

February 1, 2019

Ms. Candice Michalowicz
C2 Energy Capital LLC
55 Fifth Avenue
New York, New York 10003

Re: FINAL REPORT
Cultural Resource Investigations of Approximately
48 Acres at the Proposed Richardson Solar Project
Barnwell County, South Carolina
Terracon Project No. 73187225
SHPO Project NO. 15-ED0126

Authors: Kelly Higgins, M.A., Doug Sain, Ph.D., Lauren Christian, M.A., RPA, and Bruce Harvey, Ph.D.

Dear Ms. Michalowicz:

Terracon Consultants, Inc. (Terracon), on behalf of C2 Energy Capital LLC, has completed a Cultural Resources Reconnaissance Survey (CRRS) of approximately 48 acres at the proposed Richardson Solar Project in Barnwell County, South Carolina (Figures 1 and 2). The purpose of the survey was to identify and evaluate archaeological and historic resources within and near the project area that could be eligible for inclusion in the National Register of Historic Places (NRHP). This work was done under contract to C2 Energy Capital, LLC, in general accordance with Terracon Proposal No. PEN187387A, dated November 9, 2018. The project was conducted for the purpose of environmental due diligence and is not intended for compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 300101 et seq.).

This report was initially submitted for review to the State Historic Preservation Office on December 12, 2018. In a review of the report by Archaeologist Keely Lewis, Ms. Lewis requested that an intensive (Phase I) survey was needed of seven acres that had the potential for containing archaeological resources (Letter from Keely Lewis to William Green, dated January 18, 2019). The results of the Phase I survey are included in this report.

1.0 PROJECT DESCRIPTION

The project area is a proposed solar farm located approximately 2.34 miles north of the City of Barnwell in Barnwell County, South Carolina. The tract is roughly rectangular and is bounded by Reynolds Road to the west, SC 3 to the east, and private property to the north and south. The area surrounding the project area consists primarily of agricultural fields and single family residential development. Based on topography, existing vegetation, and the nature of the



proposed undertaking, the proposed Area of Potential Effects (APE) is considered to be a 0.25-mile radius around the project area.

2.0 ENVIRONMENTAL CONTEXT

The project is situated in the Upper Coastal Plain physiographic province and lies within the ACE drainage basin. The closest natural water source is Turkey Creek, a tributary of the Salkehatchie River (Figure 1). Originating in the City of Barnwell, the Salkehatchie River joins with the Little Salkehatchie River to form the Combahee River before emptying into Saint Helena Sound near Beaufort, South Carolina.

Soils in the project area are composed of loamy and sandy soils formed in loamy marine deposits. Soil types include well drained Wagram sand and Barnwell loamy sand (Figure 3). Topography in the project area is gently sloping, with elevations ranging from approximately 240 ft above mean sea level (AMSL) in the majority of the project area, with a rise to approximately 250 ft AMSL in the east-central portion of the project area. Vegetation consists primarily of fallow agricultural fields, with small stands of mixed hardwood and pine in the eastern portion of the project area (Figures 4–6).

3.0 BACKGROUND RESEARCH

3.1 Previously Recorded Sites

Background research for the project area was conducted on November 28, 2018, using ArchSite, a GIS program depicting previously recorded archaeological and historic resources in South Carolina. Also examined were the archaeological site files at the South Carolina Institute of Archaeology and Anthropology (SCIAA) and prior cultural resources reports pertaining to the project area, if applicable. The area examined was a 0.5-mile radius around the project area. Based on the background research there are no previously recorded cultural resources within the 0.5-mile radius.

3.2 Historic Map Research

In addition to the records review, eighteenth through twentieth century maps of the project area were examined to determine whether historic resources were likely to be present within the boundary of the proposed project area. Mills' 1825 map of the Barnwell District depicts Reynolds Road running along the western edge of the project area, but there are no settlements depicted in or around the project area (Figure 7). Similarly, a United States Coastal Survey (USCS) 1865 map of Middle Georgia and South Carolina also shows no settlements in or around the project area. The USGS 1923 Williston quadrangle shows no structures in the project area; however, several structures are depicted along Barnwell Road, Reynolds Road, and State Road S 6 168 (Figure 9). The 1943 Williston quadrangle shows increased development in the surrounding area,

with one structure located in the western portion of the project area along Reynolds Road (Figure 10). This structure does not appear on current maps of the area (Figure 1) and was not found during the archaeological survey.

3.3 Predictive Model Research

For the Coastal Plain of South Carolina, various predictive models have been used to identify areas having a high likelihood for containing archaeological sites (e.g. Brooks and Scurry 1978; Cable 1996; Clement et al 2001; O'Donoghue 2008a, 2008b; Scurry 2003). In general, the most significant variables for determining site location appear to be distance to a permanent water source or wetland, slope, and soil drainage characteristics. Prehistoric sites tend to occur on low slope areas with well drained soils that are within 200 meters of a permanent water source or wetland, or near the interface of well and poorly drained soils. Historic homes tend to be located on well drained soils near old roads.

Based on these parameters, approximately 14.6 percent (seven acres) of the project area had a high potential for containing archaeological sites due to the presence of a structure indicated on historic maps and a ridge in the east-central portion of the project area. The remainder of the project area had a moderate potential for containing archaeological resources (Figure 11).

