APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 15, 2022

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-E JD Form 1 of 2; SAC-2021-00677 Perry Place
С.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): May 12, 2022
SEG A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the iew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
B.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters ² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: acres.
	c. Limits (boundaries) of jurisdiction based on: Pick List Elevation of established OHWM (if known):
	 Non-regulated waters/wetlands (check if applicable):³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain: One potentially jurisdictional wetland (Non-jurisdictional Wetland #1 / 1.63 acres) is located within the project area. This feature was determined to be non-jurisdictional due to the lack of descernable or traceable outfall connections to other Waters of the US. Although in itself the wetland met the criteria set forth in the 1987 Wetland Delieation Manual and the 2010 Coastal Plain Supplement, a site visit conducted on May 12, 2022, revealed that Non-

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

jurisdictional Wetland #1 is completely surrounded by soils that do not meet the hydrology criteria, and therefor disrupt any possible hydrologic connection to other Waters of the US. Non-Jurisdictional Wetland #1 was observed in the field to be a naturally occuring concave depression, surrounded by uplands. Based on these observed elevation changes between this feature and surounding uplands, any water contained within the wetland would be retained within the wetland boundary and percolate to an unknown depth. Because of topographic elevation differences in the surrounding uplands any potential hydrologic connections are inhibited.

There are six ponds located on site. Five of the ponds (non-jurisdictional features (ponds) #5-#9) were constructed/excavated, based on historic aerials, sometime between 2003 and 2005 in an area determined to be uplands under Approved Jurisdictional Determination (81-99-1186 issued August 25, 1999), therefore these features are determined to be non-jurisdictional.

Non-jurisdictional feature (pond) #10 was determined to have been constructed in what historically was determined to be wetlands (see 81-99-1186 issued August 25, 1999 and Unauthorized Activity investigation SAC-2011-01198). Approved Jurisdictional determinations are only valid for 5 years. AJD 81-99-1186 issued August 25, 1999, expired in 2004. Changes in the surrounding development and stormwater drainage modifications on adjacent tracts appear to have changed site conditions as such that this feature is not situated in wetlands. Based on current site conditions observed in the field on May 12, 2022, this feature was determined to be completely surrounded by soils that do not meet the hydrology criteria, and therefore disrupt any possible hydrologic connection to other Waters of the US. No discernable or traceable outfall to other waters of the U.S. was idnetified.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

(i)	Wat Drai Ave	teral Area Conditions: tershed size: Pick List tinage area: Pick List trage annual rainfall: inches trage annual snowfall: inches
(ii)		Relationship with TNW: ☐ Tributary flows directly into TNW. ☐ Tributary flows through Pick List tributaries before entering TNW. Project waters are Pick List river miles from TNW. Project waters are Pick List river miles from RPW. Project waters are Pick List aerial (straight) miles from TNW. Project waters are Pick List aerial (straight) miles from RPW. Project waters are Pick List aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW ⁵ :
	(b)	Tributary stream order, if known: General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
		Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Pick List Tributary gradient (approximate average slope): %
	(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:
		Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

		☐ sediment deposition ☐ multiple observed or predicted flow events ☐ water staining ☐ abrupt change in plant community ☐ other (list): ☐ Discontinuous OHWM. 7 Explain:
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:
	(iii)	Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: Identify specific pollutants, if known:
	(iv)	Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
2.	Cha	aracteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	Physical Characteristics: (a) General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
		(b) General Flow Relationship with Non-TNW: Flow is: Pick List. Explain: Surface flow is: Pick List Characteristics:
		Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:
		(c) Wetland Adjacency Determination with Non-TNW: Directly abutting Not directly abutting Discrete wetland hydrologic connection. Explain: Ecological connection. Explain: Separated by berm/barrier. Explain:
		(d) Proximity (Relationship) to TNW Project wetlands are Pick List river miles from TNW. Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Chemical Characteristics: Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Identify specific pollutants, if known:

⁷Ibid.

