

Cultural Resources Background Research and Desktop Review for the 991-Acre Southwest Arkansas Mega Site in Clark County, Arkansas

Prepared by:

Flat Earth Archeology, LLC
2251 Bill Foster Memorial Highway, Suite B
Cabot, AR 72023

Authored by:

Devin Sorrows, RPA and Pritam Chowdhury, RPA



Chris M. Branam, RPA – Principal Investigator

Prepared for:

Economic Development Corporation of Clark County, Arkansas
PO Box 400
Arkadelphia, AR 71923



Flat Earth Archeology, LLC

F.E.A. PROJECT LC257065

June 2025

DESKTOP REVIEW

Historic Properties

Flat Earth Archeology conducted background research and studies of the Project Area (Figure 1). Personnel conducted a records check on the AHPP GIS Historic Properties database and AMASDA database to determine if historic properties as defined by 36 CFR 800.16(l)(1) occur within or proximal to the Project Area. According to the AHPP and AMASDA databases, there is one historic property as defined by 36 CFR 800.16(l)(1) within the Project Area (AHPP 2025; AMASDA 2025). Old Arkansas 51, Curtis to Gum Springs (AHPP Resource CL0749) is an abandoned highway located between the towns of Curtis and Gum Springs. This roadway feature was added to the National Register of Historic Places on January 21, 2004 (Sesser 2024). No other historic properties occur within one mile of the Project Area (Figure 2).

Previously Recorded Archeological Sites

Devin Sorrows, RPA searched the records in the archeological site database, AMASDA Online, maintained by the Arkansas Archeological Survey (ARAS) in Fayetteville to check for previously recorded archeological sites within one mile from the Project Area (AMASDA 2025). There were 24 previously recorded archeological sites within this search area (Table 1). Sites 3CL0493, 3CL0494, 3CL0508, 3CL0913, 3CL0914, 3CL0915, and 3CL0916 occur within the Project Area (Figure 3).

Table 1. Previously Recorded Archeological Sites within One Mile of Project Area						
Site Number	Surface Scatter > 100 sq m	Structure Exists on Site	Site National Register Eligibility	Site Artifact Material	Site Cultural Affiliation	Distance from Project Area in Miles
3CL0261	Yes	No	1--70678-- Undetermined--2010-04-12 2--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal 24--Ceramics, Historic 27--Metal, Historic 45--Building Material, Historic 49--Glass	72--Prehistoric 96--Historic Period 149--(AT) Dev Settl	0.73
3CL0262	Yes	No	1--70678-- Undetermined--2010-04-12 2--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal	72--Prehistoric 96--Historic Period	0.60
3CL0263	Yes	No	0--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal	72--Prehistoric	0.55
3CL0264	Yes	No	0--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal	72--Prehistoric	0.73
3CL0265	Yes	No	0--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal	72--Prehistoric	0.67
3CL0266	Yes	No	1--70678-- Undetermined--2010-04-12 2--99179--Not Eligible--2018-02-12	24--Ceramics, Historic 45--Building Material, Historic 49--Glass	96--Historic Period 149--(AT) Dev Settl	0.62
3CL0267	Yes	No	0--99179-- Undetermined--2018-02-12	20--Lithics, Aboriginal	1--Archaic Period 6--Archaic, Middle/Late	0.82

Table 1. Previously Recorded Archeological Sites within One Mile of Project Area

Site Number	Surface Scatter > 100 sq m	Structure Exists on Site	Site National Register Eligibility	Site Artifact Material	Site Cultural Affiliation	Distance from Project Area in Miles
3CL0268	Yes	No	1--70678--Undetermined--2010-04-12 2--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal 24--Ceramics, Historic 27--Metal, Historic 45--Building Material, Historic 49--Glass	72--Prehistoric 96--Historic Period 149--(AT) Dev Settl	0.54
3CL0269	Yes	No	0--99179--Not Eligible--2018-02-12	24--Ceramics, Historic 27--Metal, Historic 45--Building Material, Historic 49--Glass	96--Historic Period	0.34
3CL0310	Yes	No	-----	20--Lithics, Aboriginal	39--Fourche Maline 85--Woodland Period	0.73
3CL0398	Yes	No	1--70678--Undetermined--2010-04-12	20--Lithics, Aboriginal	5--Archaic, Middle 6--Archaic, Middle/Late 7--Archaic, Late 72--Prehistoric	0.91
3CL0422	Yes	No	1--70678--Not Eligible--2010-04-12 2--105126--Not Eligible--2020-01-09	20--Lithics, Aboriginal	72--Prehistoric	0.98
3CL0434	No	No	-----	20--Lithics, Aboriginal	1--Archaic Period 5--Archaic, Middle 80--Tom's Brook Complex 149--(AT) Dev Settl	0.66
3CL0481	No	No	0--99179--Not Eligible--2018-02-12	20--Lithics, Aboriginal	102--(AT) Pioneer Settlmt, Agriculture	0.43
3CL0493	No	No	-----		102--(AT) Pioneer Settlmt, Agriculture	In Project Area
3CL0494	No	No	-----		102--(AT) Pioneer Settlmt, Agriculture	In Project Area
3CL0503	No	No	-----		39--Fourche Maline 102--(AT) Pioneer Settlmt, Agriculture	0.35
3CL0507	No	No	-----		102--(AT) Pioneer Settlmt, Agriculture	0.96
3CL0508	No	No	-----		102--(AT) Pioneer Settlmt, Agriculture	In Project Area
3CL0883	No	No	-----		96--Historic Period	0.85
3CL0913	No	No	0--98848--Not Eligible--2018-01-23	45--Building Material, Historic 48--Other Material, Historic 49--Glass	96--Historic Period	In Project Area
3CL0914	No	No	0--98848--Not Eligible--2018-01-23	24--Ceramics, Historic 45--Building Material, Historic 49--Glass	96--Historic Period	In Project Area
3CL0915	No	No	0--98848--Not Eligible--2018-01-23	24--Ceramics, Historic 45--Building Material, Historic	96--Historic Period	In Project Area
3CL0916	No	No	0--98848--Not Eligible--2018-01-23	24--Ceramics, Historic 45--Building Material, Historic 49--Glass	96--Historic Period	In Project Area

Previously Conducted Archeological Projects

Eight previously conducted archeological projects were identified within one mile of the Project Area (Table 2) (AMASDA 2025). While AMASDA Numbers 166 and 7172 abutted the Project Area, AMASDA Number 7156 coincided with the upper portion of the Project Area (Figure 4). At the request of Crafton Tull Engineering and Surveying (Crafton Tull), Flat Earth Archeology, LLC (Flat Earth Archeology) conducted a Phase I cultural resources survey of approximately 83 ac (33.6 ha) for a proposed paper manufacturing plant near Gum Springs in Clark County, Arkansas. The Project Area was a roughly rectilinear area comprised of approximately 0.34 km² (83 ac). Flat Earth Archeology identified the historic AR-51 Curtin to Gum Springs Highway segment (CL0749), located 13 m (42 ft), east of the Project Area. This was the only National Register of Historic Places (NRHP) listed historic property proximal to the Project Area. Flat Earth Archeology determined that the proposed construction of the paper manufacturing plant was unlikely to cause effects to CL0479. There were no other historic properties listed in or eligible for the National Register of Historic Places indicated on the AHPP GIS database within the Project Area. Flat Earth Archeology also identified 14 previously recorded archeological sites within a 1.6 km (1 mi) radius of the Project Area. The closest previously recorded site, Site 3CL0508, occurred 0.29 km (0.18 mi) from the Project Area. The remaining 13 sites were situated over 1 km from the Project Area. Flat Earth Archeology determined that development of the proposed paper manufacturing plant was unlikely to cause effects to these cultural resources as they were situated outside of the Project Area. The investigation documented four archeological sites: 3CL0913, 3CL0914, 3CL0915, and 3CL0916. All were historic surface scatters. The artifact collection included brick fragments, whiteware sherds, colorless glass shards, ironstone sherds, and milk-glass artifacts. Flat Earth Archeology recommended Sites 3CL0913, 3CL0914, 3CL0915, and 3CL0916 ineligible for listing in the NRHP. No additional cultural resources work was recommended for these sites. Based on the results of the survey, Flat Earth Archeology recommended that the proposed undertaking met the criteria for a finding of No Historic Properties Affected as per 36 CFR 800.4 (d)(1). No additional cultural resources investigation was recommended for the Project Area (Branam et al. 2017).

AMASDA Number	Project Name	Year	Investigating Entity	Sponsor	Project Work Type
166	Clark County Industrial Park Survey	1978-00-00	Arkansas Archeological Survey	Clark County Industrial Foundation	41--Field Reconnaissance, Intensive
852	Arkla Line-S Resurvey Three Sites	1986-00-00	Sponsored Research Program - AASurvey	Arkla Gas Co.	41--Field Reconnaissance, Intensive
4780	Proposed Tie Line Corridor and the Gum Springs Substation in Pike County	2004-00-00	Weaver & Associates	Ledbetter, Corner & Associates, Inc.	41--Field Reconnaissance, Intensive
5058	Clark County Area Maintenance Headquarters (PIF)	2005-00-00	Arkansas Highway & Transportation Department	AHTD	41--Field Reconnaissance, Intensive
7012	Southwest Authority Intermodal Railroad Extension	2016-00-00	Flat Earth Archeology, LLC.	Crafton Tull	41--Field Reconnaissance, Intensive
7156	Phase I for 80 Acre Paper Manufacturing Plant	2017-00-00	Flat Earth Archeology, LLC	Crafton Tull Engineers	41--Field Reconnaissance, Intensive

Table 2. Previously Conducted Archeological Projects within One Mile of the Project Area					
AMASDA Number	Project Name	Year	Investigating Entity	Sponsor	Project Work Type
7172	Railroad Extensions in Clark Co. (Addendum Report)	2018-00-00	Flat Earth Archeology, LLC	Crafton Tull	41--Field Reconnaissance, Intensive
7191	Southwest Authority Intermodal Railway Extension (addendum 2)	2018-00-00	Flat Earth Archeology, LLC	Crafton Tull	41--Field Reconnaissance, Intensive

Historical Improvements

The First Land Patents records and the General Land Office plats were also consulted for information regarding the history of land ownership of the Cultural Resources Investigation Boundary. The Bureau of Land Management's First Land Patent records contain many of the names of the initial legal landowner for each section of land. These records generally contain other information regarding the first legal landowners such as how the land was obtained (i.e. homestead, cash entry, scrip warrant, etc.), the acreage obtained in the patent, the legal description of the land, and the date of the patent issuance. Moreover, General Land Office Maps usually show areas with historical development, often depicting improvements such as agricultural fields, roads, or structures, along with names of landowners. The General Land Office (GLO) original survey plat for Township 8 South, Range 20 West, surveyed in 1819, details a historical roadway intersecting the southern perimeter of the Project Area (Figure 5) (GLO 2025a). The GLO dependent resurvey plat for Township 8 South, Range 20 West, approved in 1854, details a historical roadway intersecting north-south the western portion of the Project Area. Additionally, three agricultural fields are present in the eastern portion of the Project Area (Figure 6) (GLO 2025b).

A survey map and aerial imagery produced throughout the middle twentieth century by the USGS were reviewed for historical improvements within or proximal to the Project Area. The September 1949 aerial imagery details a road trace carving north-south through areas of mixed hardwoods and softwoods within the western portion of the Project Area. A small, cleared field is present in the southwestern portion of the Project Area. A majority of the landscape, however, is dominated by agricultural fields and pastures with associated residential improvements. Residences are especially evident in the northwestern portion of the Project Area and occur proximal to a prominent roadway that intersects and parallels the northwestern perimeter of the Project Area. The Old Arkansas 51, Curtis to Gum Springs (AHPP Resource CL0749) parallels the western perimeter of the Project Area (Figure 7) (USGS 2025a). The only notable change to the built environment within the Project Area by April 1958 is the parallel construction of U.S. Highway 67 to the east of Old Arkansas 51, Curtis to Gum Springs (Figure 8) (USGS 2025b).

The 1959 (1960 edition) Arkadelphia, AR Topographic Quadrangle detail three intermittent creeks in the eastern half of the Project Area that feed into Waggle Creek. Additionally, Caney Creek extends through the western extent of the Project Area. The historical improvements indicated in the western half and northwestern portion of the Project Area on the past aerial imagery are further defined on the topographic quadrangle (Figure 9) (USGS 2025c). These person-made and natural features are also present on the January 1968 aerial imagery (Figure 10) (USGS 2025d).

Cemeteries

Personnel reviewed USGS 7.5 min. topographic quadrangles to identify cemeteries within one mile of the Project Area that are not recorded as historic properties or archeological sites. There is one cemetery recorded within this search area. The Richwoods Cemetery is located 1.25 km (0.78 mi) east of the Project Area (Figure 11). The cemetery contains at least 480 monuments dating from the late nineteenth century to the early twenty-first century. Seventy-nine percent of the monuments are photographed and are available online (Find A Grave 2025).

Trail of Tears National Historic Trail

Trail of Tears National Historic Trail shows the nearest corridor of the Trail of Tears National Historic Trail. The segment is an overland route occurring roughly 4.8 km (2.98 mi) northwest of the Project Area (Figure 12) (NPS 2024). A review of *Footprints Across Arkansas: Trail of Tears Removal Corridors for the Cherokees, Chickasaws, Choctaws, Creeks & Seminoles* by Amber M. Horne (2006) does not present any additional corridors in closer proximity to the Project Area.

Note that Tribal nations may have proprietary information not reflected in the NPS data, in Horne's 2006 publication, or other published sources. The information presented herein is not exhaustive. It is incumbent on the federal agency or authorized representative to make a reasonable and good faith effort to identify consulting parties and invite their participation in the Section 106 process. Federal law, regulations, and policy require consultation.

Conclusion

There are seven previously recorded archeological sites and one historic property as defined by 36 CFR 800.16(l)(1) within the Project Area. The immediate environment of the Project Area is a mosaic of cleared woodland and open prairies divided by intermittent creeks and drainages. The surrounding environment predominantly consists of oak–hickory–pine forests and pastureland. Water sources occur throughout the Project Area including several drainages, three intermittent creeks in the eastern half of the Project Area that feed into Waggle Creek, and Caney Creek extending through the western extent of the Project Area. The soil types in the Project Area are shown and detailed in Figures 14 through 23 (Natural Resources Conservation Service [NRCS] 2025). For descriptions of these soil types see Figures 9 through 17. The 2006 Five Meter Resolution Hillshade Model details multiple rises throughout the Project Area divided by property boundaries and creeks (Figure 18). Flat Earth Archeology determined that the archival data and geography of the Project Area support a moderate to high probability of intact archeological deposits in the Project Area. This determination is only a probability based on ARAS archival data, GLO plat data, USGS topographic quadrangle data, USGS aerial imagery data, U.S. Fish and Wildlife Service data, Federal Emergency Management Agency data, NRCS soil data, Arkansas GIS Office data and is not a statement that there "are" or "are not" intact cultural resources at these locations. This determination only serves as a preliminary estimate of the general probability for the presence or absence of undiscovered archeological resources and is based on the location information provided, state archeological site records, and assessment of the physical environment as detailed in the aforementioned datasets.