4.0 RESULTS OF FIELDWORK

4.1 Archaeological Reconnaissance Survey

On December 4, 2018, Archaeologist Kelly Higgins, M.A., conducted a reconnaissance survey of the project area. Shovel test pits (STPs) were excavated at 30-meter intervals along three transects in various portions of the project area (Figure 11, Table 1). In addition, a pedestrian survey was conducted of areas with good ground surface exposure. In general, surface visibility was less than 50 percent.

For discussion purposes, the project area was divided into three general areas: Area A is located in the eastern portion of the tract, Area B is located in the central portion of the project area, and Area C is located to the west along Reynolds Road (Figure 11). Each shovel test was approximately 30 cm in diameter and was excavated to 80 centimeters below surface (cmts), the water table, or to culturally sterile subsoil. As a result of the survey, no archaeological sites were identified.

Table 1. Shovel Test Transects and Results.

Transect	STPs	Bearing	Area/Landform	Results
Transect 1	4	120°	Area A - Rise	No sites or isolated finds
Transect 2	3	-	Area B - Circular Depression	No sites or isolated finds
Transect 3	3	90°	Area C - Level Plain	No sites or isolated finds

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4.1.1 Area A

Area A, located in the eastern portion of the project area, is located on a rise just southwest of a small Carolina Bay (Figure 11). Vegetation consisted of a fallow field, with small stands of mixed hardwood and pine. Surface visibility is approximately 30 percent.

Four shovel tests, ranging from 50–80 cm deep, were excavated at 30-meter intervals along Transect 1 in Area A. A typical soil profile in this area consisted of approximately 15 cm of very dark grayish brown (10YR 3/2) sandy loam (Ap horizon), overlying approximately 25 cm (15–40 cmbs) of yellowish brown (10YR 5/6) sand (E horizon), followed by approximately 40 cm (40–80 cmbs) of reddish yellow (7.5YR 6/8) clayey sand (B horizon) (Figure 12). No archaeological sites or isolated finds were identified in Area A.

4.1.2 Area B

Area B is located in the north-central portion of the project area around a depression that at one time may have been a wetland (Figure 11). Vegetation consists primarily of fallow agricultural fields, while surface visibility was around 30 percent. Within Area B, three shovel tests, ranging from 45–80 cm deep, were excavated around the depression. A typical soil profile consisted of approximately 15 cm of very dark grayish brown (10YR 3/2) sandy loam (Ap horizon), overlying approximately 5 cm (15–20 cmbs) of yellowish brown (10YR 5/6) sand (E horizon), followed by approximately 20 cm (20–40 cmbs) of reddish yellow (7.5YR 6/8) clayey sand (B horizon), overlying 10+ cm (40–50+ cmbs) of reddish yellow (7.5YR 6/8) sandy clay subsoil (Bt horizon) (Figure 13). No archaeological sites or isolated finds were identified in Area B.

4.1.3 Area C

Area C is located in the western portion of the project area in an area where the 1943 Williston USGS quadrangle depicts a structure (Figure 11). Vegetation in this area consists of fallow agricultural fields and surface visibility was around 40 percent. Three shovel tests, ranging from 45–75 cm deep, were excavated at 30-meter intervals along Transect 3 in Area C. A typical soil profile consisted of approximately 30 cm of very dark grayish brown (10YR 3/2) sandy loam (Ap horizon), overlying approximately 10 cm (30–40 cmbs) of yellowish brown (10YR 5/6) sand (E horizon), followed by 10+ cm (40–50+ cmbs) of reddish yellow (7.5YR 6/8) sandy clay subsoil (Bt horizon) (Figure 14). No archaeological sites or isolated finds were identified in Area C and there was no evidence of the structure that was depicted on the 1943 map.

4.2 Phase I Archaeological Survey

At the request of SHPO, a Phase I archaeological survey was conducted of seven acres of the project area believed to have a high potential for containing archaeological sites (see Figure 11). Fieldwork for the Phase I survey was conducted on January 25, 2019, by Archaeologist Douglas

Sain Ph.D. and Crew Chief Samantha Hunt. No shovel tests were excavated in Areas A and B due to the recent construction in these portions of the project area (Figures 15 and 16). The excavation of one shovel test was attempted in the southwest corner of Area C, but it immediately filled with water. All of Area C was saturated (Figure 17) and the survey could not be completed in this area either.

4.3 Architectural Survey

An architectural survey was conducted to record structures more than 50 years old within a 0.25-mile radius of the project area that retained at least a modest degree of integrity. Based on the architectural survey, no structures over 50 years of age were recorded within the project area, and five structures and one cemetery were recorded within the 0.25-mile APE (Figure 1, Table 2). The majority of properties identified within the APE first appear on a 1979 topographic map of the area and are post-WWII single family houses.

Table 3. Surveyed Historic Resources within the APE.

Survey ID	Description	NRHP Recommendation	Figure No.
0496	Single family dwelling, ca. 1970	Not Eligible	18
0497	Single family dwelling, ca. 1970	Not Eligible	19
0498	Single family dwelling, ca. 1970	Not Eligible	20
0499	Single family dwelling, ca. 1970	Not Eligible	21
0500	Single family dwelling, ca. 1970	Not Eligible	22
0501	Barnwell Memory Gardens, 1969	Not Eligible	23

4.3.1 Resource No. 0496

Resource No. 0496 is a circa 1970 one-story frame residence with brick siding (Figure 18). The house is rectangular in plan with the long side facing the street, surmounted by a lateral gable roof with a small front gable covering one bay on the left side. The façade to the right of the front porch gable section is recessed behind the overhanging roof, with an off-center single door flanked by large bay windows. A one-story open porch has a shed roof which projects from the middle of the lateral gable roof and is supported by slender metal columns. A brick chimney rises from the center of the front roof, while an open carport is located at the front on the right side. The lot also contains a modern two-story frame storage building.

