CAR1436 Listing Attachment E

Provide descriptions and a georeferenced GIS shapefile(s) of the Project Area (all GIS data was accessed on the date of this document) including:

1. Governing jurisdictions, and latitude/longitude coordinates:
   State of West Virginia, USA
   Latitude: 37.834 N
   Longitude: -81.922 W

2. Public and private roads (shapefile only):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 1: Attachment E-A. Map_TownsRoads (georeferenced spatial data)
   Source Data: Ownership shapefile provided by OPO
   Roads: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community (accessed through ESRI BaseMap)
   http://goto.arcgisonline.com/maps/World_Street_Map

3. Towns (shapefile only):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 1: Attachment E-A. Map_TownsRoads (georeferenced spatial data)
   Source Data: Ownership shapefile provided by OPO
   Towns: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community (accessed through ESRI BaseMap)
   http://goto.arcgisonline.com/maps/World_Street_Map

4. Major watercourses (4th order or greater), water bodies, and watersheds (shapefile only):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 2: Attachment E-B. Map_Watercourses (georeferenced spatial data)
   Source Data: Ownership shapefile provided by OPO
   Watercourses and Waterbodies: tl_2016_01007_linearwater.shp, tl_2016_01073_linearwater.shp, tl_2016_01117_linearwater.shp, tl_2016_01125_linearwater.shp, tl_2016_01127_linearwater.shp
   Watersheds:
   Publicly available data from the US Census Bureau.
   https://www.census.gov/

5. Topography (shapefile only):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 3: Attachment E-C. Map_Topography (georeferenced spatial data)

Source Data: Ownership shapefile provided by OPO
Publicly available data from the ArgGIS online1
http://goto.arcgisonline.com/maps/USA_Topo_Maps

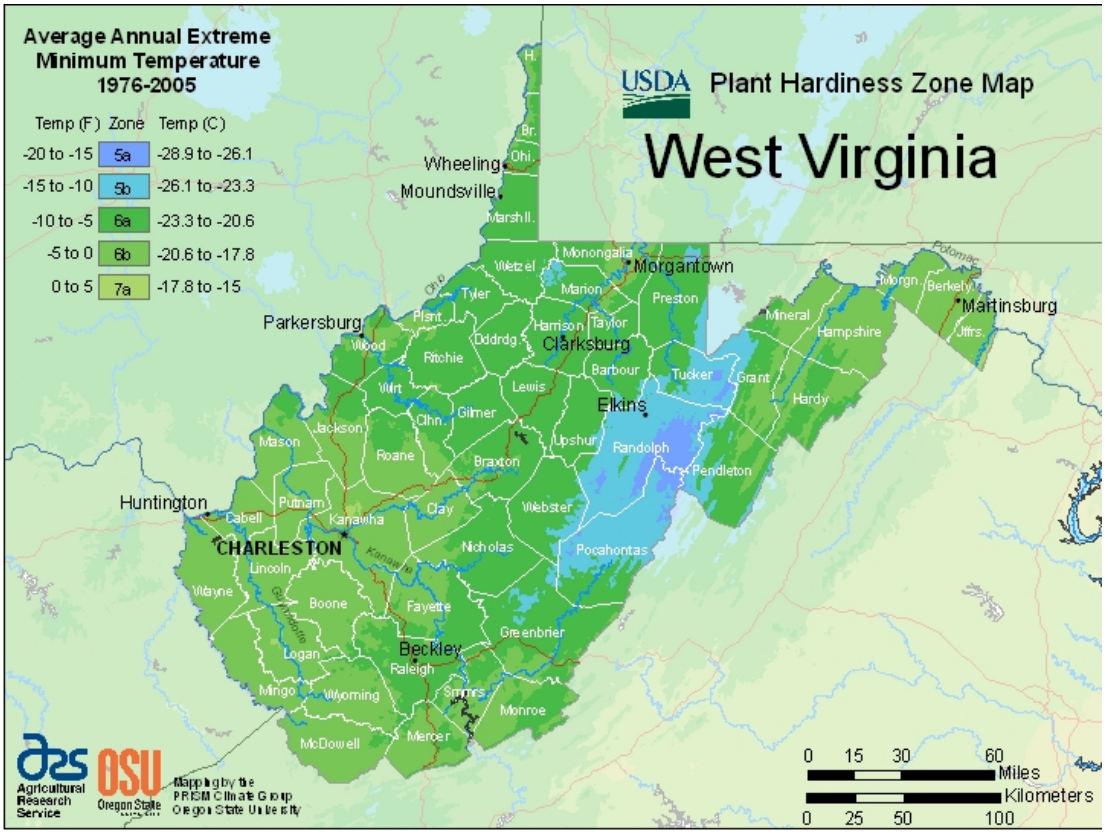
6. Townships, ranges, and sections (shapefile only):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 4: Attachment E-D. Map_PLSSLatLong (georeferenced spatial data)
   Source Data: Ownership shapefile provided by OPO
   Township and Section data: PLSS_Townships.shp – Publicly available data from the USDA
   https://gdg.sc.egov.usda.gov/GDGOrder.aspx

7. Existing land cover and land use (description with optional shapefile):
   The Project Area is comprised of several large blocks of managed natural forest in West Virginia providing critical habitat for native flora and fauna. The property is managed for a wide variety of recreational, wildlife, timber, and other multiple use objectives.

8. Forest vegetation types (description with optional shapefile):
   See CAR1436 Listing Attachments E and F Maps v1.0.pdf
   Page 5: Attachment E-E. Map_AssessmentAreas (georeferenced spatial data)
   Source Data: Ownership shapefile provided by OPO
   Assessment Area: data file from the California Air Resources Board
   https://www.arb.ca.gov/cc/capandtrade/protocols/usforest/2015/super.section.shapefiles5.4.15.zip
   The forest vegetation within the Project Area boundary is predominately comprised of species such as Yellow Poplar, Chestnut Oak, Northern Red Oak, American Beech and other mixed hardwoods and conifers. Forest types are categorized into different Assessment Areas within each Supersection following documentation and guidance from the Air Resources Board.

9. Site classes (description with optional shapefile):
   Site classes that exist in the Project Area are common for the region.

10. Land pressures and climate zone/classification (description with optional shapefile):
    The primary land use for Project Area's region is forestry with very limited residential development. Review of air photos and satellite imagery reveal a forest dominated landscape. The project lies entirely in the 7b climate zones as shown on USDA Plant Hardiness Zone Maps.



Source: https://planthardiness.ars.usda.gov/PHZMWeb/

11. <u>Historical land uses, current zoning, and projected land use within the Project Area (description with optional shapefile)</u>:

    The historical land uses have been timber production and outdoor recreation, as well as mining activity within the region. The Project Area is currently zoned as multiple use to support a wide variety of land use objectives. Projected land use within the Project Area is expected not to change from its current use and will support the same land uses in this portion of West Virginia.