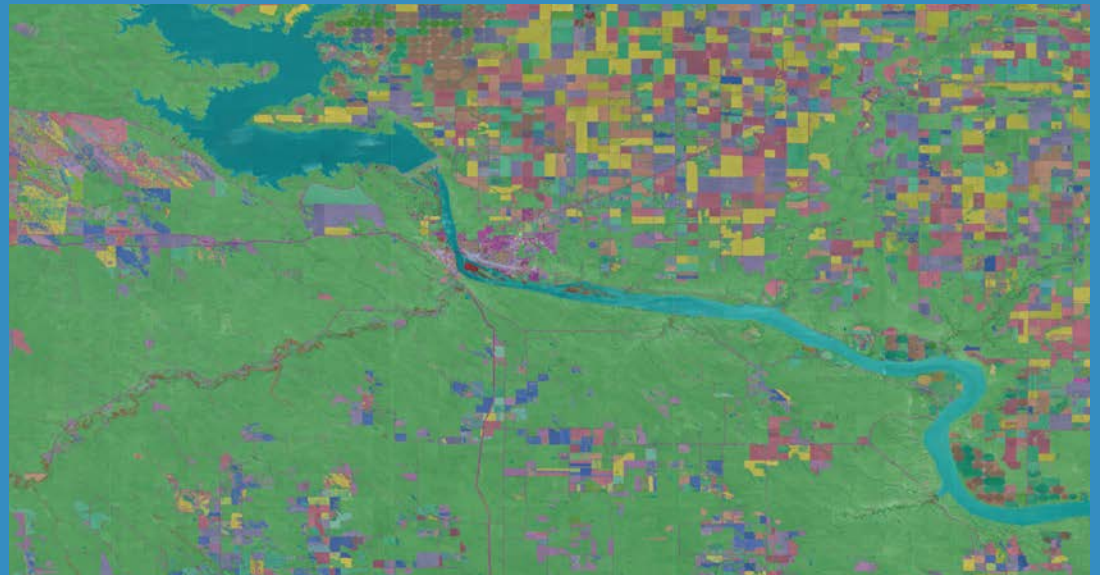
Structures need to be evaluated during new construction as well as asset maintenance and operation efforts to ensure safety.



Understanding the position of pre-existing structures allows new construction projects to avoid densely built areas. For existing assets, relation to structures can aid in risk assessment.

# NHD FLOWLINES

Identifying rivers, streams, canals, ditches are important for understanding project costs. Understanding the type of flow such as perennial, intermittent, and ephemeral will support permitting and expedite schedules.



# LAND COVER

Understanding the type of crops, trees, and other land factors will help develop a reclamation cost plan. This data identifies where higher density, more expensive crops are located.



# PIVVOT DATA

Pivvot also offers hundreds of additional data sources to support energy and infrastructure projects in the Northern Plains and across the United States.

## HYDROLOGY

- Aquifers
- Flood Plain 100/500yr
- Flowline & Waterbodies (NHD)
- Levees
- Navigable Waterways
- Protected Waterbodies
- Wild & Scenic River
- Stream Gauges
- Wetlands (NWI)
- Watersheds

## LAND MANAGEMENT

- Land Cover
- Land Ownership Conflict
- Public Land Survey System
- Property Parcels

## INFRASTRUCTURE

- Building/Structure Outlines
- Existing Pipelines
- Powerlines
- Infrastructure
- Transportation – Road
- Transportation - Railroad