Resource No. 0496 has remained on its original site of construction and has retained its original setting. However, Resource 0496 has not retained all of its vernacular workmanship style or original materials. Therefore, it has retained integrity in location and setting, but not in feeling, workmanship, or association. In addition, there is no sense of a particular aesthetic, nor is there association with an important event or person.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

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Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns of our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – This resource is a ranch-style house that does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – This resource is unlikely to yield significant information about the history of Barnwell County.

This resource does not retain its original workmanship, displays no distinctive architectural features or characteristics, and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Resource No. 0496 is recommended ineligible for inclusion in the NRHP.

4.3.2 Resource No. 0497

Resource No. 0497 is a circa 1970 one-story frame residence with vinyl siding (Figure 19). The house is rectangular in plan with the long side facing the street, surmounted by a lateral gable roof with a small front gable covering one bay on the left side. The asymmetrical 5-bay façade features an off-center single door flanked on each side by two double windows. The one-story open porch projects from the right side of the house and is protected by a shed roof and is supported by slender wooden posts.

Resource No. 0497 has remained on its original site of construction; therefore, it has retained integrity in location. However, it has not retained a majority of its original materials or vernacular workmanship style and there is no sense of a particular aesthetic, nor is there association with an important event or person.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns or our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – Resource No. 0497 is a ranch-style single family residence that does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – This resource is unlikely to yield significant information about the history of Barnwell County.

Resource No. 0497 does not display distinctive architectural features or characteristics and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Resource No. 0497 is recommended ineligible for inclusion in the NRHP.

4.3.3 Resource No. 0498

Resource No. 0498 is a circa 1970 one-story frame residence with primarily brick siding; the off-center entrance and bay window are surrounded by vinyl siding (Figure 20). The house is rectangular in plan with the long side facing the street, surmounted by a combination roof, hipped on the right leading to a lateral gable on the right, while a small front gable one-bay section projects from off-center on the façade. The asymmetrical façade features an off-center single door on the left with a tripartite window on the right and a double window on the left, while the projecting gabled section has a double window. There is an exterior and brick chimney on the left side.

Resource No. 0498 has remained on its original site of construction and remains in a rural setting; therefore, it has retained integrity in location and setting. However, a majority of its original materials are missing, there is no particular feeling, workmanship style or aesthetic. In addition, there is no known association with an important event or person.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns of our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – This resource does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – This resource is unlikely to yield significant information about the history of Barnwell County.

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This property has been modified and does not embody distinctive architectural features or characteristics and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Resource No. 0498 is recommended ineligible for inclusion in the NRHP.

4.3.4 Resource No. 0499

Resource No. 0499 is a circa 1970 one-story frame residence with brick siding (Figure 21). The house is rectangular in plan with the long side facing the street, surmounted by a lateral gable roof, with a small hipped section projecting from the left side. The four-bay façade has a recessed single entrance off-center on the left, flanked by a single window on the left and a tripartite bay window and a single window on the right. An open carport is on the right, beneath a continuation of the roof and separate from the house by an open walkway.

This structure has remained on its original site of construction and remains in a rural setting; therefore, it has retained integrity in location and setting. However, there is no particular feeling, workmanship style or aesthetic, nor is there a known association with an important event or person.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns of our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – This resource is a Ranch-style single family dwelling that does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – This resource is unlikely to yield significant information about the history of Barnwell County.

This property does not display distinctive architectural features or characteristics and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Resource No. 0499 is recommended ineligible for inclusion in the NRHP.

4.3.5 Resource No. 0500

Resource No. 0500 is a circa 1970 one-story frame residence with brick siding (Figure 22). The house is rectangular in plan with the long side facing the street, surmounted by a lateral gable roof, with a small hipped section projecting from the left side. The four-bay façade has an off-center single entrance flanked by a single window on the right and a tripartite window and a single window to the left. A one-story open porch spans the façade, with a shed roof supported by slender metal posts. A lower one-story lateral gable enclosure projects from the left side of the house, recessed behind the façade, with an open flat-roof carport in front, supported by wide metal columns. The lot features a modern one-story detached garage.

This structure has remained on its original site of construction and remains in a rural setting; therefore, it has retained integrity in location and setting. However, a majority of its original materials are missing and there is no particular feeling, workmanship style, or aesthetic. In addition, there is no known association with an important event or person.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns of our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – This resource is a Ranch-style single family dwelling that does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – The resource is unlikely to yield significant information about the history of Barnwell County.

This property does not display distinctive architectural features or characteristics and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Resource No. 0500 is recommended ineligible for inclusion in the NRHP.

4.3.6 Resource No. 0501 – Barnwell County Memory Gardens

The Barnwell County Memory Gardens, established around 1969, is approximately 12 acres of flat land located on the east side of Reynolds Road. There are approximately 700 burials, with the earliest identified internment dated 1969 (Figure 23). One headstone for a person who died in 1934 appears to be a reburial. The cemetery has only flat grass markers to denote the burials.

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The lot is rectangular, but the cemetery features a circular drive, with a low stone circular memorial structure in the center.