	(iii) Biological Characteristics. Wetland supports (check all that apply):
	Riparian buffer. Characteristics (type, average width):
	☐ Vegetation type/percent cover. Explain:
	Habitat for:
	Federally Listed species. Explain findings:
	Fish/spawn areas. Explain findings:
	Other environmentally-sensitive species. Explain findings:
	Aquatic/wildlife diversity. Explain findings: .
3.	Characteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List Approximately () acres in total are being considered in the cumulative analysis.
	For each wetland, specify the following:
	<u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u>
	Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

2. RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale	
tributary is perennial: Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each ye jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that seasonally:	
Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .	
 Non-RPWs⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. 	nt nexus with a
Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .	
 Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and ration indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland directly abutting an RPW: Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland 	is is that tributary is
abutting an RPW: Provide acreage estimates for jurisdictional wetlands in the review area: acres.	nd is directly
Trovide acreage estimates for jurisdictional wettands in the review area.	
5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data conclusion is provided at Section III.C.	
Provide acreage estimates for jurisdictional wetlands in the review area: acres.	
6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data support conclusion is provided at Section III.C.	
Provide estimates for jurisdictional wetlands in the review area: acres.	
7. Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).	

 $^{^8} See$ Footnote # 3. 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

Е.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.
upl	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above): There are six ponds located on site. Five of the ponds (Non-jurisdictional features ands) #5-#9) were constructed/excavated, based on historic aerials, sometime between 2003 and 2005 in an area determined to be ands under Approved Jurisdictional Determination (81-99-1186 issued August 25, 1999), therefore these features are determined to non-jurisdictional.
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: Pond #10 here since it was excavated from previous wetlands Other non-wetland waters: acres. List type of aquatic resource: Wetlands: 1.63 acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
SEC	CTION IV: DATA SOURCES.
A.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: The site is depicted on the drawing prepared by Southern Palmetto Environmental titled, "Wetland Determination / Perry Place Site (36.99 +/- ac) / 17 TMS#'s (see side note) / Horry County, South Carolina," dated May 18, 2022. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

	☐ USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name: 1:24k Nixonville Quad; USGS topographic maps depict the project
	area as vegetated uplands that do not contain any blue line features or other symbols that would typically represent a WOUS.
	USDA Natural Resources Conservation Service Soil Survey. Citation: USDA-NCSS SSURGO and STATSGO digital soil
	survey products depict the project area as being comprised of the following soil types: Lynn Haven sand a poorly drained hydric
	soil and Leon fine sand a poorly drained -hydric soil, and Pokomoke fine sandy loam, a poorly drained hydric soil.
	National wetlands inventory map(s). Cite name: PSS3/4/B. NWIs depict the site as containing open water features and
	saturated Palustrine Scrub Shrub wetlands.
	State/Local wetland inventory map(s):
	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): Google Earth Aerial Imagery from 2003, 2005, and 2021 and SCDNR Near Infrared
	2006, ESRI base layer imagery
	or 🔀 Other (Name & Date): Site photos submitted by the agent titled "Representative Photos of the Tract / Perry
	Place Tract," and dated December 7, 2020. Site photos taken by the Corps during a site visit conducted on May 12, 2022.
	Previous determination(s). File no. and date of response letter: Approved Jurisdictional Determination 81-99-1186 issued
	August 25, 1999.
	Applicable/supporting case law:
_	Applicable/supporting scientific literature: .
\boxtimes	Other information (please specify): USGS 3D Elevation Program (3DEP) Bare Earth DEM Dynamic service

B. ADDITIONAL COMMENTS TO SUPPORT JD: This form addresses 1 isolated wetland and six non-jurisdictional ponds, located within a 36.99 acre site. There is no known information to show that any of the aquatic resources documented on this form support a link to interstate or foreign commerce. There is no known information to suggest that these features are or may be used by interstate or foreign travelers for recreation or other purposes; produces fish or shellfish that could be taken and sold in interstate or foreign commerce or used for industrial purposes by industries in interstate or foreign commerce. The wetlands were determined to not be a WOTUS and not to be jurisdictional under the CWA.

Upland areas identified in this delineation did not exhibit indicators of hydrology and/or hydric soils during the Corps site visit conducted May 12, 2022 (nor were indicators of hydrology or hydric soils documented in on the data forms dated December 7, 2020, submitted by South Palmetto Environmental) and therefore these areas do not meet the three parameters required for identification of a wetland as outlined in the Corps 1987 Manual and Coastal Plain Supplement.