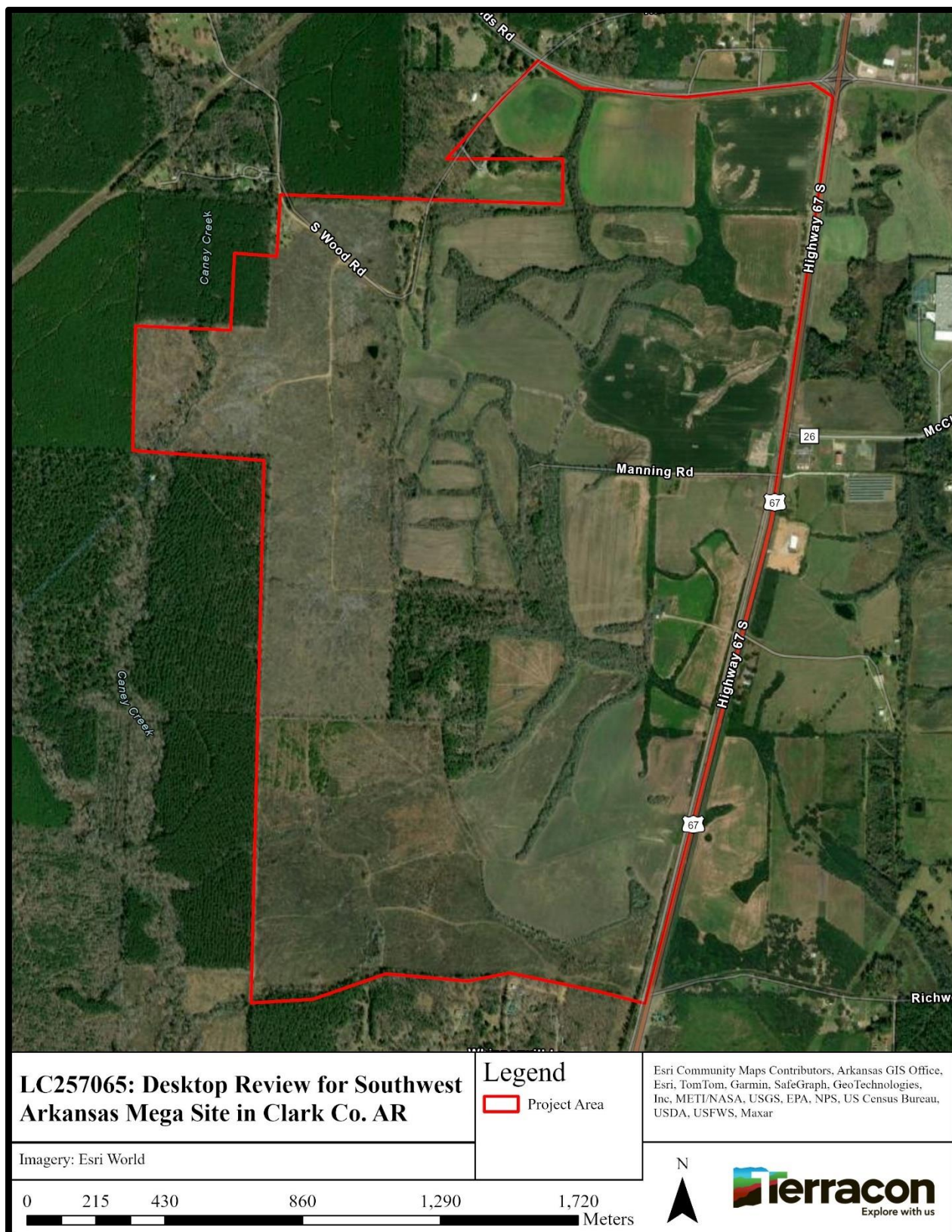


Figure 1. Project Area detailed on Esri World Imagery

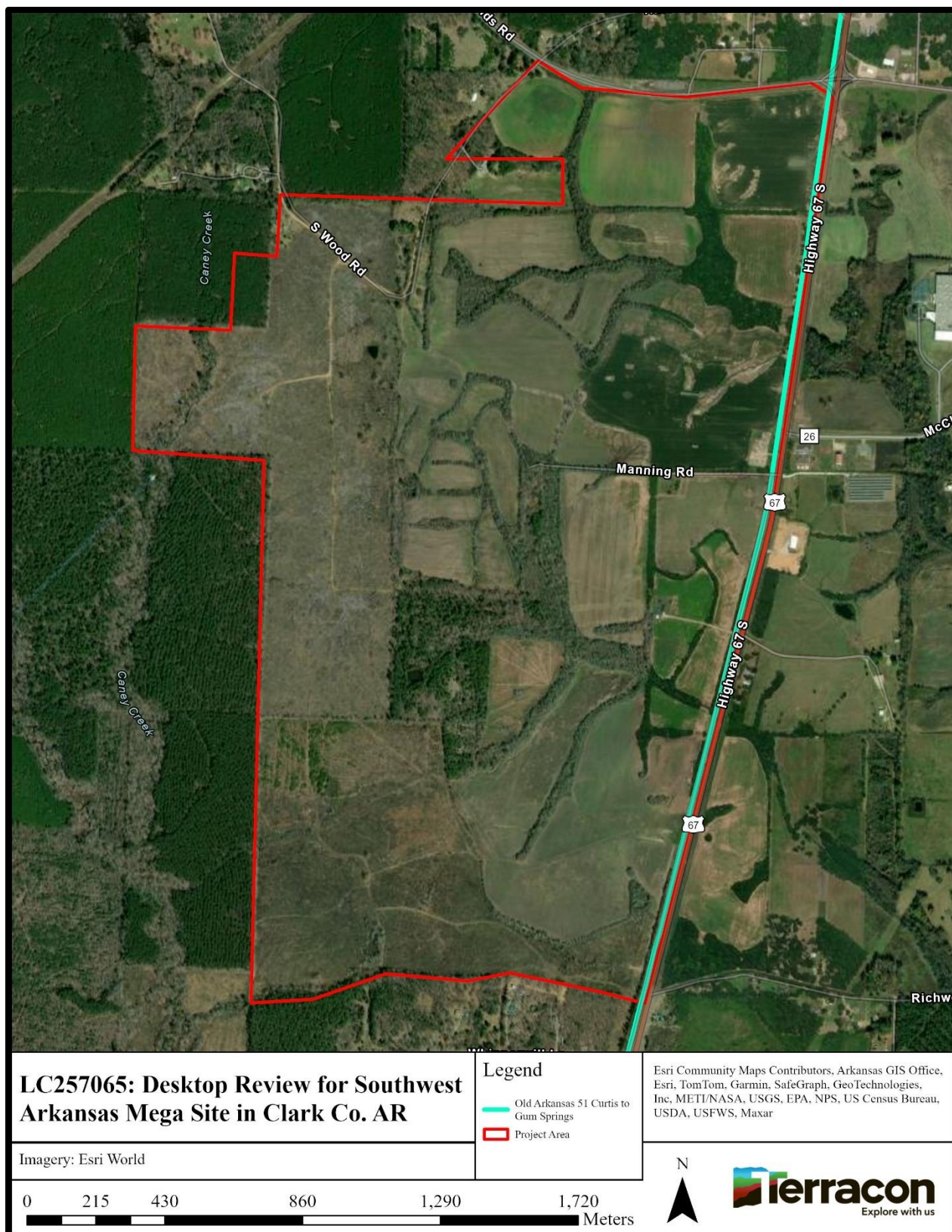


Figure 2. Old Arkansas 51, Curtis to Gum Springs and Project Area detailed on Esri World Imagery

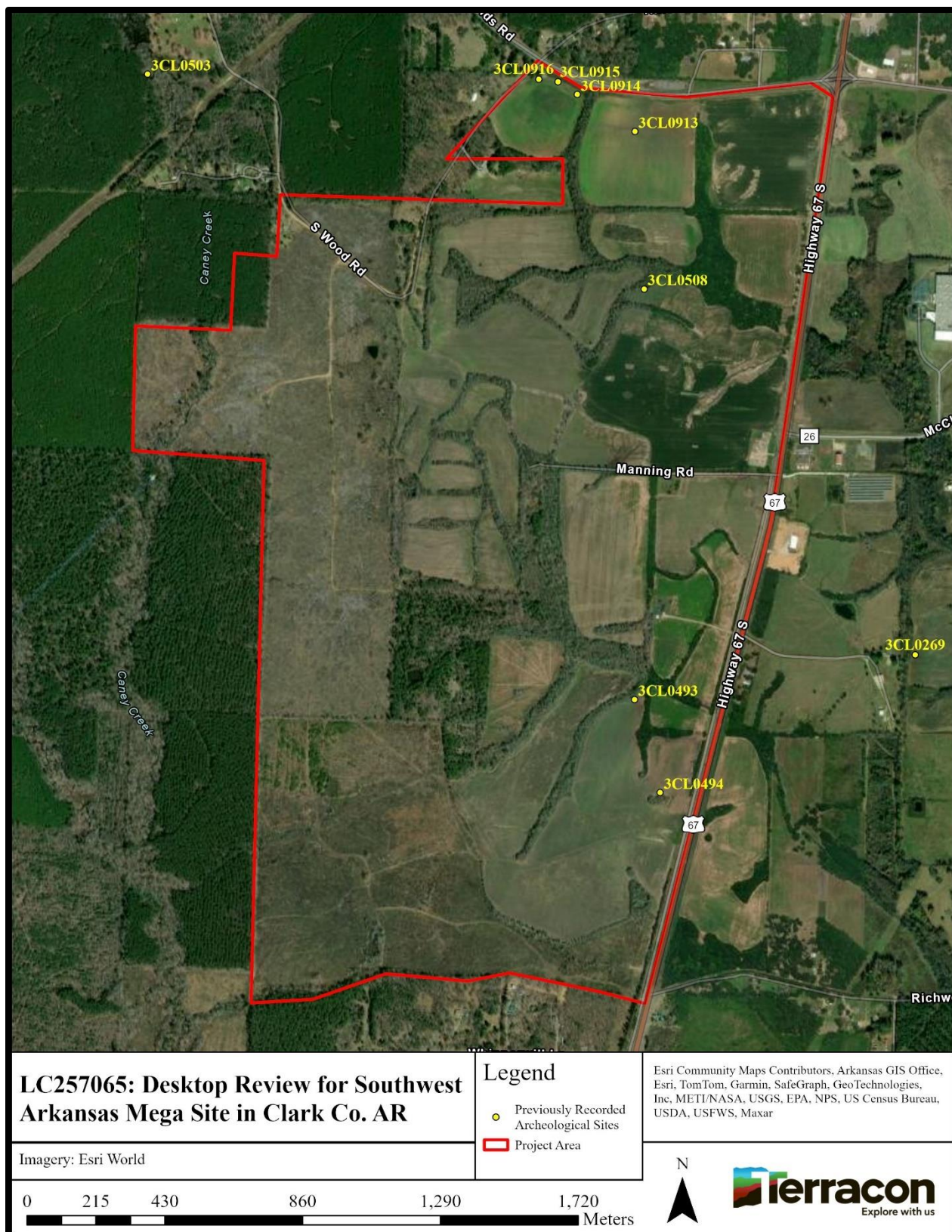


Figure 3. Previously Recorded Archeological Sites within Project Area detailed on Esri World Imagery

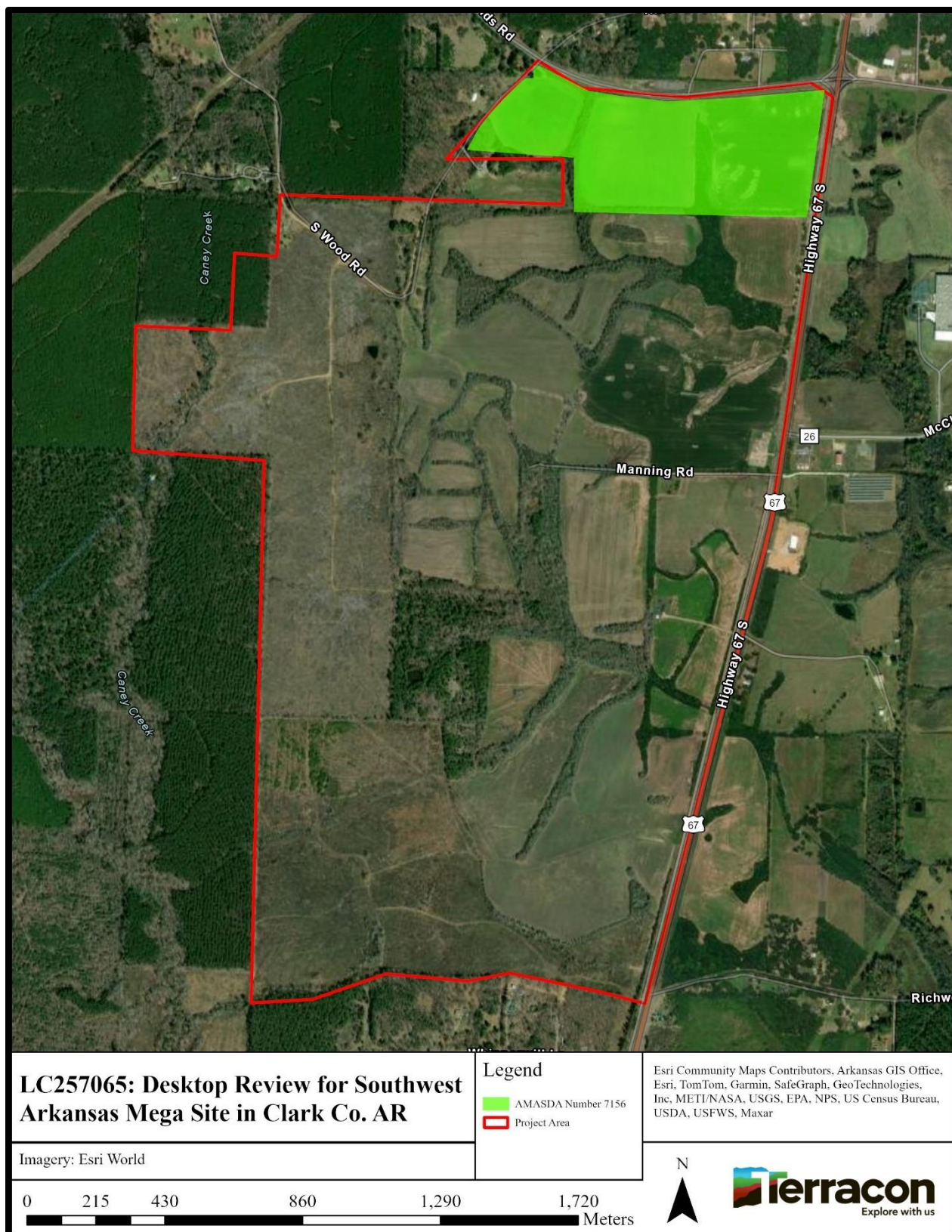


Figure 4. AMASDA Number 7156 and Project Area detailed on Esri World Imagery

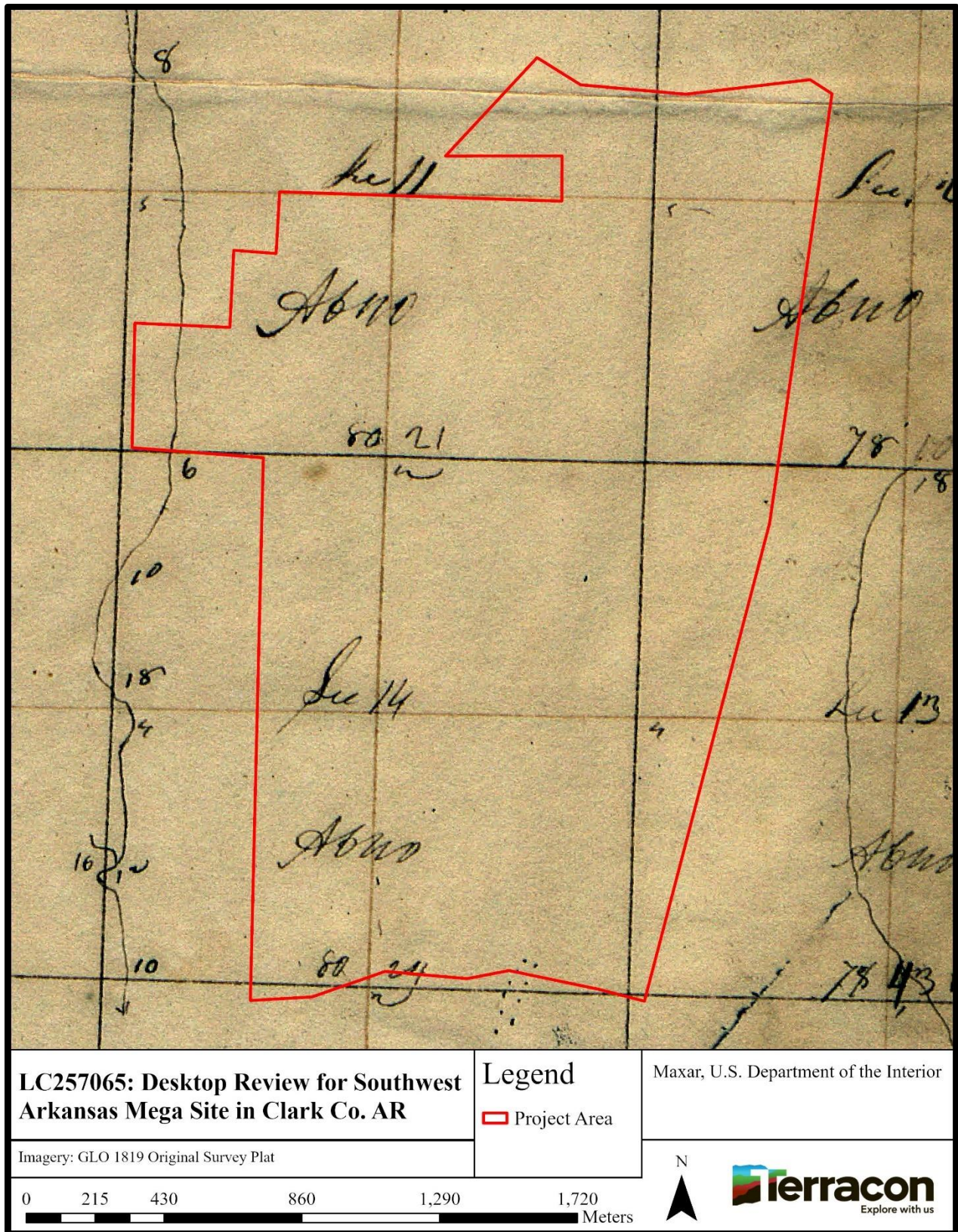


Figure 5. Project Area detailed on GLO 1819 Original Survey Plat (GLO 2025a)