The Barnwell County Memory Gardens has remained on its original site and retains its rural setting; therefore, it has retained integrity in location and setting. However, there is no particular feeling as the markers are of common twentieth century design and material. In addition, the cemetery has no known association with an important person or event.

In regard to the National Register Criteria for Evaluation (National Register Bulletin 15):

Criterion A – This resource has no known association with events that have made a significant contribution to the broad patterns of our history.

Criterion B – This resource has no known association with the lives of significant persons in our past.

Criterion C – This resource is a community cemetery that does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic value.

Criterion D – This resource is unlikely to yield significant information about the history of Barnwell County.

Barnwell County Memory Gardens displays no distinctive architectural features or characteristics and lacks significance through aesthetic features or association with an important person or historic context. Based on this evaluation, Barnwell County Memory Gardens is recommended ineligible for inclusion in the NRHP.

5.0 SUMMARY AND RECOMMENDATIONS

Shovel testing and a surface inspection in areas of the tract most likely to contain archaeological resources did not result in the discovery of any archaeological sites or isolated finds. The architectural survey recorded six historic resources within the proposed APE. All of these resources lack distinctive architectural features or characteristics, or significance through their association with an important person or historic context, and all are recommended as being ineligible for inclusion in the NRHP.

Based on the results of the surveys, it is Terracon's recommendation that the project area has a low potential for containing significant archaeological resources and that no additional cultural resource investigations are warranted for the proposed project.

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6.0 CLOSING

Terracon appreciates the opportunity to provide you with this report. If you have any questions, please do not hesitate to contact Bill Green at (803) 403-1256 or via email at wgreen@terracon.com.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read "William Green", is positioned above the printed name and title.

William Green, M.A., RPA #10387
Principal
Department Manager, Natural and Cultural Resources

A handwritten signature in black ink, appearing to read "Kelly Higgins", is positioned above the printed name and title.

Kelly Higgins, M.A.
Archaeologist

7.0 REFERENCES

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2018 <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>. United States Department of Agriculture soils website. Accessed December 3, 2018.

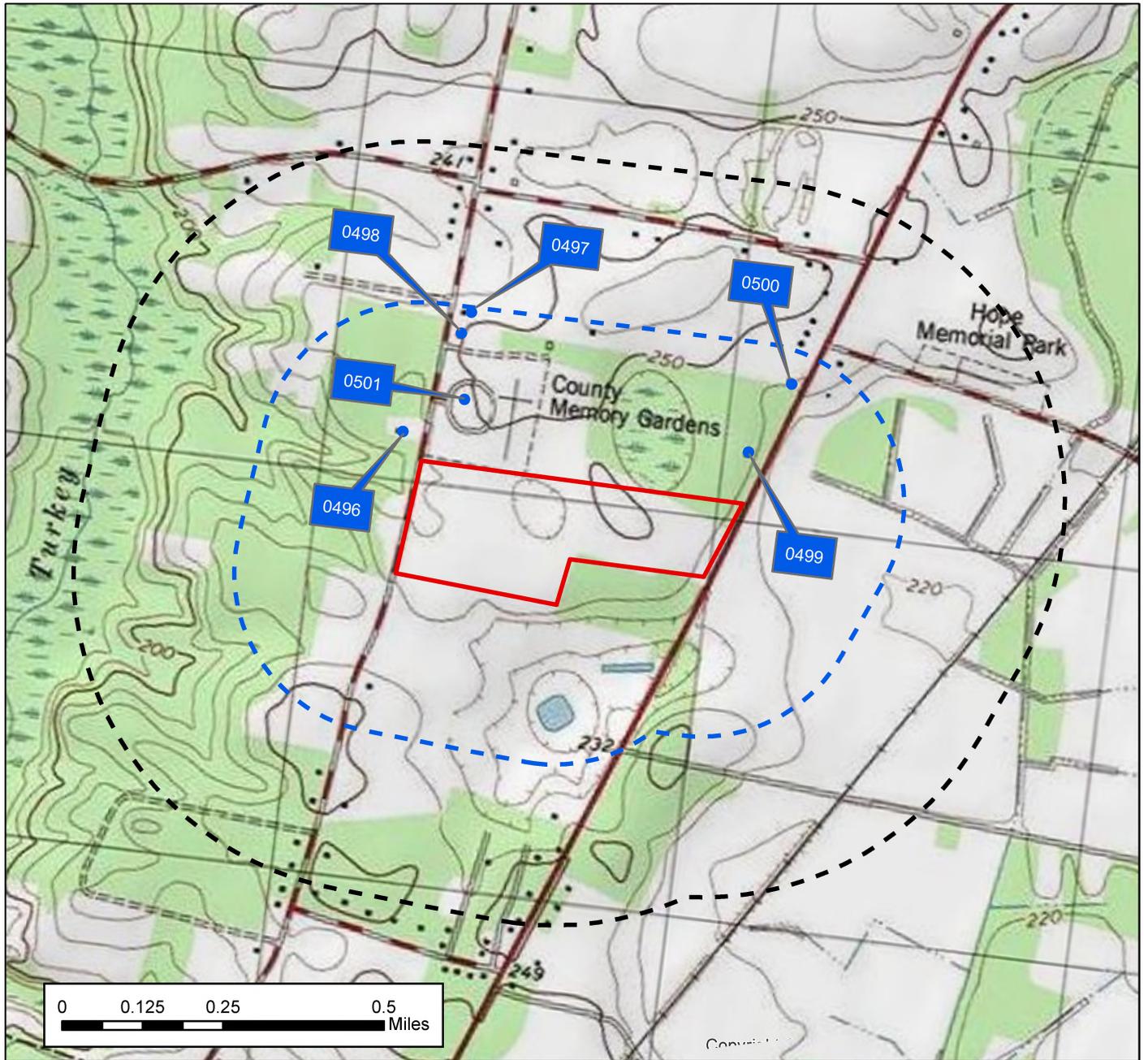
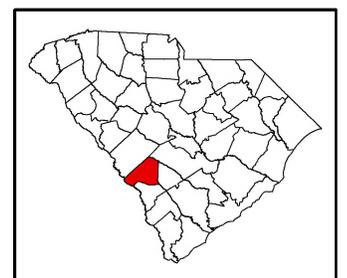
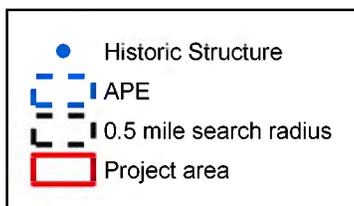