## ECOLOGY

- Critical Habitat
- Species Habitat
- Ecologic Regions

## JURISDICTIONS

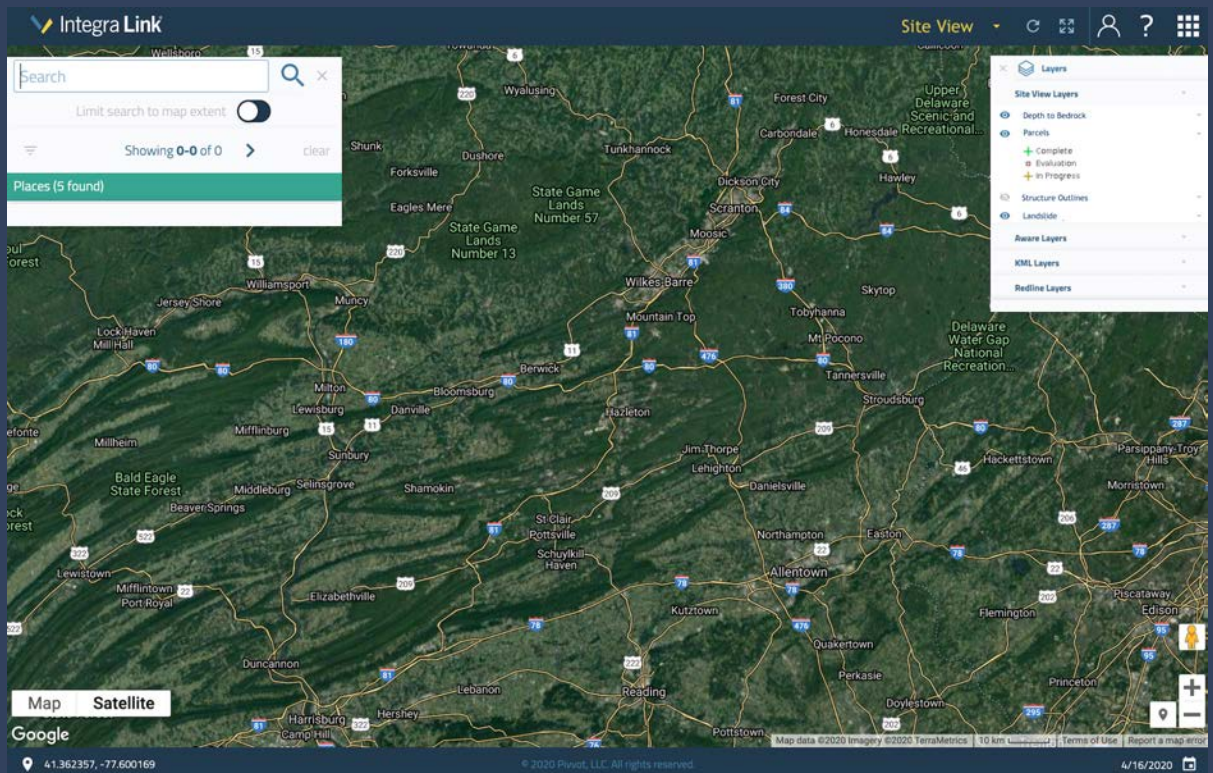
- Census Zip Tabulation Areas
- Congressional Districts
- County Boundary
- Energy Regulatory Regions
- Electric Retail Service Area
- Natural Gas Service Areas
- Oil & Gas Work Regions
- Populated Areas (PHMSA)
- Public Safety Answering Points
- State Legislative Districts
- School Districts
- Social Vulnerability
- State Legislative Districts
- US Army Corp Districts
- US Fish & Wildlife Regions

## GEOLOGY & GEOTECHNICAL

- Depth to Bedrock
- Digital Elevation Model
- Fault Area
- Fault Lines
- Geological Units
- Karst Topography
- Landslide Risk
- Peak Ground Acceleration
- Slope (Percent)
- Soils (SSURGO)

# PIVOT PLATFORM

The data in this book and hundreds of other sources are easily accessible to view, interpret and share through the Pivot platform.



## Aware

Drop a location, draw a polygon or a route and gain a detailed understanding of your surroundings.

## Collaborate

Collaborate with your teams, customers, and third-parties on a simple, fast and familiar map.

## Route

Generate point-to-point preferred routes utilizing our data, platform and your criteria in record time.

# PIVVOT SERVICES

Pivvot has gathered a team of data, technology, and industry experts to build and maintain our data and platform. Our solutions were purpose-built with deep technical knowledge of the industry problems we solve. Our team is available to provide data acquisition services, consultation and analysis.

## Extended Support

- Onsite & Custom Training
- Implementation Data Services
- Custom Workflows & Documentation

## Data Services

- Acquisition of Custom Datasets
- Data Processing & Preparation
- Quality & Accuracy Checks
- Custom Data Approaches

## Industry Expertise

- Routing Analysis
- GIS Analysis
- Subject Matter Expertise Consulting