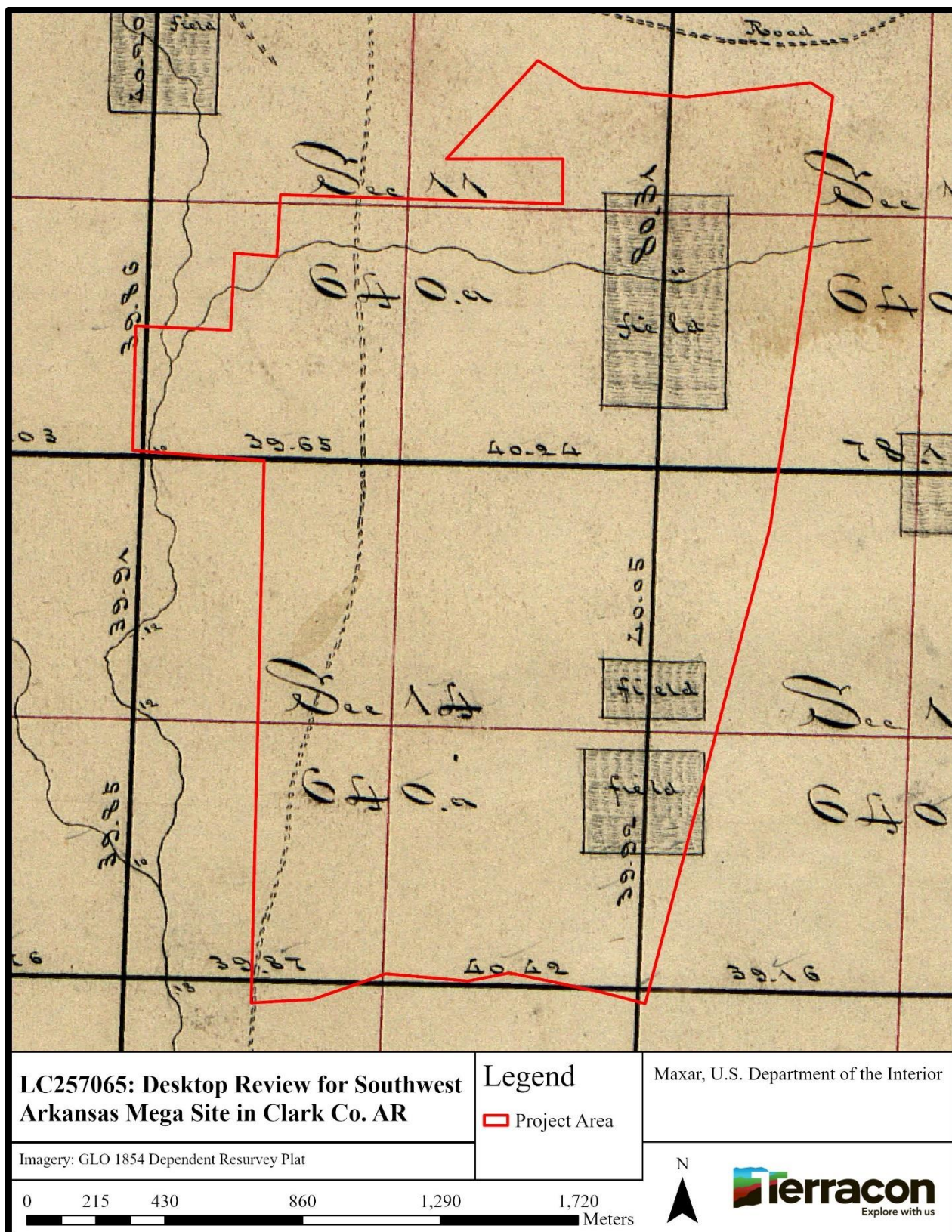


Figure 6. Project Area detailed on GLO 1854 Dependent Resurvey Plat (GLO 2025b)

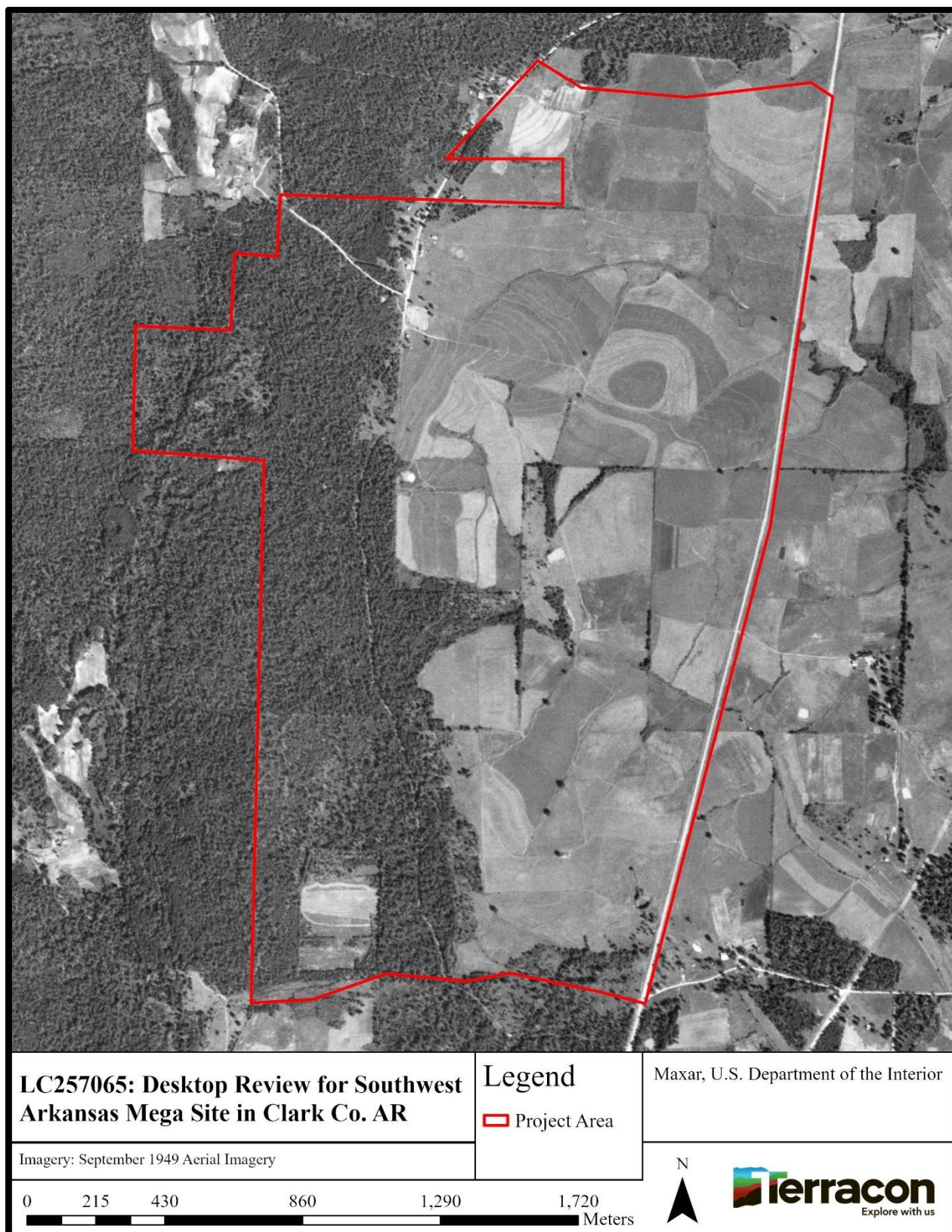


Figure 7. Project Area detailed on September 1949 Aerial Imagery (USGS 2025a)

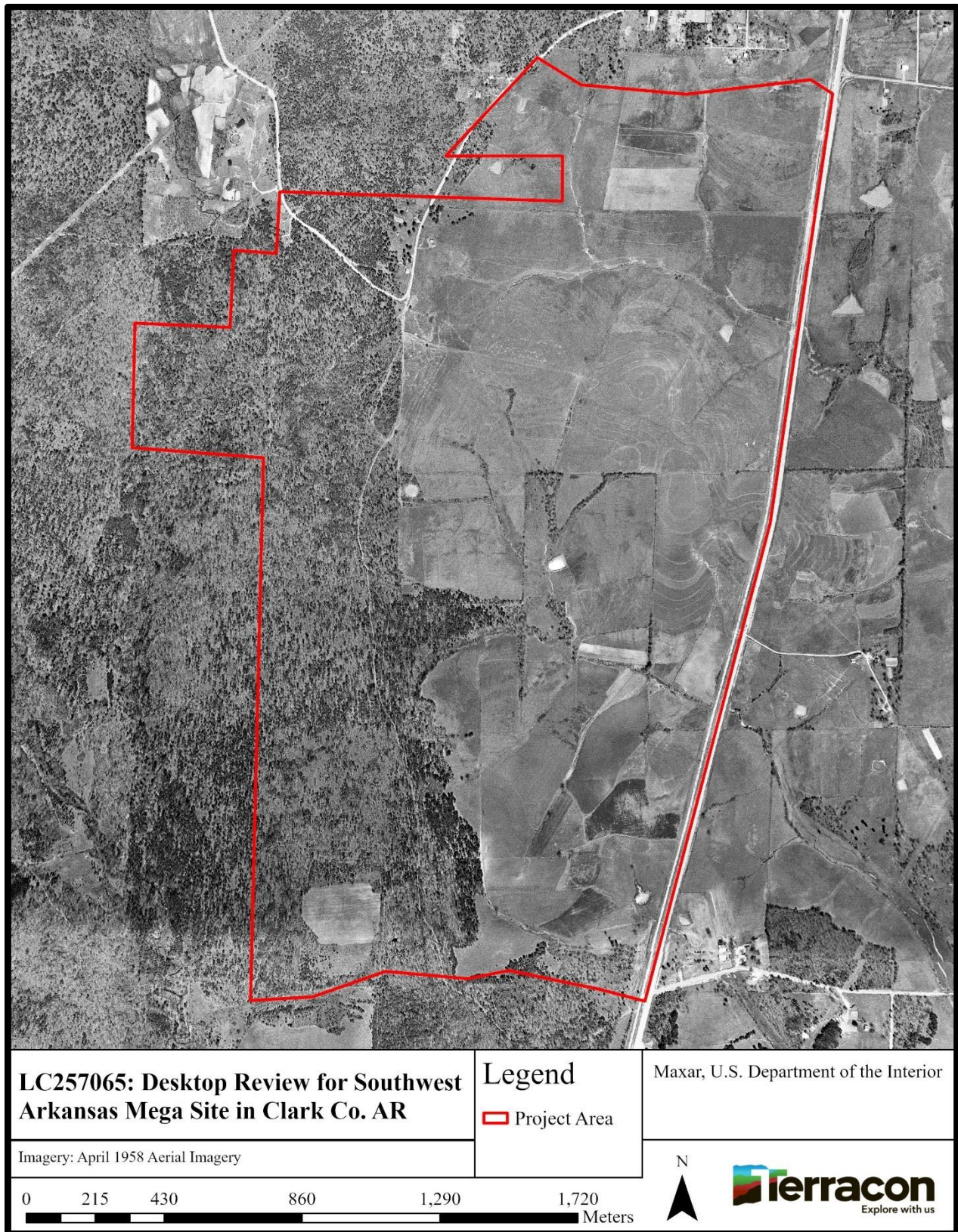


Figure 8. Project Area detailed on April 1958 Aerial Imagery (USGS 2025b)

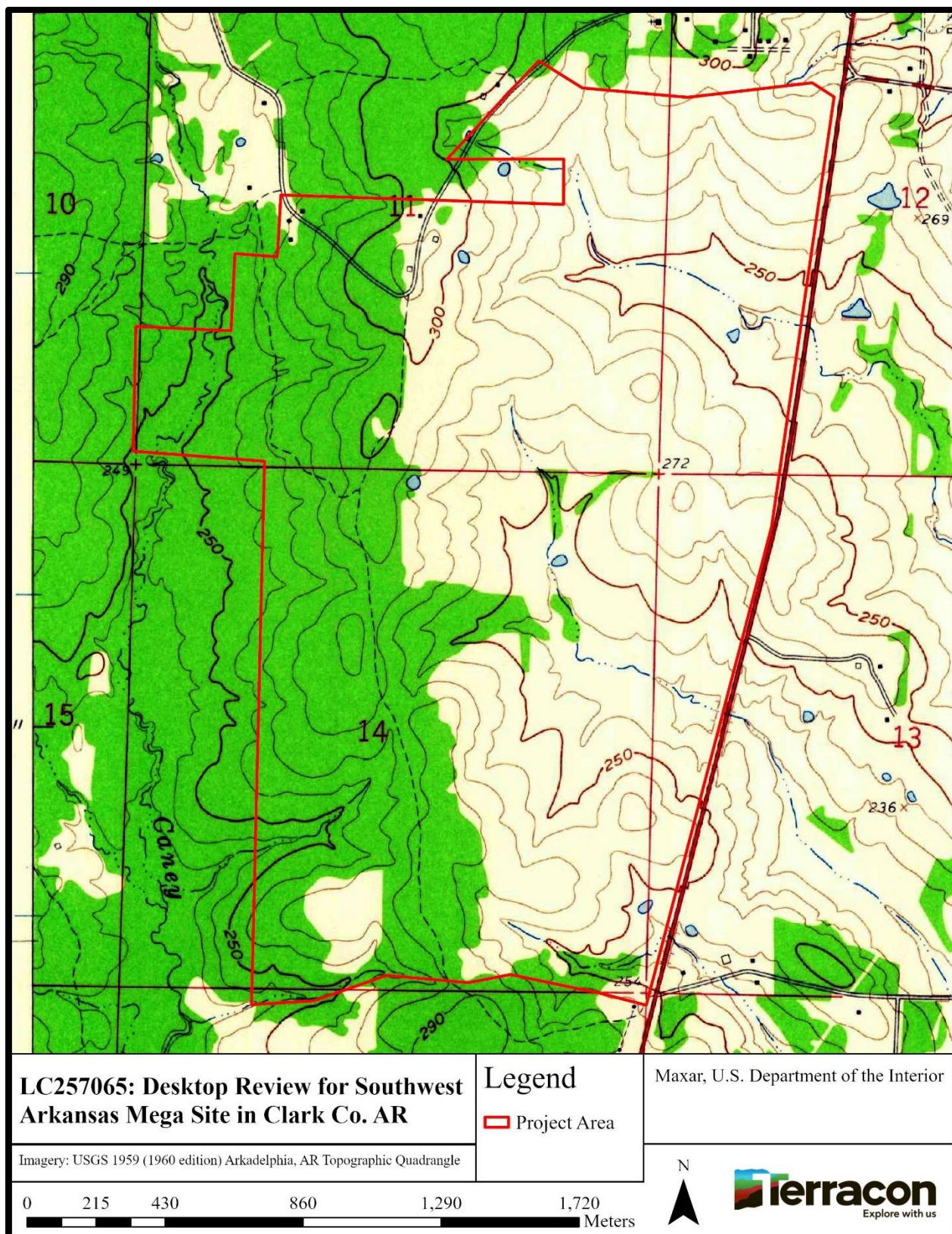


Figure 9. Project Area detailed on USGS 1959 (1960 edition) Arkadelphia, AR Topographic Quadrangle (USGS 2025c)

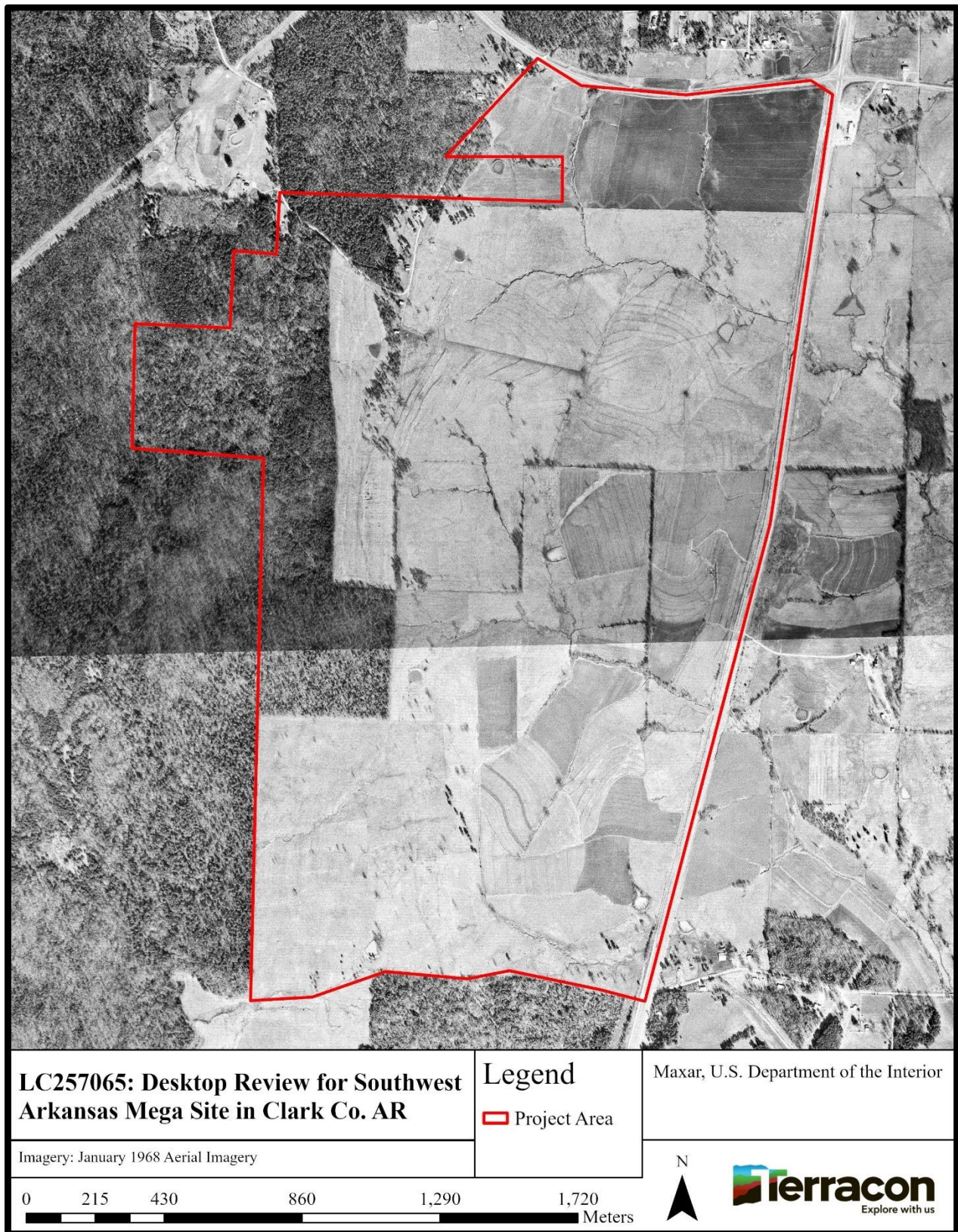


Figure 10. Project Area detailed on January 1968 Aerial Imagery (USGS 2025d)