Figure 1. Project area, 0.5 mile search radius, and cultural resources within the APE. Base Map: Blackville (197) 7.5' USGS topographic quadrangle.



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Drawn By:	SJH
Reviewed By:	KLH

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USGS TOPOGRAPHIC MAP
 RICHARDSON SOLAR
 BARNWELL CO., SC

Figure
1

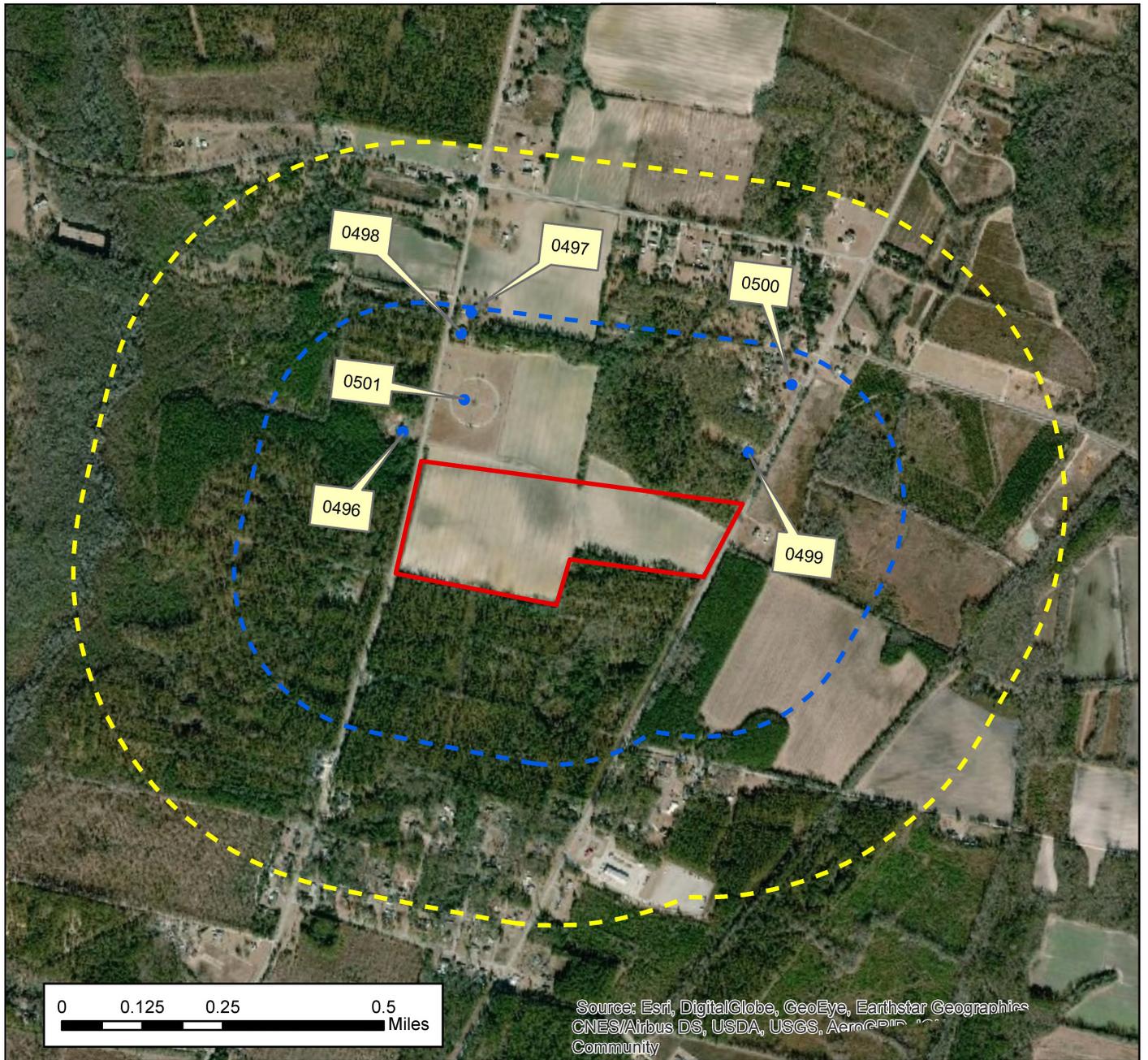
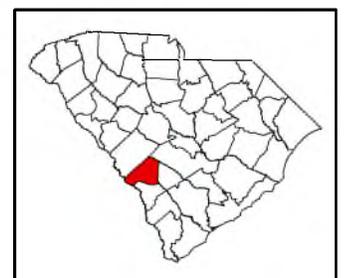
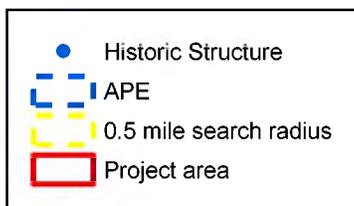


Figure 2. Project area, 0.5 mile search radius, and cultural resources within the APE.
Base Map: ESRI World Imagery.