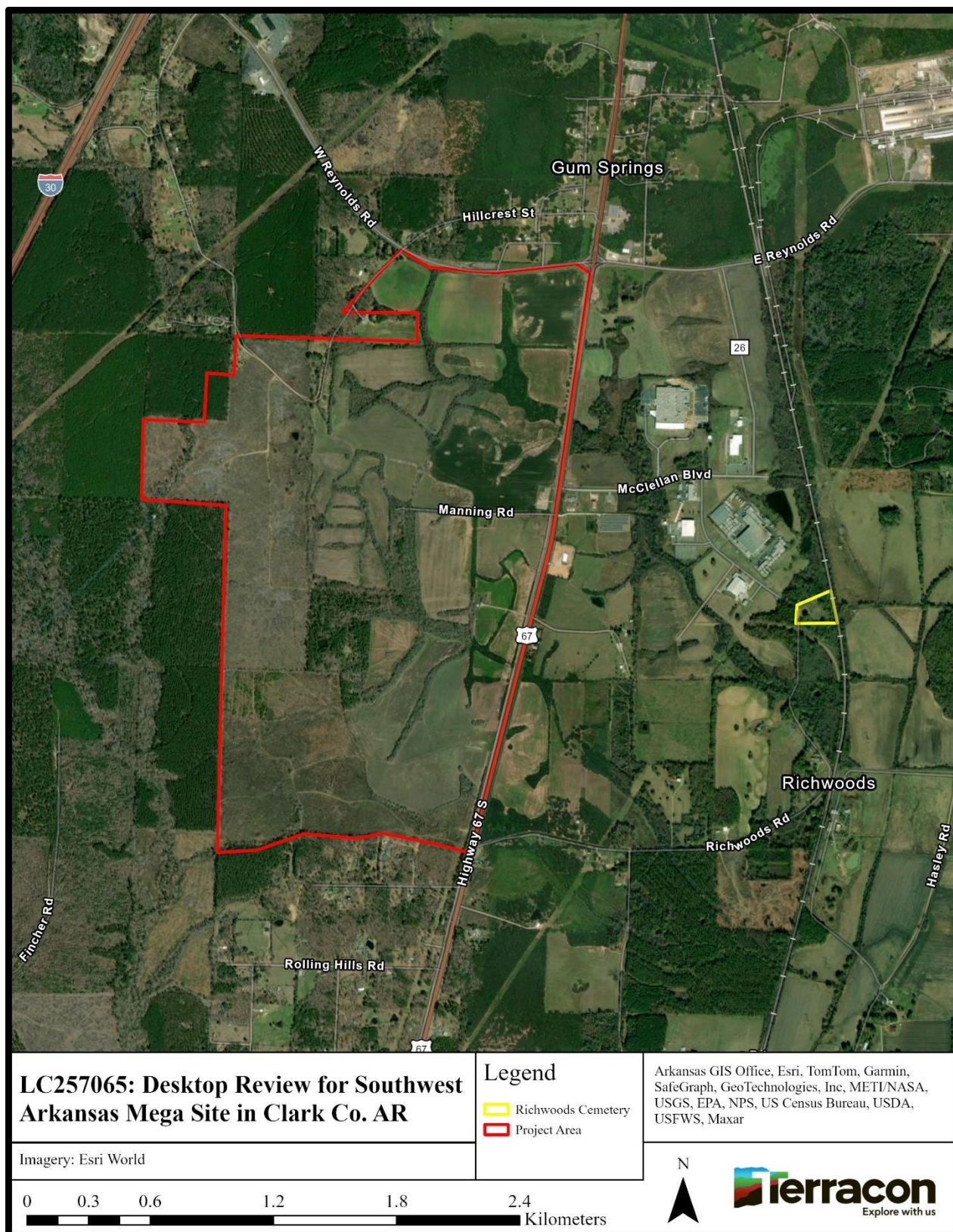


Figure 11. Richwoods Cemetery and Project Area detailed on Esri World Imagery (Find A Grave 2025)

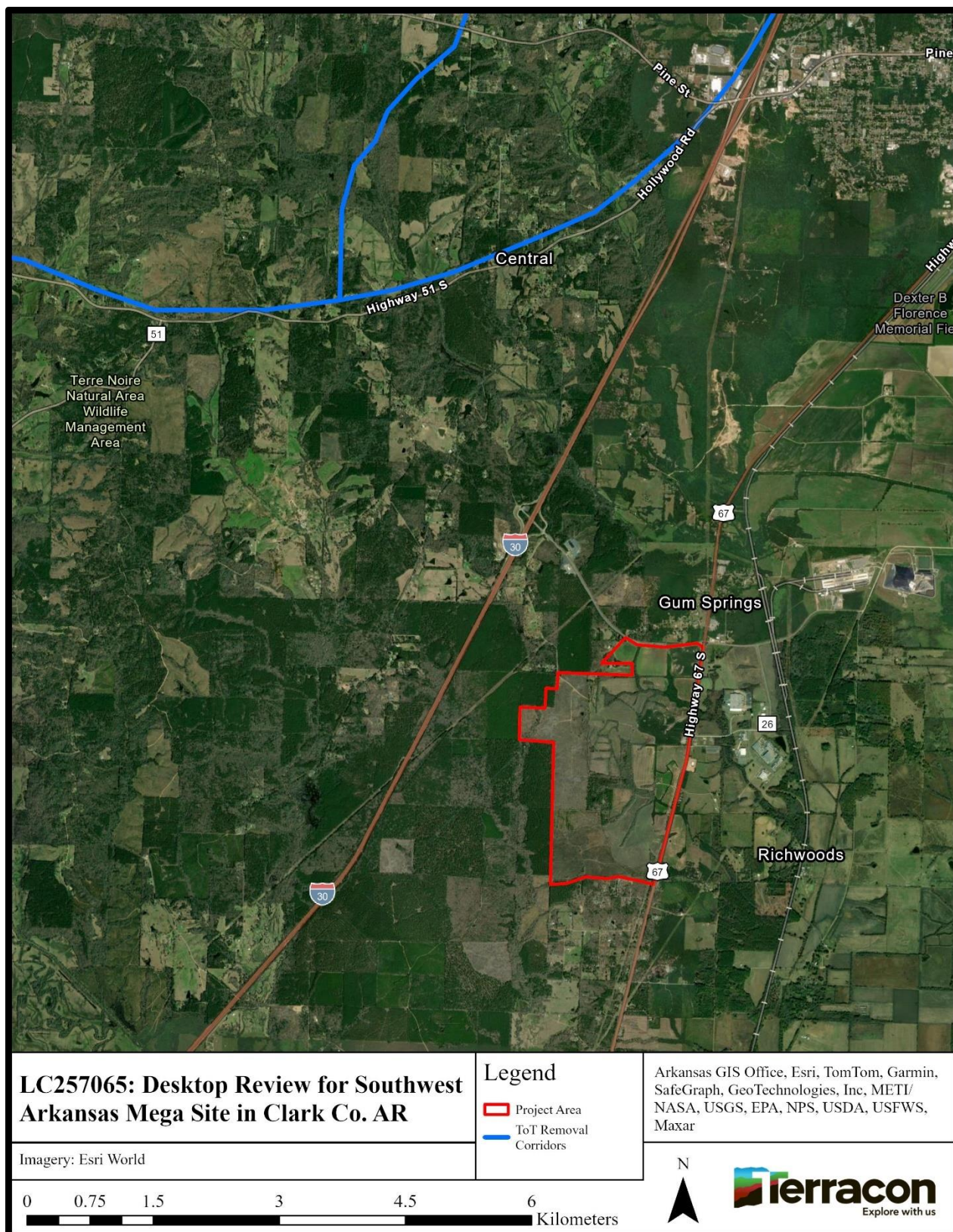


Figure 12. Trail of Tears National Historic Trail and Project Area detailed on Esri World Imagery (NPS 2024)

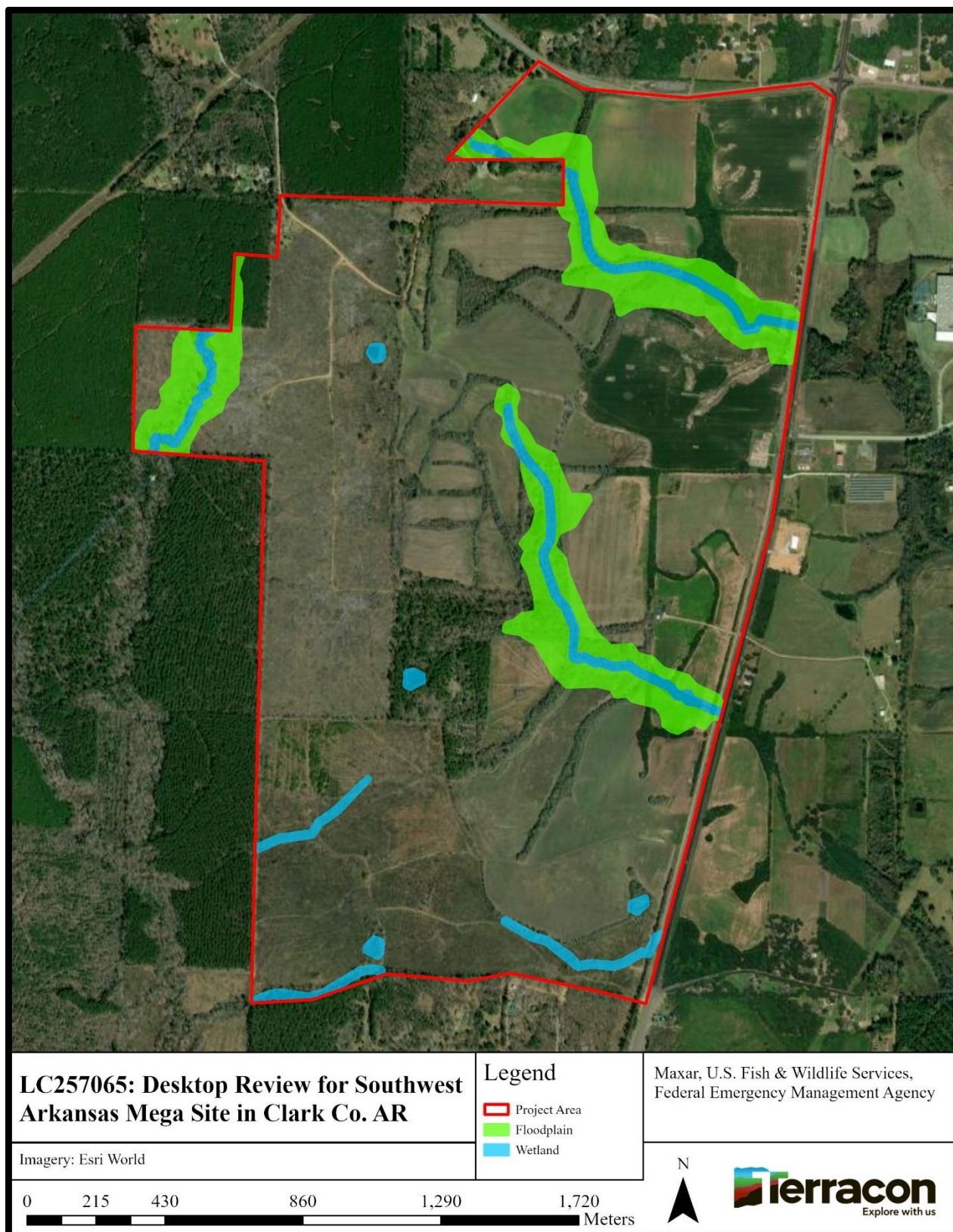


Figure 13. Wetlands and Floodplains within Project Area detailed on Esri World Imagery

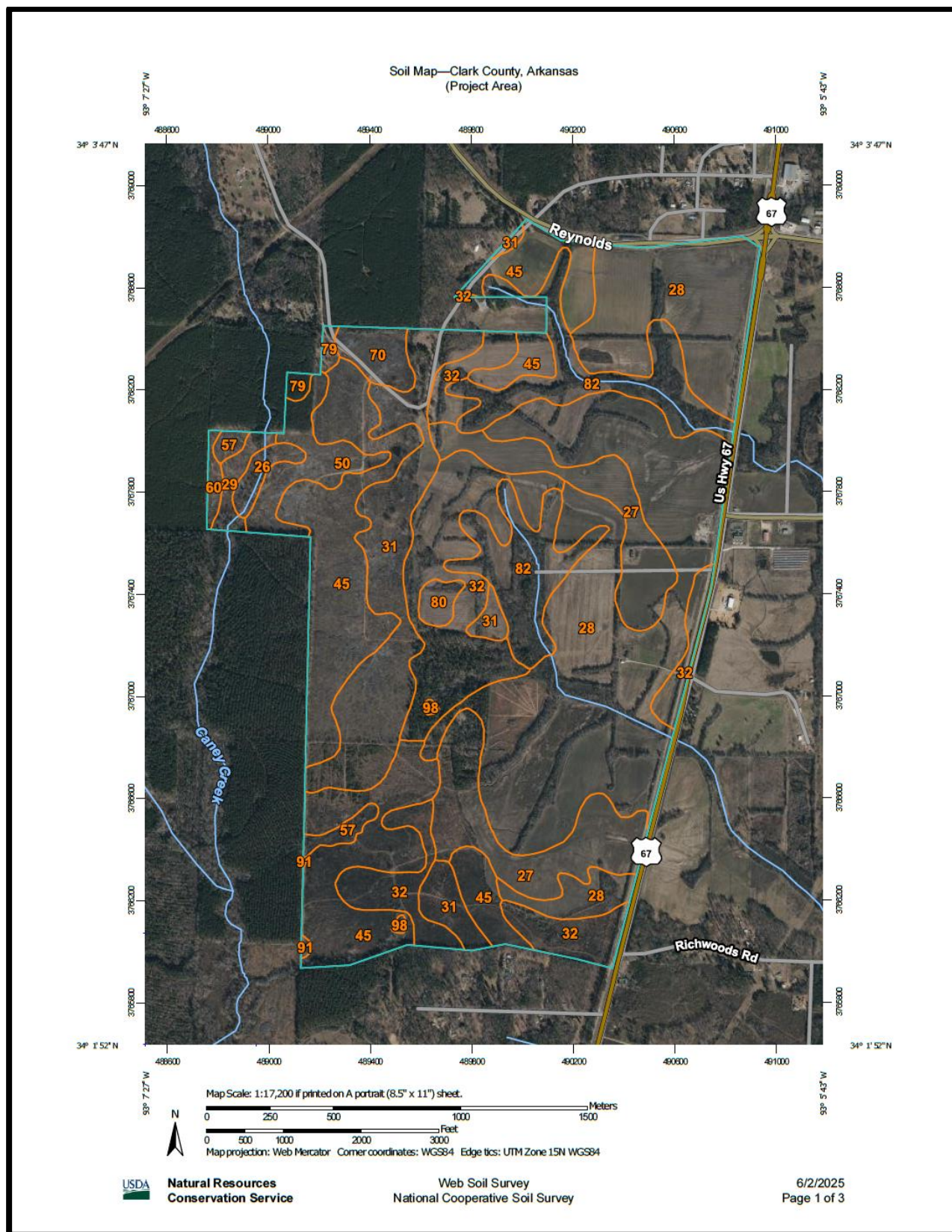


Figure 14. NRCS Soil Map detailing Project Area (outlined in blue) (NRCS 2025)

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
26	Harleston fine sandy loam, 1 to 3 percent slopes	7.7	0.7%
27	Houston clay, 1 to 3 percent slopes	98.3	9.4%
28	Houston clay, 3 to 8 percent slopes, eroded	338.7	32.3%
29	Iuka fine sandy loam, occasionally flooded	8.2	0.8%
31	Kipling silt loam, 0 to 2 percent slopes	105.5	10.1%
32	Kipling silty clay loam, 2 to 5 percent slopes	138.6	13.2%
45	Oktibbeha fine sandy loam, 3 to 8 percent slopes, eroded	192.0	18.3%
50	Ozan fine sandy loam, occasionally flooded	26.6	2.5%
57	Sacul fine sandy loam, 3 to 8 percent slopes	7.9	0.8%
60	Sacul gravelly fine sandy loam, 3 to 8 percent slopes	4.0	0.4%
70	Savannah fine sandy loam, 3 to 8 percent slopes	14.0	1.3%
79	Stough fine sandy loam, 0 to 2 percent slopes	4.8	0.5%
80	Sumter silty clay, 3 to 12 percent slopes, eroded	5.9	0.6%
82	Terouge silty clay, 1 to 3 percent slopes	93.0	8.9%
91	Wilcox silt loam, 3 to 8 percent slopes	0.7	0.1%
98	Water	1.3	0.1%
Totals for Area of Interest		1,047.3	100.0%

Figure 15. Map Unit Legend for NRCS Soil Map (NRCS 2025)

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Clark County, Arkansas

Map Unit: 26—Harleston fine sandy loam, 1 to 3 percent slopes

Component: Harleston (85%)

The Harleston component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on stream terraces on coastal plains. The parent material consists of sandy and loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F133BY013TX Terrace ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.



Figure 16. Map Unit Description (Brief, Generated), page one (NRCS 2025)

Component: Smithton (10%)

Generated brief soil descriptions are created for major soil components. The Smithton soil is a minor component.

Component: Aquults (5%)

Generated brief soil descriptions are created for major soil components. The Aquults soil is a minor component.

Map Unit: 27—Houston clay, 1 to 3 percent slopes**Component:** Houston (95%)

The Houston component makes up 95 percent of the map unit. Slopes are 1 to 3 percent. This component is on blackland prairie coastal plains. The parent material consists of clayey marl derived from chalk. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March. Organic matter content in the surface horizon is about 3 percent. This component is in the F135BY002AR Clayey Upland ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Aquerts (5%)

Generated brief soil descriptions are created for major soil components. The Aquerts soil is a minor component.

Map Unit: 28—Houston clay, 3 to 8 percent slopes, eroded**Component:** Houston (100%)

The Houston component makes up 100 percent of the map unit. Slopes are 3 to 8 percent. This component is on blackland prairie coastal plains. The parent material consists of clayey marl derived from chalk. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March. Organic matter content in the surface horizon is about 3 percent. This component is in the F135BY002AR Clayey Upland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit: 29—Iuka fine sandy loam, occasionally flooded

Figure 17. Map Unit Description (Brief, Generated), page two (NRCS 2025)

Component: luka (85%)

The luka component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on Coastal Plain flood plains. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 1 percent. This component is in the F133BY014TX Creek Bottomland ecological site. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Smithton (10%)

Generated brief soil descriptions are created for major soil components. The Smithton soil is a minor component.

Component: Aquents (5%)

Generated brief soil descriptions are created for major soil components. The Aquents soil is a minor component.

Map Unit: 31—Kipling silt loam, 0 to 2 percent slopes**Component:** Kipling (90%)

The Kipling component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on blackland prairie interfluvies. The parent material consists of cretaceous clayey marine deposits derived from chalk. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 14 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. This component is in the F135BY001AR Poorly Drained Clayey Upland ecological site. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

Component: Mayhew (5%)

Generated brief soil descriptions are created for major soil components. The Mayhew soil is a minor component.

Component: Aqualfs (5%)

Generated brief soil descriptions are created for major soil components. The Aqualfs soil is a minor component.

Figure 18. Map Unit Description (Brief, Generated), page three (NRCS 2025)

Map Unit: 32—Kipling silty clay loam, 2 to 5 percent slopes**Component:** Kipling (95%)

The Kipling component makes up 95 percent of the map unit. Slopes are 2 to 5 percent. This component is on blackland prairie interfluves. The parent material consists of clayey marine deposits derived from chalk. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 14 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. This component is in the F135BY001AR Poorly Drained Clayey Upland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Aqualfs (5%)

Generated brief soil descriptions are created for major soil components. The Aqualfs soil is a minor component.

Map Unit: 45—Oktibbeha fine sandy loam, 3 to 8 percent slopes, eroded**Component:** Oktibbeha (100%)

The Oktibbeha component makes up 100 percent of the map unit. Slopes are 3 to 8 percent. This component is on Blackland Prairie interfluves. The parent material consists of acid clayey marine deposits derived from chalk. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 50 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the F135BY001AR Poorly Drained Clayey Upland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit: 50—Ozan fine sandy loam, occasionally flooded**Component:** Ozan (90%)

Figure 19. Map Unit Description (Brief, Generated), page four (NRCS 2025)

The Ozan component makes up 90 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F133BY012TX Wet Terrace ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: luka (5%)

Generated brief soil descriptions are created for major soil components. The luka soil is a minor component.

Component: Aquents (5%)

Generated brief soil descriptions are created for major soil components. The Aquents soil is a minor component.

Map Unit: 57—Sacul fine sandy loam, 3 to 8 percent slopes

Component: Sacul (100%)

The Sacul component makes up 100 percent of the map unit. Slopes are 3 to 8 percent. This component is on coastal plain interfluvies, coastal plains. The parent material consists of loamy and clayey marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F133BY003TX Loamy Over Clayey Upland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Map Unit: 60—Sacul gravelly fine sandy loam, 3 to 8 percent slopes

Component: Sacul (100%)

Figure 20. Map Unit Description (Brief, Generated), page five (NRCS 2025)

The Sacul component makes up 100 percent of the map unit. Slopes are 3 to 8 percent. This component is on Coastal Plain interfluves. The parent material consists of acid marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F133BY003TX Loamy Over Clayey Upland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit: 70—Savannah fine sandy loam, 3 to 8 percent slopes

Component: Savannah (95%)

The Savannah component makes up 95 percent of the map unit. Slopes are 3 to 8 percent. This component is on upland interfluves, coastal plains. The parent material consists of loamy marine deposits. Depth to a root restrictive layer, fragipan, is 16 to 32 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F133BY005TX Loamy Upland ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Amy (5%)

Generated brief soil descriptions are created for major soil components. The Amy soil is a minor component.

Map Unit: 79—Stough fine sandy loam, 0 to 2 percent slopes

Component: Stough (85%)

The Stough component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on stream terrace and upland flats coastal plains. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. This component is in the F133BY017TX Loamy Bottomland ecological site. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Figure 21. Map Unit Description (Brief, Generated), page six (NRCS 2025)

Component: Aquults (5%)

Generated brief soil descriptions are created for major soil components. The Aquults soil is a minor component.

Component: Smithton (5%)

Generated brief soil descriptions are created for major soil components. The Smithton soil is a minor component.

Component: Amy (5%)

Generated brief soil descriptions are created for major soil components. The Amy soil is a minor component.

Map Unit: 80—Sumter silty clay, 3 to 12 percent slopes, eroded**Component:** Sumter (100%)

The Sumter component makes up 100 percent of the map unit. Slopes are 3 to 12 percent. This component is on Blackland Prairie interfluvies. The parent material consists of clayey residuum weathered from chalk. Depth to a root restrictive layer, bedrock, paralithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the F135BY004AR Loamy Upland ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Map Unit: 82—Terouge silty clay, 1 to 3 percent slopes**Component:** Terouge (85%)

The Terouge component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on Blackland Prairie fluvial terraces. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is very high. This soil is rarely flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. This component is in the F135BY014AR Poorly Drained Flood Plain ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Aquents (5%)

Figure 22. Map Unit Description (Brief, Generated), page seven (NRCS 2025)

Generated brief soil descriptions are created for major soil components. The Aquepts soil is a minor component.

Component: Tuscumbia (5%)

Generated brief soil descriptions are created for major soil components. The Tuscumbia soil is a minor component.

Component: Una (5%)

Generated brief soil descriptions are created for major soil components. The Una soil is a minor component.

Map Unit: 91—Wilcox silt loam, 3 to 8 percent slopes

Component: Wilcox (100%)

The Wilcox component makes up 100 percent of the map unit. Slopes are 3 to 8 percent. This component is on side slopes interfluvies. The parent material consists of residuum weathered from clayey shale. Depth to a root restrictive layer, bedrock, densic, is 40 to 72 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. This component is in the F133BY004TX Loamy Claypan Upland ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Map Unit: 98—Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Data Source Information

Soil Survey Area: Clark County, Arkansas
Survey Area Data: Version 6, Sep 9, 2024

Figure 23. Map Unit Description (Brief, Generated), page eight (NRCS 2025)



Figure 24. Project Area detailed on 2006 Five Meter Resolution Hillshade Model (raster)

Physical Settings: Wetlands and Geomorphology

Site Summary

Lat/Long 34.0472, -93.1100

Project Name LC257065 Desktop Review for SW AR

Site Name CC Mega Site KML

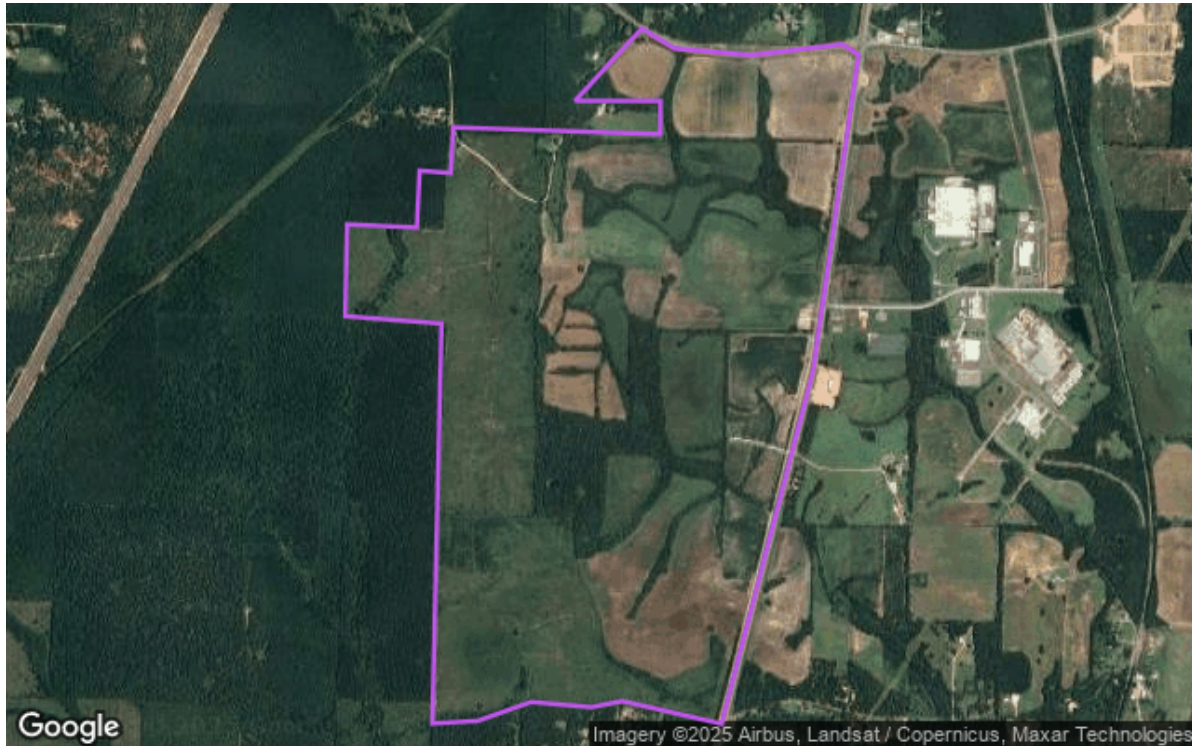
County, State Clark, Arkansas

Report Date 6/4/2025

Impact Area 4235061.20 sq meters



Site Overview Map



The extent of the parcel may exceed current rendering limits. Not all features may appear on the map(s).

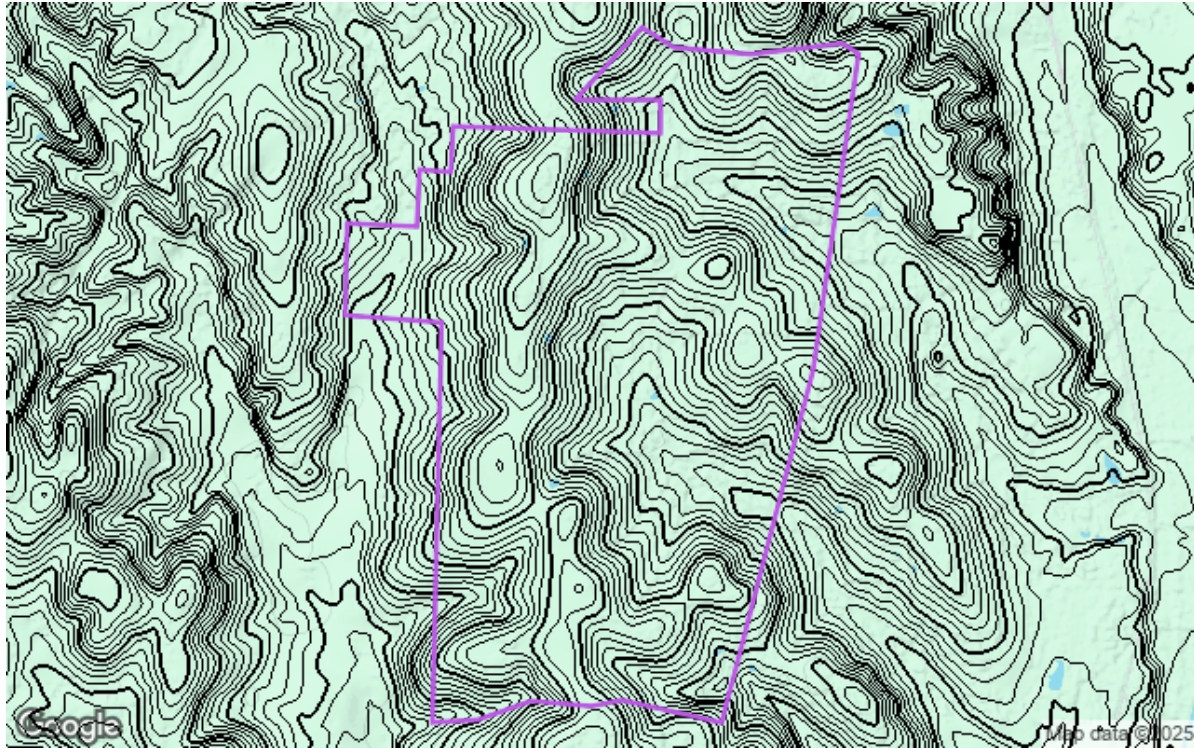
DISCLAIMER: The information contained in this report is a compilation of data from a variety of publicly available sources that were not created by Pivvot. Pivvot makes no claims, promises, or guarantees about the accuracy, completeness, or adequacy of the contents of this report and expressly disclaims liability for errors and omissions in the contents of this report.

Pivvot Ground dataset(s) are a presentation summary of pre-existing data from proprietary software of Terracon/Pivvot and should not be viewed as engineering or geological analysis or conclusions. Estimates are based on a combination of publicly available information not independently verified by Terracon and proprietary Terracon/Pivvot data. As a result, accuracy of the information utilized may vary across selected locations, particularly with regard to public datasets. The data should therefore be treated as preliminary information based on assumed conditions, and should never be used for design or final decision-making purposes. The data does not contemplate or account for specific uses for any given location and therefore may not be appropriate for the intended application of the user. Confirmation of this information provided by a professional engineer or geologist, is essential for design, planning, and final decision-making.

Report Contents

Layer Name / Feature Type	Occurs in Boundaries	Subtypes
Percent Slope	✔ Occurrence of slope with aspect across the subject property; derived from USGS 10m DEM	N/A
NHD Flowline	✔ NHD Flowline within 1.609 kilometers	Stream River, Artificial Path
NHD Waterbody	✔ NHD Waterbody within 1.609 kilometers	Lake/Pond
NWI Wetland	✔ NWI Wetland within 1.609 kilometers	Freshwater pond, Riverine, Freshwater - Forested and Shrub wetland, Freshwater Emergent wetland
Depth to Bedrock	✔ Occurrence of Depth to Bedrock within subject property	4 to 5 feet, 2 to 3 feet
Geologic Units	✔ Occurrence of Geologic Units within subject property	Sedimentary Rock
gSSURGO pH	✔ Occurrence of gSSURGO pH within subject property	Slightly alkaline (ph 7.4 - 7.8), Moderately acid (ph 5.6 - 6.0), Neutral (ph 6.6 - 7.3), Strongly acid (ph 5.1 - 5.5), Very strongly acid (ph 4.5 - 5.0), Moderately alkaline (ph 7.9 - 8.4), Data Not Available
gSSURGO Prime Farmland	✔ Occurrence of gSSURGO Prime Farmland within subject property	Prime Farmland, Prime Farmland with Caveats, Prime Farmland of Statewide Importance
gSSURGO Hydric Soils	✔ Occurrence of gSSURGO Hydric Soils within subject property	5, 10, 15, 95
gSSURGO Flood Frequency	✔ Occurrence of gSSURGO Flood Frequency within subject property	None, Rare, Occasional
gSSURGO Depth To Water	✔ Occurrence of gSSURGO Depth To Water within subject property	5-6 feet, 1-2 feet, 2-3 feet, 3-4 feet

Percent Slope



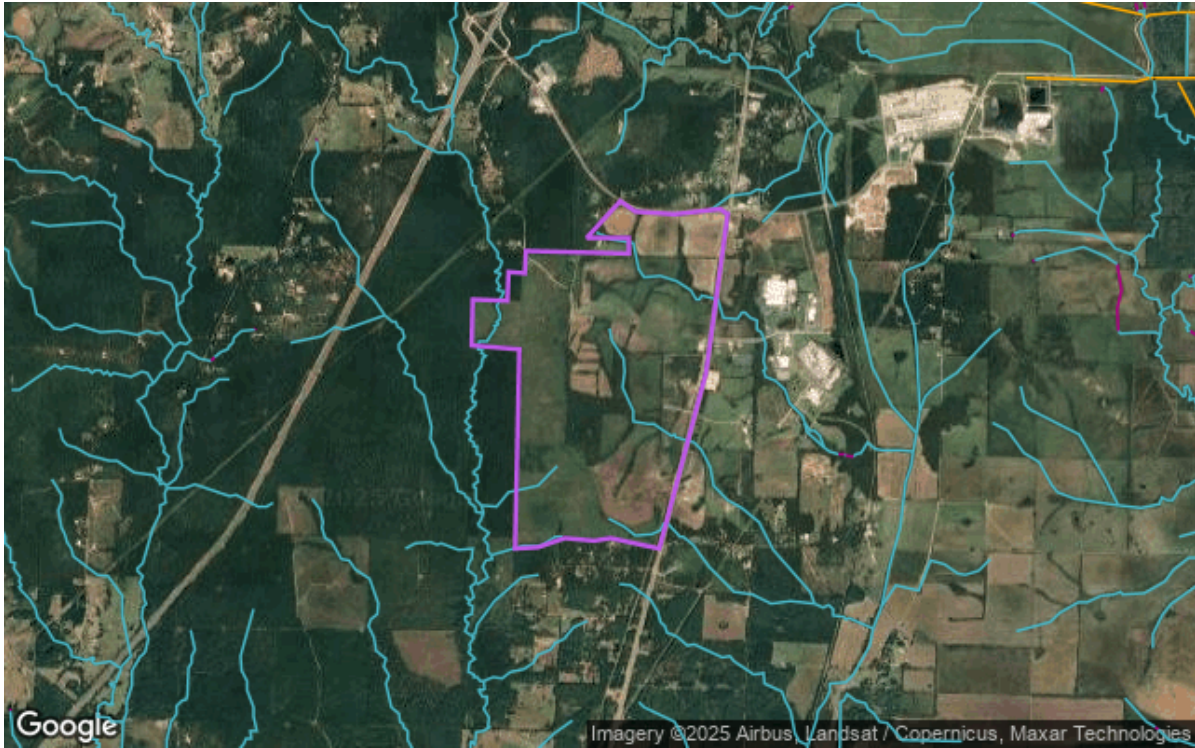
Map may not show Percent Slope based on proximity to subject parcel.