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AERIAL IMAGERY
RICHARDSON SOLAR BARNWELL CO., SC

Figure
2

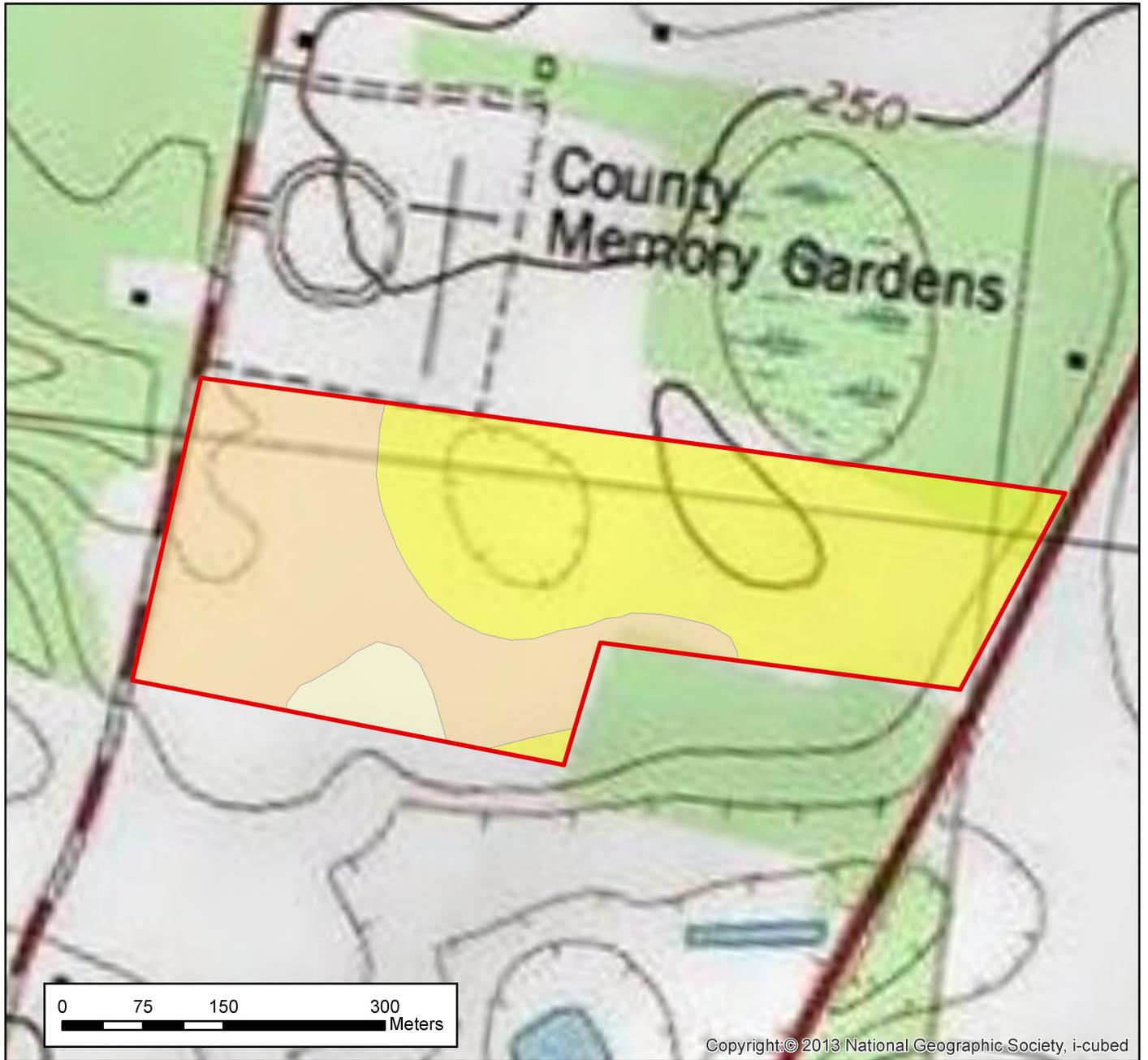
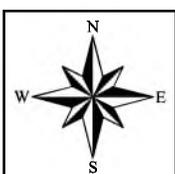
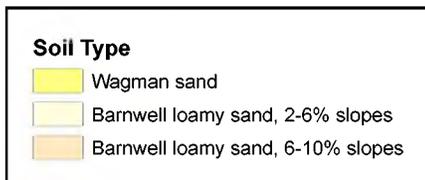
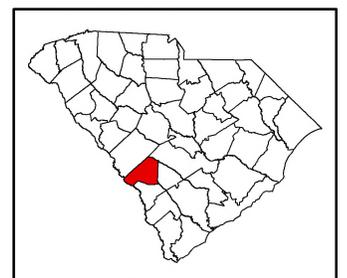


Figure 3. Soil types in the project area. Soil data obtained from NRCS Web Soil Survey. Base Map: Blackville (1979) 7.5' USGS topographic quadrangle.