Site Min Elevation: 67.95 m
Site Max Elevation: 94.80 m

Description	Aspect	Area (Total)	% Coverage
0-5%	N	552502.85 sq meters	13.05%
0-5%	E	920513.88 sq meters	21.74%
0-5%	S	1180898.96 sq meters	27.88%
0-5%	W	801562.45 sq meters	18.93%
5-10%	N	248131.72 sq meters	5.86%
5-10%	E	146527.66 sq meters	3.46%
5-10%	S	220384.32 sq meters	5.20%
5-10%	W	118744.64 sq meters	2.80%
10-15%	N	8570.42 sq meters	0.20%
10-15%	S	3505.51 sq meters	0.08%
10-15%	E	1576.87 sq meters	0.04%

Description	Aspect	Area (Total)	% Coverage
10-15%	W	1390.81 sq meters	0.03%
15-20%	N	175.50 sq meters	0.00%
15-20%	E	164.24 sq meters	0.00%
15-20%	S	541.98 sq meters	0.01%
20-25%	S	152.08 sq meters	0.00%

NHD Flowline



Map may not show NHD Flowline based on proximity to subject parcel.

Symbol	Name	Description	Feature Name	Agency	Publish Date	Dist to Site
/		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.00 kilometers
/		Hydrographic Category intermittent	STREAM/RIVER	United States	2024-01-30	0.00 kilometers

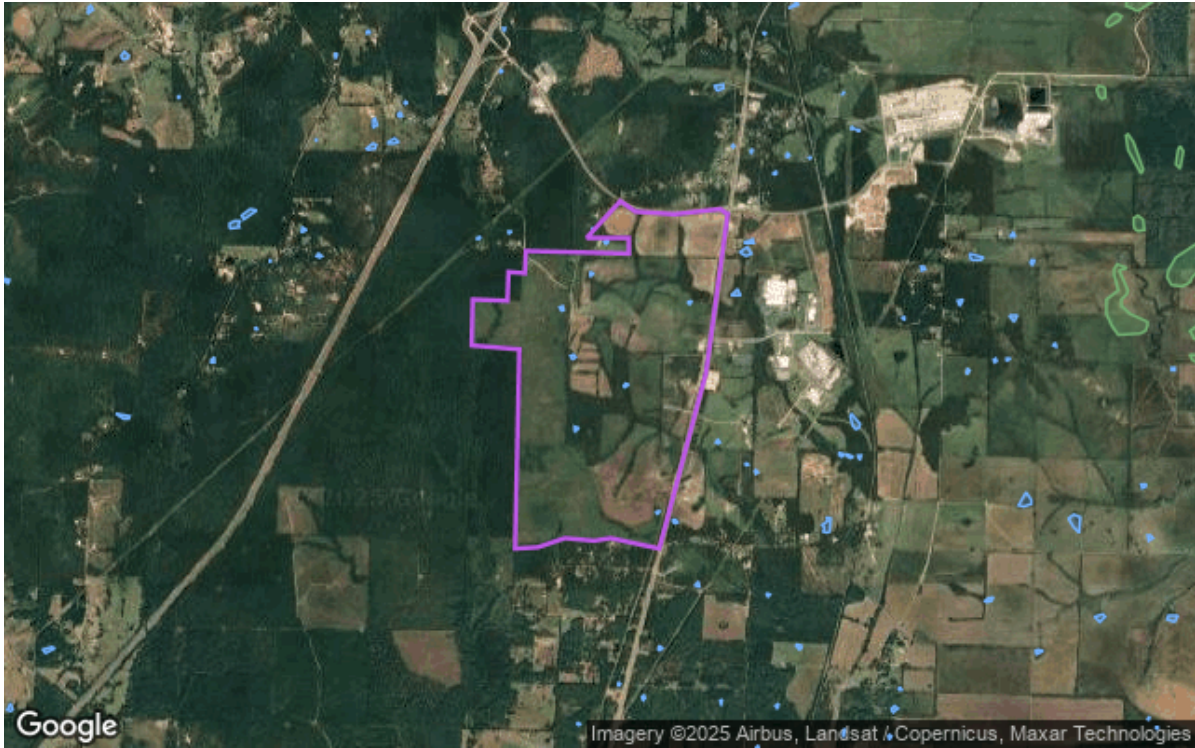
Symbol	Name	Description	Feature Name	Agency	Publish Date	Dist to Site
				Geological Survey		
	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.21 kilometers
	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.21 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.23 kilometers
	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.28 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.28 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.29 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.36 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.36 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.41 kilometers
	Caney Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	0.44 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.57 kilometers
	Caney Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	0.59 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.68 kilometers

Symbol	Name	Description	Feature Name	Agency	Publish Date	Dist to Site
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.75 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.75 kilometers
	Caney Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	0.82 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.87 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.93 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	0.93 kilometers
	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.05 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.05 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.08 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.11 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.12 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.14 kilometers
	Caney Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	1.15 kilometers
	Deceiper Creek	Hydrographic Category perennial	STREAM/RIVER	United States	2024-01-30	1.22 kilometers

Symbol	Name	Description	Feature Name	Agency	Publish Date	Dist to Site
				Geological Survey		
	Deceiper Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	1.23 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.25 kilometers
		feature type only: no attributes	ARTIFICIAL PATH	United States Geological Survey	2024-01-30	1.27 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.31 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.32 kilometers
		feature type only: no attributes	ARTIFICIAL PATH	United States Geological Survey	2024-01-30	1.33 kilometers
	Deceiper Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	1.34 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.38 kilometers
	Caney Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.38 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.40 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.40 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.47 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.49 kilometers

Symbol	Name	Description	Feature Name	Agency	Publish Date	Dist to Site
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.51 kilometers
	Waggle Creek	Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.55 kilometers
		Hydrographic Category intermittent	STREAM/RIVER	United States Geological Survey	2024-01-30	1.59 kilometers
	Deceiper Creek	Hydrographic Category perennial	STREAM/RIVER	United States Geological Survey	2024-01-30	1.59 kilometers

NHD Waterbody



Map may not show NHD Waterbody based on proximity to subject parcel.

Symbol	Feature Name	Description	Name	Agency	Publish Date	Dist to Site
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States	2024-01-30	0.00 kilometers

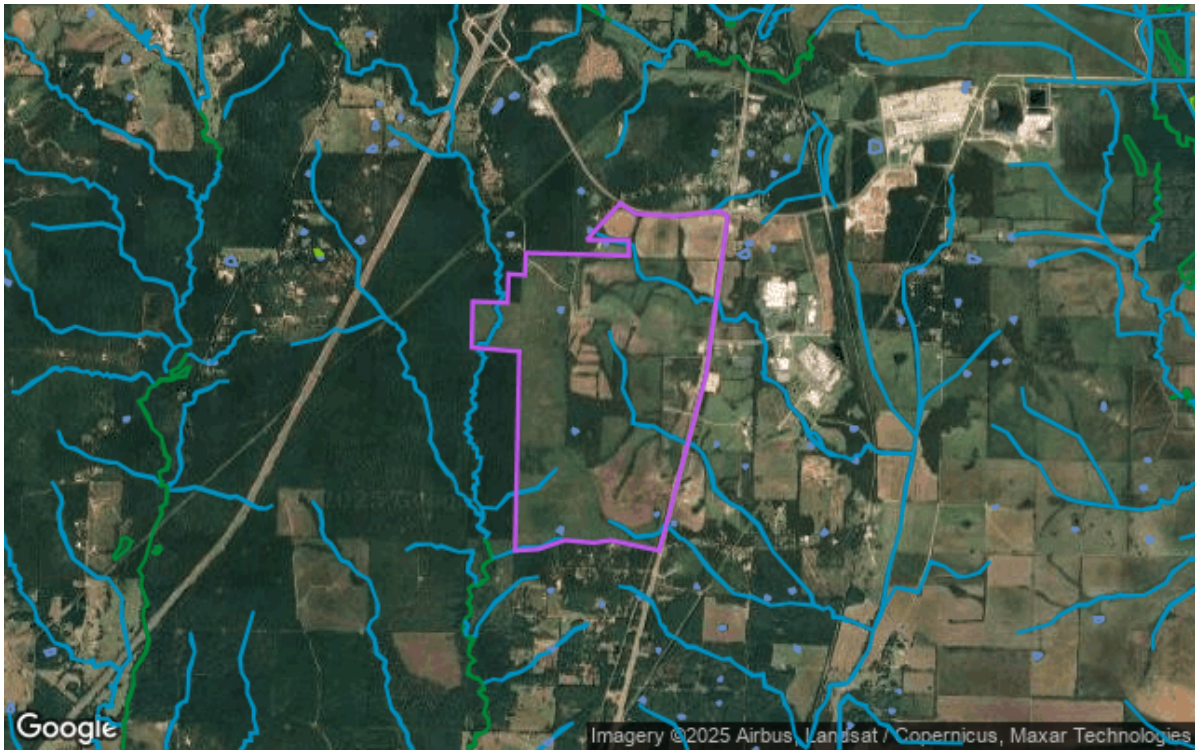
Symbol	Feature Name	Description	Name	Agency	Publish Date	Dist to Site
				Geological Survey		
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.00 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.02 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.05 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.11 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.14 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.18 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.20 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.24 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.37 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.42 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.51 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.52 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.54 kilometers

Symbol	Feature Name	Description	Name	Agency	Publish Date	Dist to Site
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.54 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.61 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.69 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.81 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.83 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.99 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	0.99 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.18 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.25 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.27 kilometers
	LAKE/POND	Hydrographic Category intermittent		United States Geological Survey	2024-01-30	1.27 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.29 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.29 kilometers
	LAKE/POND	Hydrographic Category intermittent		United States	2024-01-30	1.30 kilometers

Symbol	Feature Name	Description	Name	Agency	Publish Date	Dist to Site
				Geological Survey		
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.33 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.33 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.38 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.40 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.42 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.42 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.43 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.48 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.52 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.52 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.52 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.52 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.55 kilometers

Symbol	Feature Name	Description	Name	Agency	Publish Date	Dist to Site
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.59 kilometers
	LAKE/POND	Hydrographic Category perennial		United States Geological Survey	2024-01-30	1.60 kilometers

NWI Wetland



Map may not show NWI Wetland based on proximity to subject parcel.

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Riverine	R4SBC	U.S. Fish &	2024-11-07	0.00 kilometers

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
			Wildlife Services		
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.00 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.01 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.04 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.14 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.17 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.18 kilometers
	Freshwater Forested/Shrub Wetland	PFO1A	U.S. Fish & Wildlife Services	2024-11-07	0.20 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.23 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.23 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.29 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.35 kilometers

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.35 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.36 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.40 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.41 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.41 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.42 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.47 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.51 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.51 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.51 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.54 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.68 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.69 kilometers
	Riverine	R5UBH	U.S. Fish &	2024-11-07	0.72 kilometers

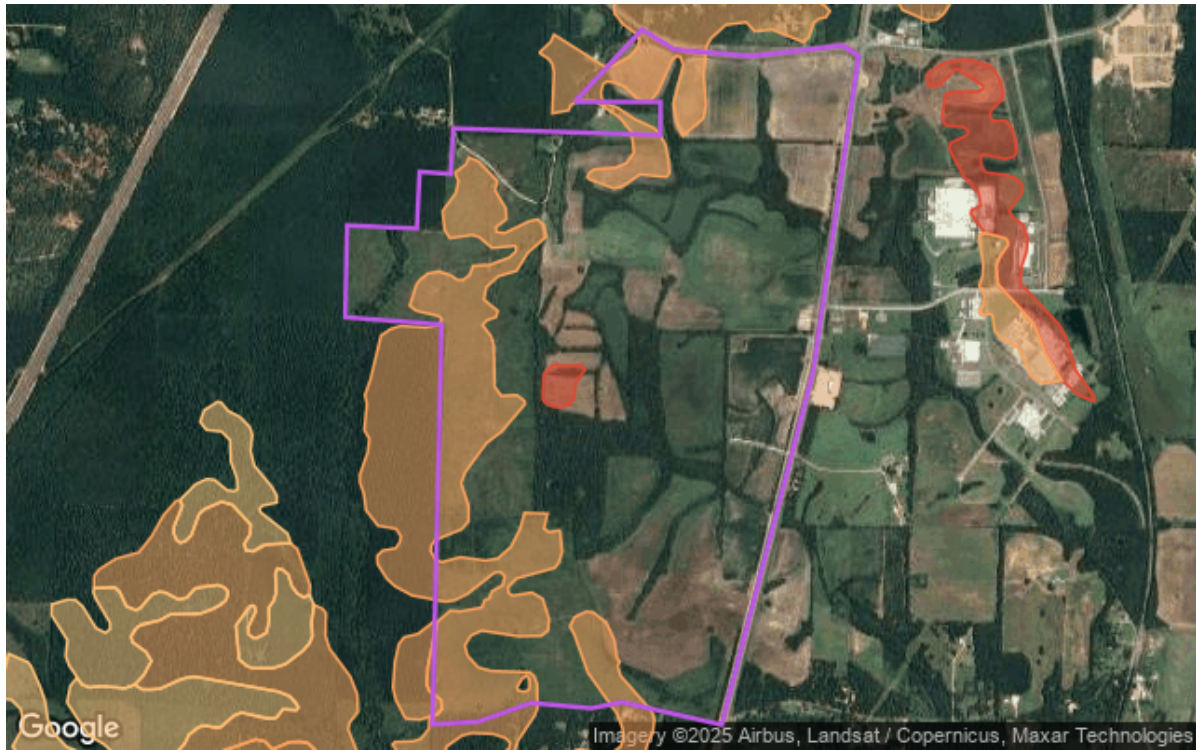
Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
			Wildlife Services		
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.82 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.82 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.84 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	0.86 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	0.97 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.00 kilometers
	Freshwater Pond	PUBHx	U.S. Fish & Wildlife Services	2024-11-07	1.05 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.07 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.15 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.18 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.21 kilometers
	Freshwater Forested/Shrub Wetland	PFO1A	U.S. Fish & Wildlife Services	2024-11-07	1.22 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.24 kilometers

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.25 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.25 kilometers
	Riverine	R5UBH	U.S. Fish & Wildlife Services	2024-11-07	1.27 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.29 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.30 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.31 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.32 kilometers
	Freshwater Pond	PUBHx	U.S. Fish & Wildlife Services	2024-11-07	1.33 kilometers
	Freshwater Pond	PUBHx	U.S. Fish & Wildlife Services	2024-11-07	1.33 kilometers
	Riverine	R5UBH	U.S. Fish & Wildlife Services	2024-11-07	1.33 kilometers
	Riverine	R2UBH	U.S. Fish & Wildlife Services	2024-11-07	1.33 kilometers
	Freshwater Emergent Wetland	PEM1Ch	U.S. Fish & Wildlife Services	2024-11-07	1.34 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.37 kilometers
	Riverine	R4SBC	U.S. Fish &	2024-11-07	1.40 kilometers

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
			Wildlife Services		
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.40 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.40 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.41 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.42 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.46 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.49 kilometers
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.50 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.52 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.52 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.54 kilometers
	Freshwater Forested/Shrub Wetland	PFO1A	U.S. Fish & Wildlife Services	2024-11-07	1.54 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.57 kilometers
	Freshwater Forested/Shrub Wetland	PFO1C	U.S. Fish & Wildlife Services	2024-11-07	1.57 kilometers

Symbol	NWI Description	NWI Type	Agency	Publish Date	Dist to Site
	Riverine	R4SBC	U.S. Fish & Wildlife Services	2024-11-07	1.59 kilometers
	Freshwater Pond	PUBHh	U.S. Fish & Wildlife Services	2024-11-07	1.60 kilometers

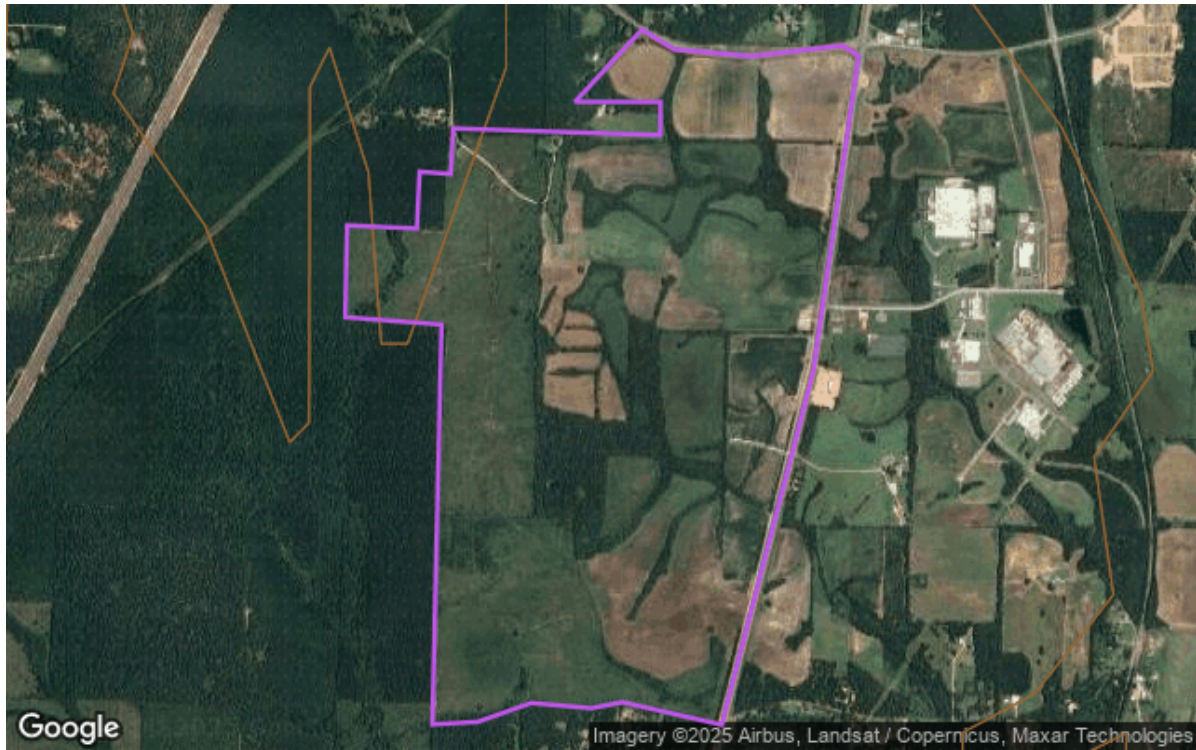
Depth to Bedrock



Map may not show Depth to Bedrock based on proximity to subject parcel.

Symbol	Dominant Condition Bedrock Depth (ft)	Minimum Bedrock Depth (ft)	NRCS gSSURGO Publish Date	% Coverage
■	4.0682416	4.07	2024-10-23	18.34%
■	2.5918636	2.59	2024-10-23	0.57%
■	4.9868768	4.99	2024-10-23	0.07%

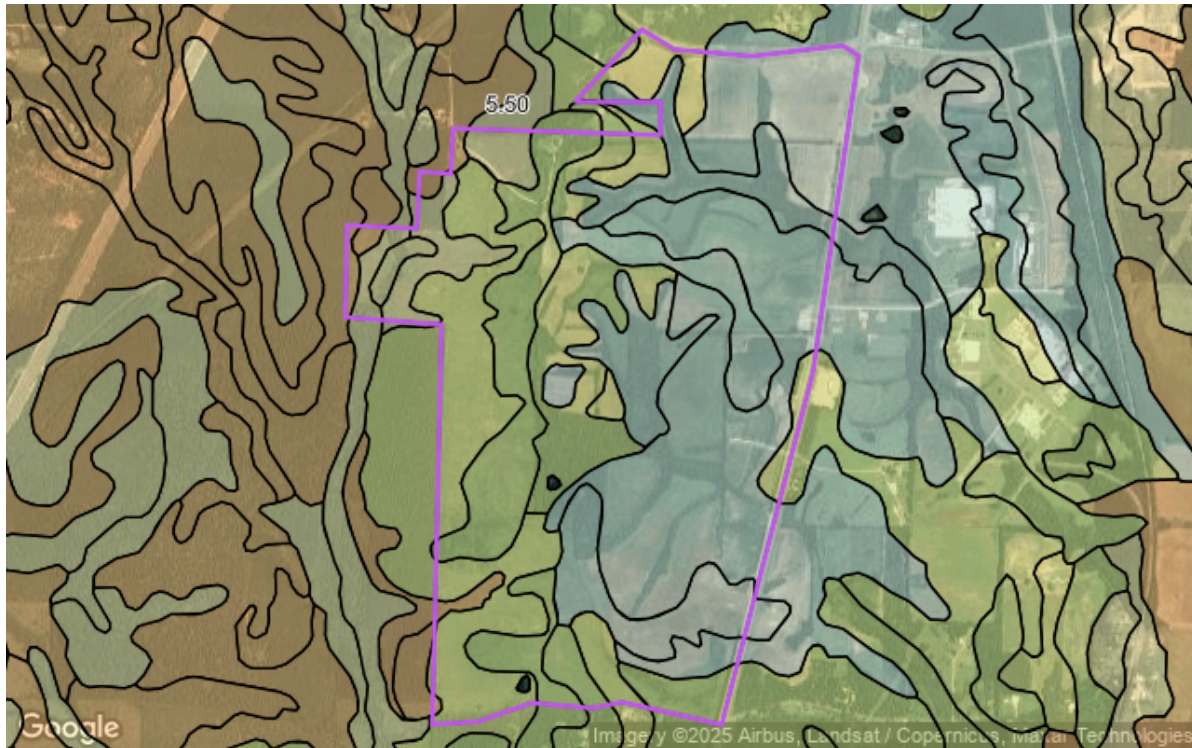
Geologic Units



Map may not show Geologic Units based on proximity to subject parcel.

Symbol	Unit Name	Major Lithology 1	Major Lithology 2	Minor Lithology 1	Geologic Age	Agency	Publish Date	% Cover
	Arkadelphia Marl	Marlstone	Mudstone	Sandstone	min: Phanerozoic - Mesozoic - Cretaceous - Late-Cretaceous, max: Phanerozoic - Mesozoic - Cretaceous - Late-Cretaceous	United States Geological Survey	2017-08-01	96.37%
	Nacatoch Sand	Sandstone		Limestone	min: Phanerozoic - Mesozoic - Cretaceous - Late-Cretaceous, max: Phanerozoic - Mesozoic - Cretaceous - Late-Cretaceous	United States Geological Survey	2017-08-01	3.63%

gSSURGO pH

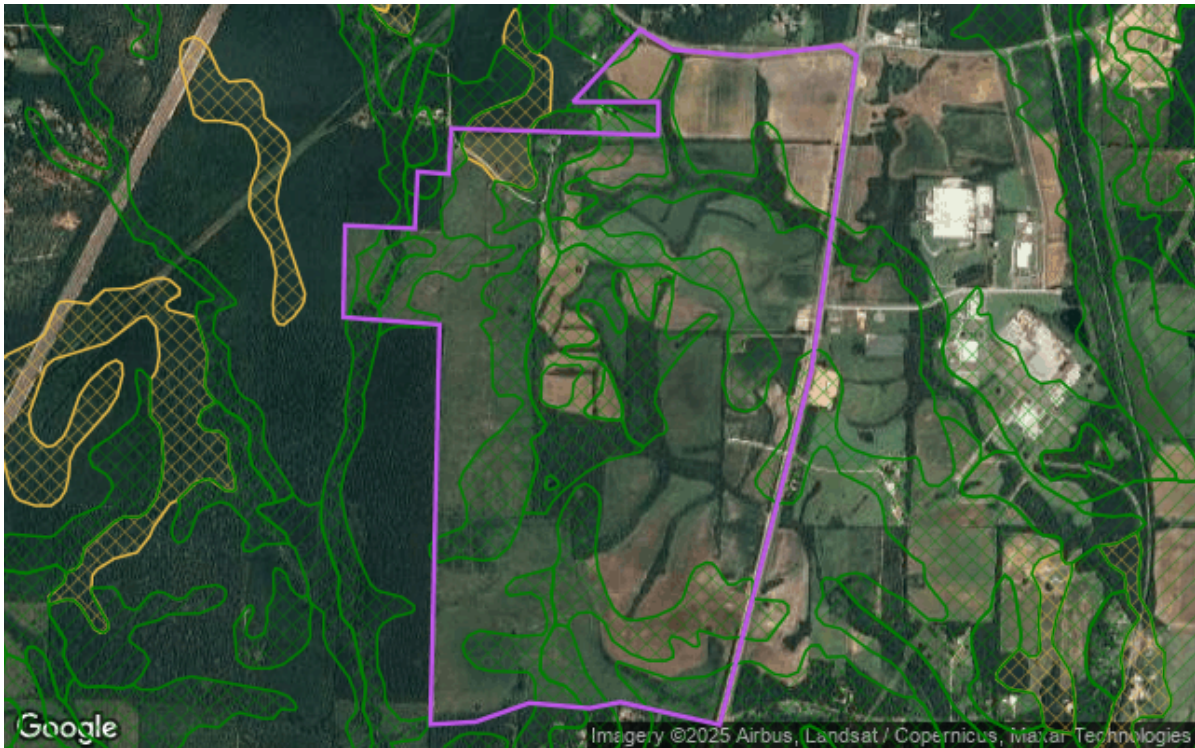


Map may not show gSSURGO pH based on proximity to subject parcel.

Symbol	Map Unit Name	NRCS gSSURGO Publish Date	% Coverage
	Houston clay, 3 to 8 percent slopes, eroded	2024-10-23	32.34%
	Oktibbeha fine sandy loam, 3 to 8 percent slopes, eroded	2024-10-23	18.34%
	Kipling silty clay loam, 2 to 5 percent slopes	2024-10-23	13.21%
	Kipling silt loam, 0 to 2 percent slopes	2024-10-23	10.08%
	Houston clay, 1 to 3 percent slopes	2024-10-23	9.38%
	Terouge silty clay, 1 to 3 percent slopes	2024-10-23	8.87%
	Ozan fine sandy loam, occasionally flooded	2024-10-23	2.54%
	Savannah fine sandy loam, 3 to 8 percent slopes	2024-10-23	1.34%
	Iuka fine sandy loam, occasionally flooded	2024-10-23	0.79%
	Sacul fine sandy loam, 3 to 8 percent slopes	2024-10-23	0.76%
	Harleston fine sandy loam, 1 to 3 percent slopes	2024-10-23	0.74%

Symbol	Map Unit Name	NRCS gSSURGO Publish Date	% Coverage
	Sumter silty clay, 3 to 12 percent slopes, eroded	2024-10-23	0.57%
	Stough fine sandy loam, 0 to 2 percent slopes	2024-10-23	0.46%
	Sacul gravelly fine sandy loam, 3 to 8 percent slopes	2024-10-23	0.38%
	Water	2024-10-23	0.12%
	Wilcox silt loam, 3 to 8 percent slopes	2024-10-23	0.07%

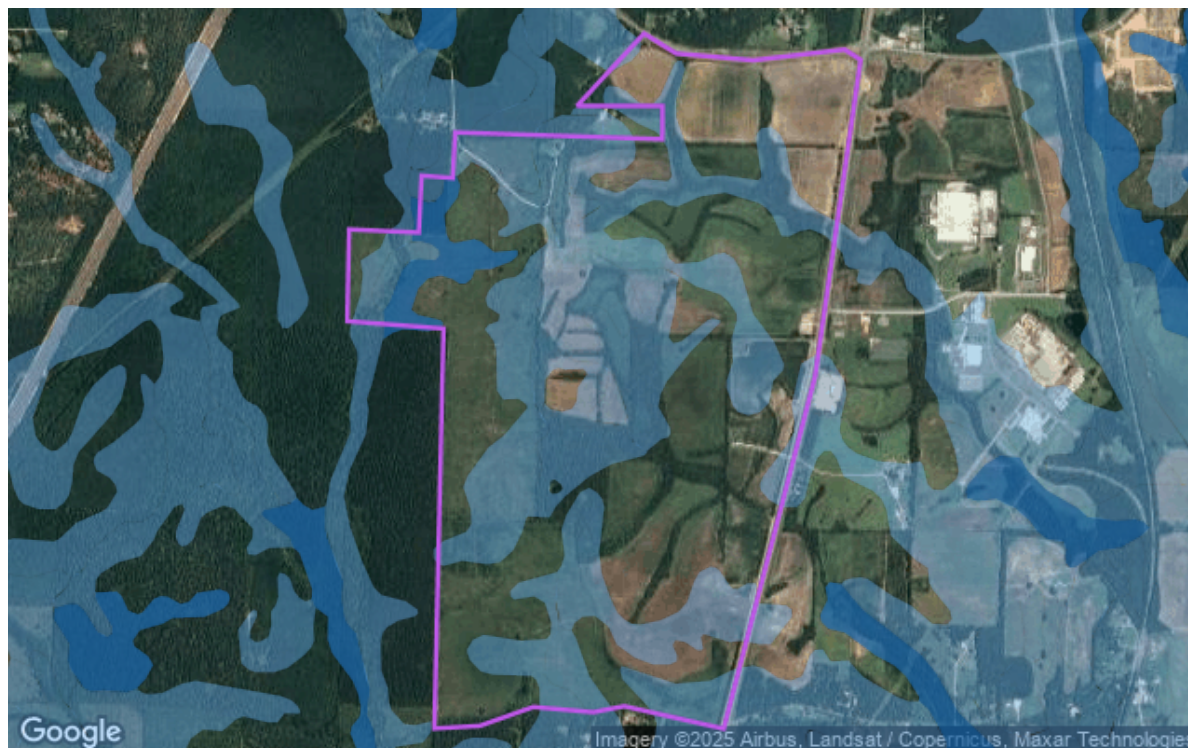
gSSURGO Prime Farmland



Map may not show gSSURGO Prime Farmland based on proximity to subject parcel.

Symbol	Farmland Class	NRCS gSSURGO Publish Date	% Coverage
	All areas are prime farmland	2024-10-23	43.53%
	Prime farmland if drained	2024-10-23	2.54%
	Farmland of statewide importance	2024-10-23	1.34%

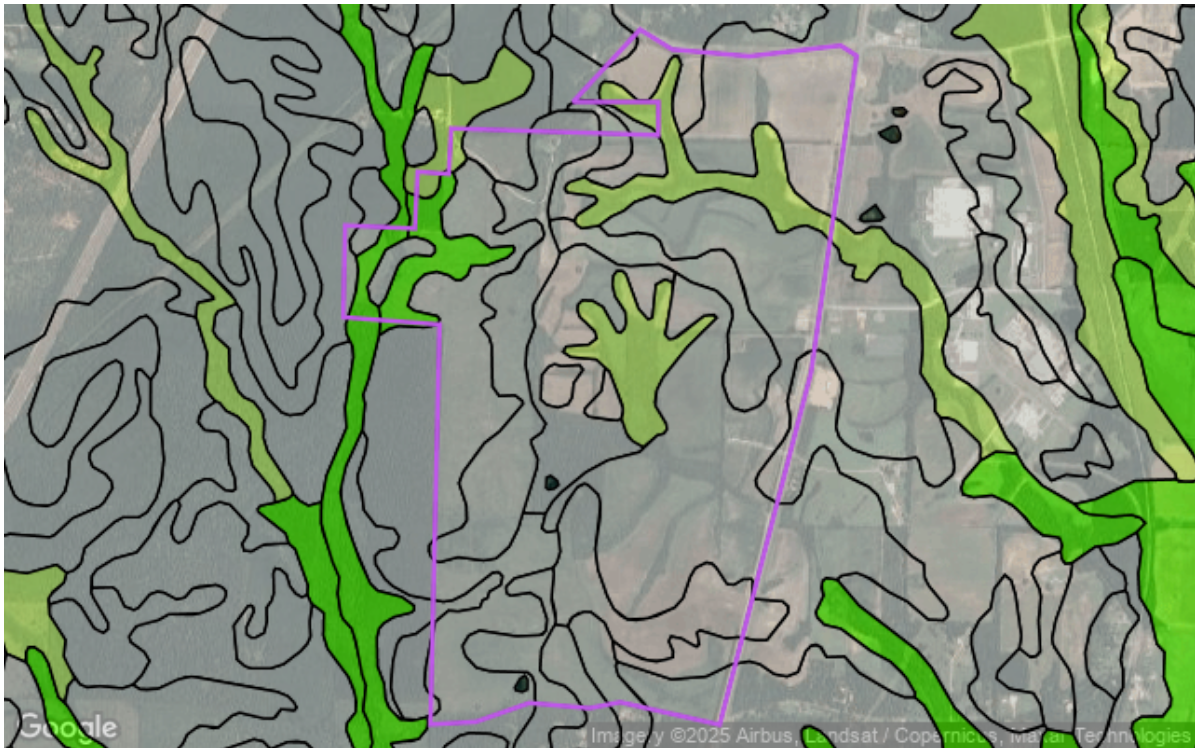
gSSURGO Hydric Soils



Map may not show gSSURGO Hydric Soils based on proximity to subject parcel.

Symbol	Drainage Class	Component Percent of Map Unit	NRCS gSSURGO Publish Date	% Coverage
■	Somewhat poorly drained	95 5	2024-10-23	13.21%
■	Somewhat poorly drained	90 5 5	2024-10-23	10.08%
■	Moderately well drained	95 5	2024-10-23	9.38%
■	Somewhat poorly drained	85 5 5 5	2024-10-23	8.87%
■	Poorly drained	90 5 5	2024-10-23	2.54%
■	Moderately well drained Poorly drained	95 5	2024-10-23	1.34%
■	Moderately well drained	85 10 5	2024-10-23	0.79%
■	Moderately well drained Poorly drained Poorly drained	85 10 5	2024-10-23	0.74%
■	Somewhat poorly drained Poorly drained Poorly drained Poorly drained	85 5 5 5	2024-10-23	0.46%

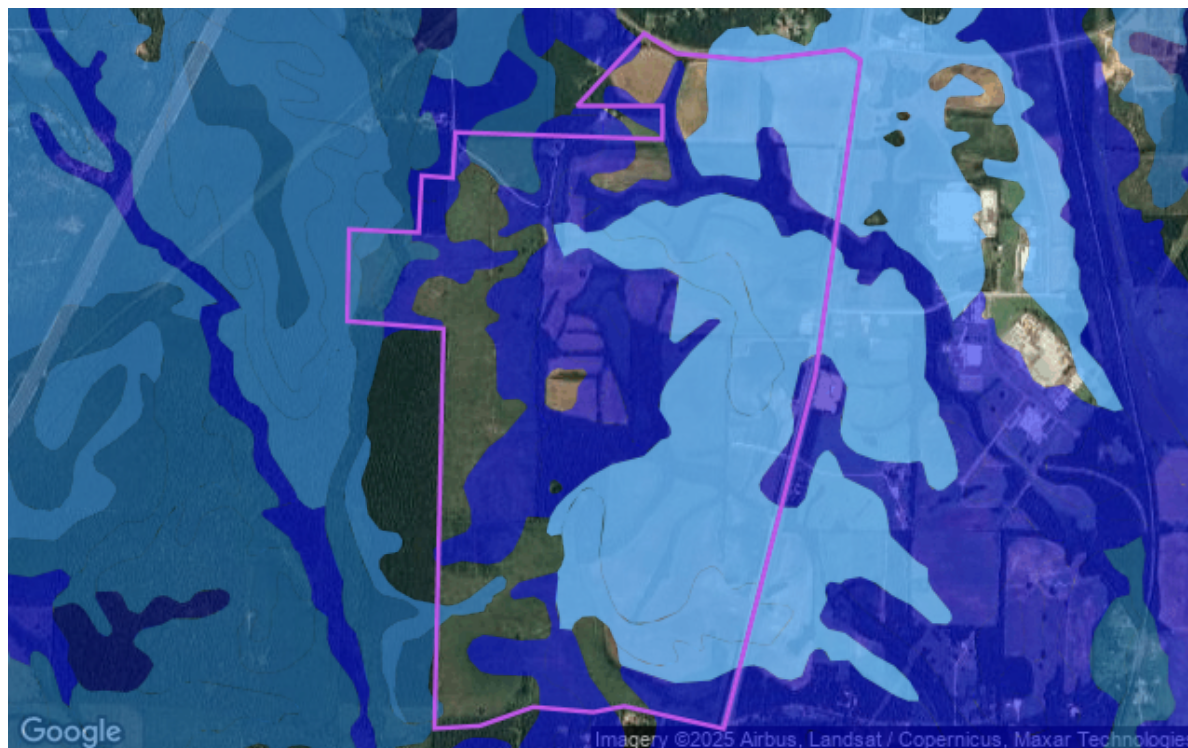
gSSURGO Flood Frequency



Map may not show gSSURGO Flood Frequency based on proximity to subject parcel.