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SOIL TYPES
RICHARDSON SOLAR BARNWELL CO., SC

Figure
3

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Figure 4. Vegetation in the eastern portion project area, facing southeast.



Figure 5. Vegetation in the central portion of the project area, facing southwest.

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Figure 6. Vegetation in the western portion of the project area, facing east.



Figure 7. Mills' (1825) map of the Barnwell District showing the approximate location of the project area in red.



Figure 8. United States Coast Survey of Middle Georgia and South Carolina (1865) showing the approximate location of the project area in red.

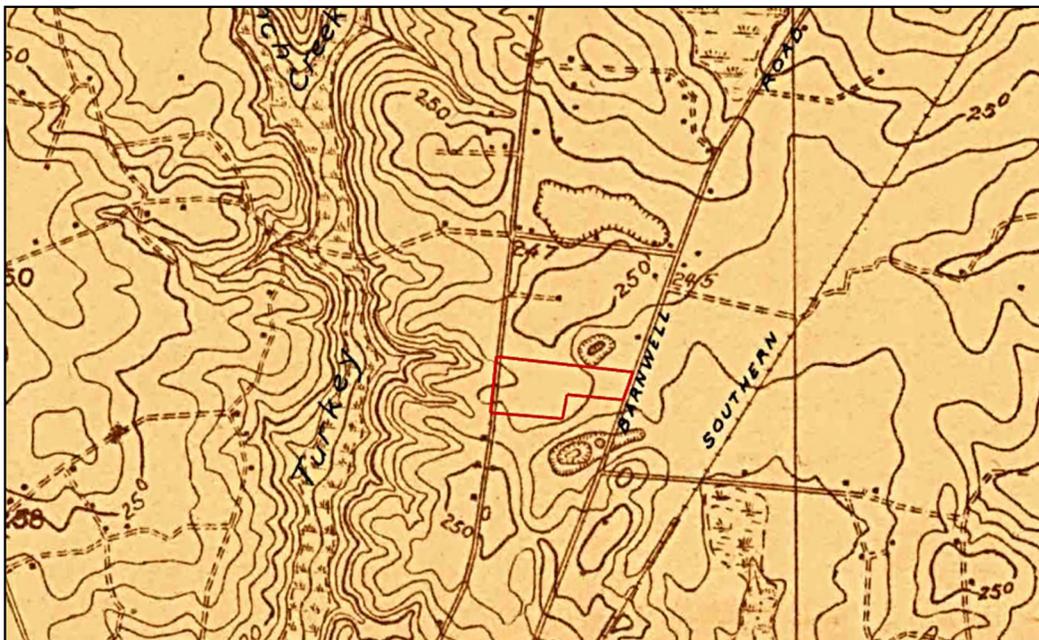


Figure 9. Williston (1923) USGS quadrangle showing the project area in red.

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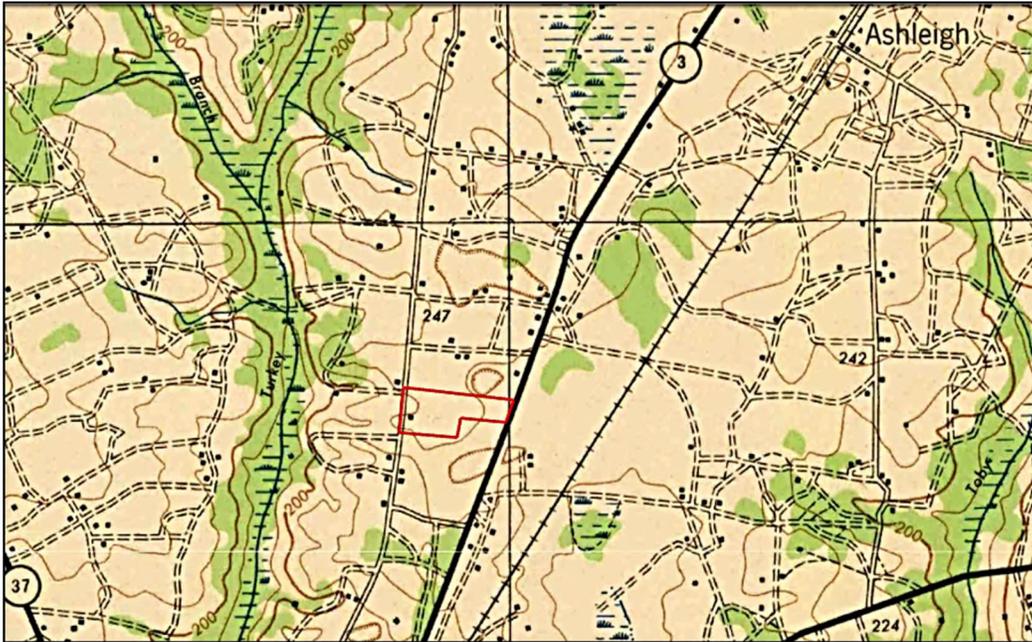


Figure 10. Williston (1943) USGS quadrangle showing the project area in red.

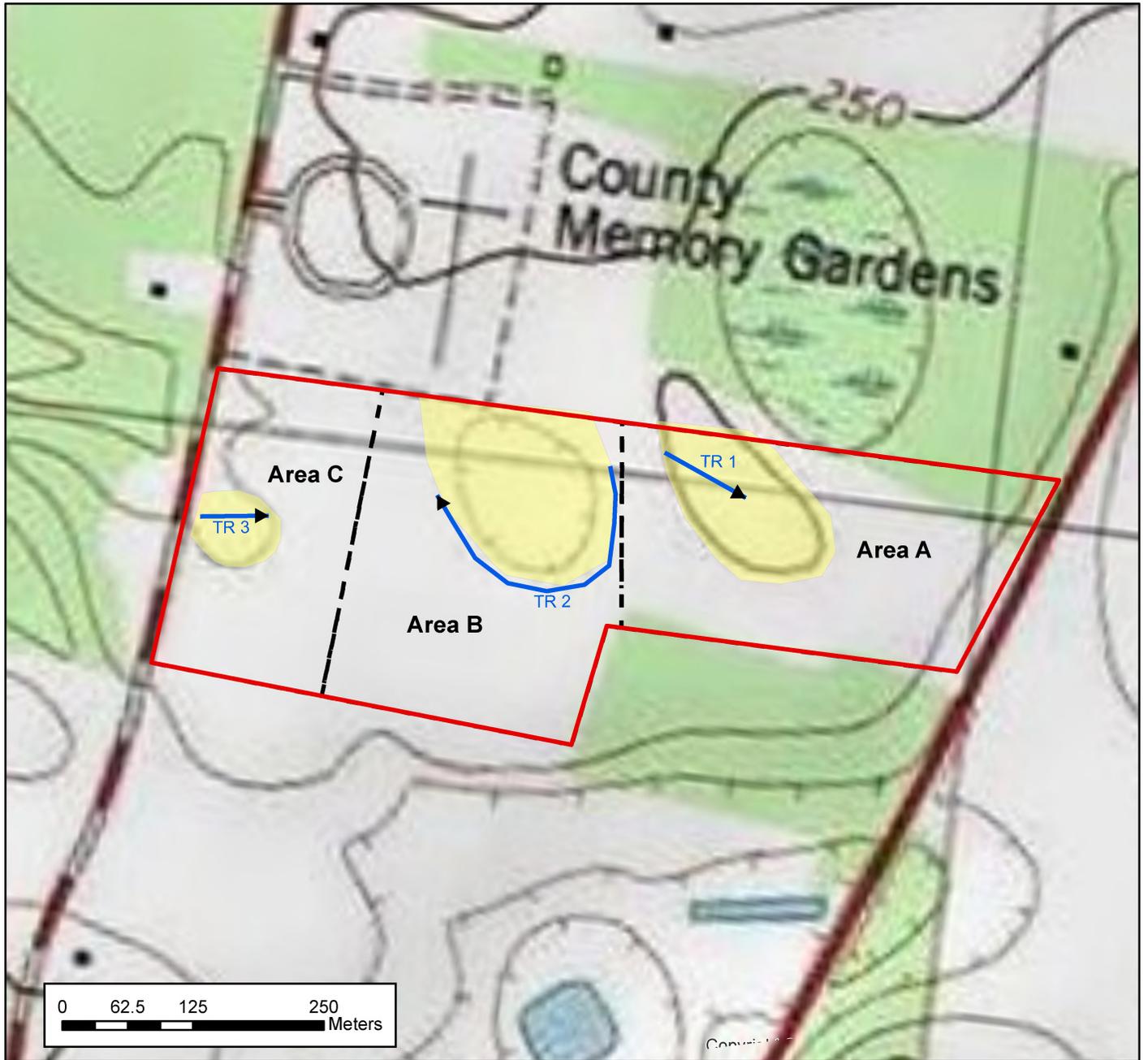
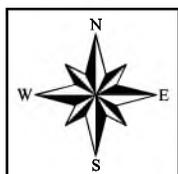
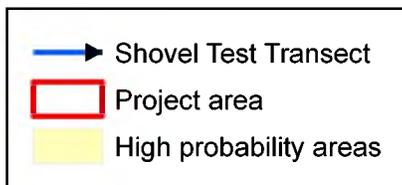
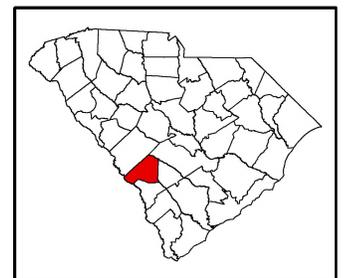


Figure 11. High probability areas and shovel test transects.
 Base Map: Blackville (1979) 7.5' USGS topographic quadrangle.



Project No.	73187225
Date:	December 2018
Drawn By:	SJH
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SHOVEL TEST TRANSECTS
 RICHARDSON SOLAR
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Figure
11

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Figure 12. Typical soil profile in Area A (STP 1-1).



Figure 13. Typical soil profile in Area B (STP 2-1).



Figure 14. Typical soil profile in Area C (STP 3-1).



Figure 15. Construction in Area A, facing east.



Figure 16. Construction in Area B, facing north.



Figure 17. Area C showing saturated ground surface conditions, facing west.

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Figure 18. Resource No. 0496, facing west.



Figure 19. Resource No. 0497, facing east.

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Figure 20. Resource No. 0498, facing east.



Figure 21. Resource No. 0499, facing west.

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Figure 22. Resource No. 0500, facing west.



Figure 23. Resource No. 0501, Barnwell County Memory Gardens, facing north.