Symbol	Flooding Frequency Dominant Condition	NRCS gSSURGO Publish Date	% Coverage
	None	2024-10-23	87.22%
	Rare	2024-10-23	9.33%
	Occasional	2024-10-23	3.32%

gSSURGO Depth To Water



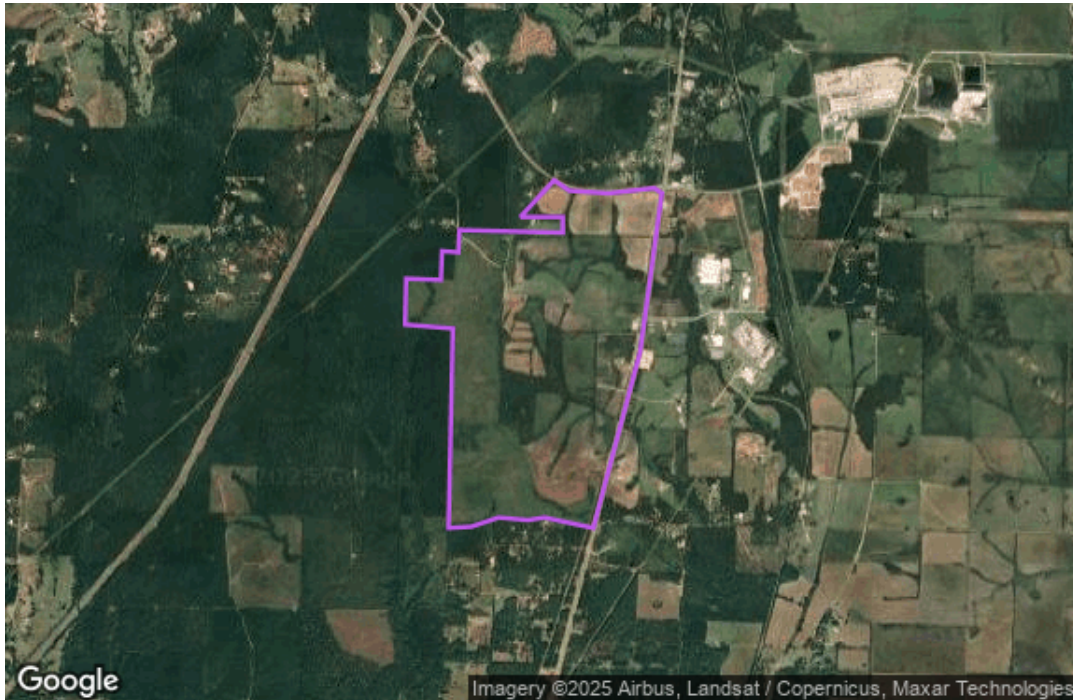
Map may not show gSSURGO Depth To Water based on proximity to subject parcel.

Symbol	Map Symbol Category	Depth to Water Table Ann. Min. (in)	NRCS gSSURGO Publish Date	% Coverage
	5-6 feet	60.24	2024-10-23	41.72%
	1-2 feet	14.17	2024-10-23	23.29%
	1-2 feet	18.11	2024-10-23	8.87%
	1-2 feet	20.87	2024-10-23	2.54%
	2-3 feet	24.02	2024-10-23	2.13%
	3-4 feet	36.22	2024-10-23	1.15%
	2-3 feet	29.92	2024-10-23	0.74%
	1-2 feet	14.96	2024-10-23	0.46%
	2-3 feet	27.17	2024-10-23	0.07%

Permitting Punch List Report

LC257065 Desktop Review for SW AR | CC Mega Site KML

Report Date: 6/4/2025
Generated By: ppchowdhury@terracon.com
Size: 1046.51 acres
County, State: Clark, Arkansas



The extent of the site may exceed current rendering limits. Not all features may appear on the map(s).

DISCLAIMER:

The following report includes possible Federal level permitting constraints identified within the project area. Permits and Reviews include, but are not limited to, the Federal Environmental Review and Authorization Inventory which catalogues Federal permits, approvals, findings, determinations or other administrative decisions issued by a Federal agency that should be considered for inclusion in the permitting timetables for projects currently tracked on the Federal Infrastructure. For more information on the Federal Environmental Review and Authorization Inventory see [Permitting Dashboard Federal Infrastructure Projects](#).

Permitting Summary

Permit or Review	Permit Triggered	Triggered By
Bald and Golden Eagle Protection Permit	No	
Business Resource Lease	No	
Conditional Letter of Map Revision	No	
Easement Administrative Action (USDA - NRCS)	No	
Endangered Species Act Consultation (DOI-FWS)	No	
Endangered Species Act Consultation (NOAA-NMFS)	No	
Fish and Wildlife Coordination Act Review (DOI - FWS)	Yes	NHD Flowline NHD Waterbody
Fish and Wildlife Coordination Act Review (NOAA)	Yes	NHD Flowline NHD Waterbody
Floodplain Assessment	No	
Native American Graves Protection Act Compliance	No	
Non-Impairment Determination (separate from NPS permit)	No	
Notice of Proposed Construction - Form 7460	No	
NPS Permit	No	
Right-of-way Authorization (DOI--BIA)	No	
Right-of-Way Authorization (DOI-BLM)	No	
Right-of-Way Authorization (DOI-FWS)	No	
Section 106 Review	No	
Section 10 of the Rivers and Harbors Act of 1899	Yes	NHD Flowline NHD Waterbody
Section 404 Clean Water Act	Yes	NHD Flowline NHD Waterbody NWI Wetland
Section 408 Permit	No	
Service Line Agreement	No	
Special Use Permit (FS)	No	
USCG Bridge Permit	No	
USCG Letter of Recommendation for Marine Operations	No	
Use Authorization (DOI-BOR)	Yes	Land Ownership Potential Con.
Wind Energy Evaluation Lease - Indian Lands	No	

Jurisdictional Summary

Federal Agency	Regional Name	Permits Triggered
Advisory Council on Historic Preservation (ACHP)		n/a
All Federal (All)		n/a
Bureau of Indian Affairs (BIA)		n/a
Bureau of Land Management (BLM)		n/a
Bureau of Reclamation (BOR)		Use Authorization (DOI-BOR)
Federal Aviation Administration (FAA)		n/a
Federal Emergency Management Agency (FEMA)		n/a
National Oceanic and Atmospheric Administration (NOAA)		Fish and Wildlife Coordination Act Review (NOAA)
National Park Service (NPS)		n/a
Natural Resources Conservation Service (NRCS)		n/a
U.S. Fish & Wildlife Services (FWS)	Southeast Region	Fish and Wildlife Coordination Act Review (DOI - FWS)
United States Army Corps of Engineers (USACE)	Vicksburg	Section 10 of the Rivers and Harbors Act of 1899
		Section 404 Clean Water Act
United States Coast Guard (USCG)		n/a
United States Forest Service (USFS)		n/a

Fish and Wildlife Coordination Act Review (DOI - FWS)

Responsible Agency: Department of the Interior (DOI)

Responsible Bureau/Department/Office: U.S. Fish & Wildlife Services (FWS)

Statute/Regulation: Fish and Wildlife Coordination Act 16 U.S.C. 661-667e

Project Type: All

Activity/Trigger: Coast Guard permits, Corps Section 10/404/103 permits, EPA Section 402 permits, FERC licenses, NRC power station licensing, BR water resource projects.

Description: The amendments enacted in 1946 require consultation with the Fish and Wildlife Service and the fish and wildlife agencies of States where the "waters of any stream or other body of water are proposed or authorized, permitted or licensed to be impounded, diverted . . . or otherwise controlled or modified" by any agency under a Federal permit or license. Consultation is to be undertaken for the purpose of "preventing loss of and damage to wildlife resources."

Pivvot Project Type: Siting, Routing

Pivvot Data Checked: 'NHD Flowline', 'NHD Waterbody'

Occurrence: OCCURRENCE FOUND

Occurrence Matrix			
Subtype(s)	Name	Area/Length	Count
STREAM/RIVER	Caney Creek	0.36 mi	1
STREAM/RIVER		2.51 mi	5
LAKE/POND		1.97 ac	8

Fish and Wildlife Coordination Act Review (NOAA)

Responsible Agency: United States Department of Commerce (DOC)

Responsible Bureau/Department/Office: National Oceanic and Atmospheric Administration (NOAA)

Statute/Regulation: Fish and Wildlife Coordination Act 16 U.S.C. 661-667e

Project Type: All

Activity/Trigger: Coast Guard permits, Corps Section 10/404/103 permits, EPA Section 402 permits, FERC licenses, NRC power station licensing, BR water resource projects, other actions dependent upon or resulting in the diversion, control or modification of a stream or other body of water.

Description: The amendments enacted in 1946 require consultation with the National Oceanic and Atmospheric Administration (NOAA)*, the Fish and Wildlife Service, and the fish and wildlife agencies of States where the "waters of any stream or other body of water are proposed or authorized, permitted or licensed to be impounded, diverted . . . or otherwise controlled or modified" by any agency under a Federal permit or license. Consultation is to be undertaken for the purpose of "preventing loss of and damage to wildlife resources." * Congress has not amended the FWCA since 1958, and, therefore, the Act does not refer to NOAA or the National Marine Fisheries Service (NMFS) or expressly refer to the functions of the Secretary of Commerce. However, the Reorganization Plan of 1970 confers the transfer of functions, including the authorities under FWCA, to NOAA and the Secretary of Commerce.

Pivvot Project Type: Siting, Routing

Pivvot Data Checked: 'NHD Flowline', 'NHD Waterbody'

Occurrence: OCCURRENCE FOUND

Occurrence Matrix			
Subtype(s)	Name	Area/Length	Count
STREAM/RIVER	Caney Creek	0.36 mi	1
STREAM/RIVER		2.51 mi	5
LAKE/POND		1.97 ac	8

Section 10 of the Rivers and Harbors Act of 1899

Responsible Agency: United States Army (US Army)

Responsible Bureau/Department/Office: United States Army Corps of Engineers (USACE)

Statute/Regulation: Rivers and Harbors Act of 1899 (33 U.S.C. 401 et seq.) Section 10 (33 USC 403)

Project Type: All

Activity/Trigger: Placement of structures affecting course, location, condition, or capacity of navigable waters of U.S. (includes offshore wind within 3 miles of coast); exemptions exist)

Description: Activities that may affect navigation on US waterways must be evaluated to ensure navigational capacity is maintained.

Pivvot Project Type: Routing, Siting

Pivvot Data Checked: 'NHD Flowline', 'NHD Waterbody'

Occurrence: OCCURRENCE FOUND

Occurrence Matrix				
Feature	Subtype(s)	Name	Area/Length	Count
Stream or River	STREAM/RIVER	Caney Creek	0.36 mi	1
Stream or River	STREAM/RIVER		2.51 mi	5
Lake\Pond - Perennial	LAKE/POND		1.97 ac	8

Section 404 Clean Water Act

Responsible Agency: United States Army (US Army)

Responsible Bureau/Department/Office: United States Army Corps of Engineers (USACE)

Statute/Regulation: Clean Water Act (33 USC 1251 et seq.) Section 404 (33 USC 1344)

Project Type: All

Activity/Trigger: Discharge of dredged or fill materials into waters of U.S. (includes wetlands, defined as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas")

Description: Clean Water Act Section 404 regulates the discharge of dredged and fill material into waters of the United States, including wetlands. In general, to obtain a Section 404 permit, applicants must demonstrate that the discharge of dredged or fill material would not significantly degrade the nation's waters and there are no practicable alternatives less damaging to the aquatic ecosystem, so long as the alternative does not have other significant adverse environmental consequences. Applicants should also describe steps taken to minimize impacts to water bodies and wetlands and provide appropriate and practicable mitigation, such as restoring or creating wetlands, for any remaining, unavoidable impacts.

Pivvot Project Type: Routing, Siting

Pivvot Data Checked: 'NHD Flowline', 'NHD Waterbody', 'NWI Wetland'

Occurrence: OCCURRENCE FOUND

Occurrence Matrix			
Subtype(s)	Name	Area/Length	Count
STREAM/RIVER	Caney Creek	0.36 mi	1
STREAM/RIVER		2.51 mi	5
LAKE/POND		1.97 ac	8
NWI Wetland	Freshwater Pond	1.57 ac	5
NWI Wetland	Riverine	6.85 ac	5

Use Authorization (DOI-BOR)

Responsible Agency: Bureau of Reclamation (BOR)
Responsible Bureau/Department/Office:

Statute/Regulation: Title V of the Federal Land Policy and Management Act of 1976, as amended (FLPMA) (43 USC 1763), 43 CFR 2800

Project Type: Federal Hydropower Non-Federal Hydropower - Leases Non-Federal Hydropower - Licenses (including Non-Federal Marine and Hydrokinetic Projects)

Activity/Trigger: Through communication with the local Reclamation office and submission of an application using one of the following forms depending on the nature of the requested use:(a) Use SF 299 to request a use authorization for the placement, construction, and use of energy, transportation, water, or telecommunication systems and facilities on or across all Federal property including Reclamation land, facilities, or waterbodies. (b) Use Form 7-2540 to request any other type of use authorization.

Description: Applications to obtain a use authorization for the placement, construction, and use of energy, transportation, water, or telecommunication systems and facilities on or across all Federal property including Reclamation land, facilities, or waterbodies. Reclamation uses SF 299, Application for Transportation and Utility Systems and Facilities on Federal Lands. The regulations addressing this are 43 CFR part 429, Use of Bureau of Reclamation Land, Facilities, and Waterbodies.

Pivvot Project Type: Routing, Siting

Pivvot Data Checked: 'Land Ownership Potential Con.'

Occurrence: OCCURRENCE FOUND

Occurrence Matrix			
Subtype(s)	Name	Area/Length	Count
NRIS Cultural Site	Arkansas 51, Old, Curtis to Gum Springs	24.62 ac	1

REFERENCES CITED

AMASDA

- 2025 Automated Management of Archeological Site Data in Arkansas. Arkansas Archeological Survey, Electronic document, <http://archeology.uark.edu/amasdaonline/index.html>, accessed January 19, 2025.

Arkansas Historic Preservation Program

- 2025 Arkansas Historic Preservation Program Data. Electronic document, <http://www.arcgis.com/home/webmap/viewer.html?webmap=e9040629adab4162bd21b7dde5a5702d>, accessed January 19, 2025.

Branam, Chris and Jose Vilahomat, and Devin Sorrows

- 2005 *A Cultural Resources Survey of the Proposed Paper Manufacturing Plan in Clark County, Arkansas*. F.E.A. Project Report 2017-179, submitted to Crafton Tull.

Find a Grave

- 2025 Richwoods Cemetery. Electronic document, <https://www.findagrave.com/cemetery/55935/richwoods-cemetery>, accessed January 19, 2025.

General Land Office (GLO)

- 2025a U.S. Department of the Interior: Bureau of Land Management. Original Survey Plat Details, Township 8 South, Range 20 West. Electronic document, https://glorerecords.blm.gov/details/survey/default.aspx?dm_id=3408&sid=hbaleuba.rtu, accessed January 19, 2025.

- 2025b U.S. Department of the Interior: Bureau of Land Management. Original Survey Plat Details, Township 8 South, Range 20 West. Electronic document, https://glorerecords.blm.gov/details/survey/default.aspx?dm_id=3411&sid=hbaleuba.rtu, accessed January 19, 2025.

Horne, Amber M.

- 2006 *Footprints Across Arkansas: Trail of Tears Removal Corridors for the Cherokees, Chickasaws, Choctaws, Creeks & Seminoles*. Arkansas Department of Heritage, Little Rock.

National Park Service

- 1983 Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines. United States Department of the Interior. Electronic document, https://www.nps.gov/history/local-law/arch_stnds_0.htm, accessed December 11, 2023.
- 2024 Trail of Tears National Historic Trail Shapefile, 1:100,000 scale. NTIR Data Administrator, National Park Service, updated March 22, 2024. Geospatial database, <https://hub.arcgis.com/datasets/nps::trte-trail-of-tears-nht-100k/explore?location=35.668031%2C-89.340420%2C6.00>, accessed December 5, 2024.

Natural Resources Conservation Service (NRCS)

2025 Web Soil Survey: Soil Surveys GIS Interface. United States Department of Agriculture. Electronic document, <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, accessed February 6, 2025.

Sesser, David

2025 Old Arkansas 51, Curtis to Gum Springs. <https://encyclopediaofarkansas.net/entries/old-arkansas-51-curtis-to-gum-springs-13621/>, accessed January 19, 2025.

United States Geological Survey

2025a September 1949 aerial imagery. Electronic document, <https://earthexplorer.usgs.gov/>, accessed January 19, 2025.

2025b April 1958 aerial imagery. Electronic document, <https://earthexplorer.usgs.gov/>, accessed January 19, 2025.

2025c 1959 (1960 edition) Arkadelphia, AR Topographic Quadrangle. Electronic document, <https://ngmdb.usgs.gov/topoview/viewer/#14/34.0395/-93.1107>, accessed January 19, 2025.

2025d January 1968 aerial imagery. Electronic document, <https://earthexplorer.usgs.gov/>, accessed January 19, 2025.