Form 2 of this determination addresses 3 jurisdictional wetlands.

APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

Α.	REPORT COMPLETION DATE FOR APP	ROVED JURISDICTIONAL DETERMINATION (JD): July 15, 2022
----	--------------------------------	--

	Perry Place	R: CESAC-RD-E JD Form 2 of 2; SAC-2021-00677 Per	DISTRICT OFFICE, FILE NAME, AND NUMBER: CI	В.
--	-------------	---	--	----

В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-E JD Form 2 of 2; SAC-2021-00677 Perry Place
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: ☐ Field Determination. Date(s): May 12, 2022
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	we area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	 b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: Wetland 2 - 4.8 acres + Wetland 3 - 1.17 acres + Wetland 4 - 1.61 acres = 7.58 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
	 Non-regulated waters/wetlands (check if applicable):³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Six non jurisdictional ponds and one isolated non jurisdictional wetland are documented on Form 1 of 1 of this determination.

SECTION III: CWA ANALYSIS

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Waccamaw River.

Summarize rationale supporting determination: Report No. 7 of the U.S. Army Corps of Engineers 1977 Navigability Study: The Corps presently classifies the Waccamaw River as a "Navigable water of the U.S." between its mouth at Winyah Bay near Georgetown South Carolina to Lake Waccamaw (R.M. 140).

Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 136,304acres Drainage area: 1900 acres Average annual rainfall: 52 inches Average annual snowfall: 0-1 inch

(ii) I

Phy	sical Characteristics:
a)	Relationship with TNW:
	Tributary flows directly into TNW.
	Tributary flows through Pick List tributaries before entering TNW.
	Project waters are 5-10 river miles from TNW.
	Project waters are 1-2 river miles from RPW.
	Project waters are 2-5 aerial (straight) miles from TNW.
	Project waters are 1-2 aerial (straight) miles from RPW.
	Project waters cross or serve as state boundaries. Explain: Project waters do not cross or serve as state boundaries.

Identify flow route to TNW5: The pRPW flows directly into the Waccamaw River

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	Tributary stream order, if known: The tributary is a 3 rd order stream.
(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: A review of aerial photography indicates that there
may be some	impounding of the feature due to several road crossings.
	Tributary properties with respect to top of bank (estimate): Average width: 25 feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Tributaries in this watershed are gradient, low velocity and therefore do not experience high levels of erosion and would be considered stable Presence of run/riffle/pool complexes. Explain: Tributary geometry: Meandering Based on a review of USGS topo maps and aerial photographs the pRPW is low lying drainage area and has sinuosity.
aerial photog perennial RP supports an a the Waccama on LiDAR m wetlands, and conditions.	Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Based on observations of this tributary from a bridge along Highway 544, a review of graphs, USGS topographic survey information, NHD, National Wetlands Inventory and aerial photographs, the PW, is confined within a bed and bank and has a continuous OHWM. It is situated in a naturally low-lying area and approximately 50-100-foot-wide riparian corridor. The tributary follows a declining gradient and flows directly into aw River. The pRPW is depicted in USGS topographic maps as a solid blue line water feature and is clearly defined aps and in aerial photographs. The relevant reach of this pRPW receives run off from approximately 1900 acres. Other information on duration and volume: The pRPW receives flow from several smaller tributaries, surrounding doverland sheet flow. This tributary was determined to have flow at least 90% of the year under normal Surface flow is: Discrete and confined. Characteristics: Based on observations of the pRPW from a Bridge on SC the water within this tributary is confined within the bed and banks of the tributary.
Ingilway 511	Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. Fxplain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by:

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

	☐ oil or scum line along shore objects ☐ fine shell or debris deposits (foreshore) ☐ physical markings/characteristics ☐ tidal gauges ☐ other (list):	 □ survey to available datum; □ physical markings; □ vegetation lines/changes in vegetation types. 	
Ch Ex co sec rec co Th Ider potential exis manipulation highways and other chemic	explain: This is a blackwater system, characterized by concentration conditions. Although dissolved oxygen even in blackwater systems and were considered nature ecreational uses are fully supported; however, there a concentration and increasing trends five-day biochem here is a significant decreasing trend in pH. entify specific pollutants, if known: This watershed is constant of the soil, which creates increased amounts of susted directly from urban areas provides the potential for	excursions occurred, they were typical of values ral, not standards violations. Aquatic life and are significant decreasing trends in dissolved oxygen ical oxygen demand, turbidity, and total nitrogen concentred comprised of 19.6 % agricultural and 21.9 % urban land. To izers to enter the pRPW. This type of land use requires regioned sediments within downstream tributaries. Run off for increased fertilizers and fecal coliform as well as oils and llutants have the potential to effect dissolved oxygen levels	ration. The gular from d
an approxim filtering out	nately 50-100' wide riparian corridor. This riparian a pollutants, providing essential habitat, slowing flood	th): Based on a review of aerial photographs the pRPW sup zone contributes to the overall health of the aquatic system	by
	☐ Federally Listed species. Explain findings:		
	☐ Fish/spawn areas. Explain findings: ☐ Other environmentally-sensitive species. Explain	findings	
		nectivity of Streams and Wetlands to Downstream Waters:	: A
Protection Agency intermittent streat different habitats network-both long adverse condition streams also provide habitat for provide habitat for that fall into them as food resources column and becondincrease invertebrian	hesis of the Scientific Evidence" prepared by the Officy, for organisms capable of significant upstream most ams, can increase both the amount and quality of hales for different resources (e.g., food, spawning habitate agitudinally and laterally-over their life cycles. For example, enabling organisms to persist and recolonize downwide food resources to downstream waters: as Progan for the forest uplan for diverse and abundant stream invertebrates and some the forest uplan for diverse and abundant stream invertebrates can be a for downstream organisms. Many fish feed on drifting the part of the local benthic invertebrate assemblage or at a mortality significantly, suggesting that most drift downstream drift of stream invertebrates and the company that most drift downstream drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of stream invertebrates and the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the company that most drift of the local benthing the lo	fice of Research and Development U.S. Environmental overwent, headwater streams, including ephemeral and bitat available to those organisms. Many organisms requires, overwintering habitat), and thus move throughout the rivexample, headwater streams can provide refuge habitat und instream areas once adverse conditions have abated. Headwar and Moldenke (2002) state, " headwater streams are the dotner to the ocean." Headwater streams and small seasonal RF erve as collection areas for terrestrial and riparian inverted transported downstream with water flow and ultimately sing insects, and these organisms can also settle out of the way in downstream waters. Drift, however, has been shown to difting organisms are exported downstream in the suspendent contribution of terrestrial and riparian invertebrates to over	e ver der water de PWs brates serve vater
2. Charact	teristics of wetlands adjacent to non-TNW that flow	directly or indirectly into TNW	
	ysical Characteristics: General Wetland Characteristics: Properties: Wetland size: 7.58 + acres Note: Wetlands	3 and 4 are part of a larger wetland system that continues	off
site. The over	erall size of this wetland is unknown.		
	levelopment however they are still providing functio	re partially impaired due to ditching and surrounding ons such as enhancing wildlife diversity, acting as a catch ba	
	iment and pollution from the surrounding uplands, so od attenuation, and flow maintenance functions	supporting the downstream food web, and providing nutrie	int
boundaries.		xplain: The project wetland does not cross or serve as state	
(b)	General Flow Relationship with Non-TNW:	roject waters into the pRPW is via a system non-jurisdiction	onal
Ditches .	1 low is. Explicate flow. Explain. Flow from the pi	To just waters into the pixt we is via a system non-jurisdiction	viiai

		Surface flow is: Discrete Characteristics: Flow		nto the pRPW is via a system n	on-jurisdictional Ditches .
		Subsurface flow: Unknow Dye (or other) test			
	(c)	Wetland Adjacency Deter ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland h ☐ Ecological connec ☐ Separated by bern	nydrologic connection. Exp tion. Explain: .	olain: .	
	(d)	Flow is from: Wetland to	ver miles from TNW. ial (straight) miles from TN navigable waters.	NW. he <mark>100 - 500-year</mark> floodplain.	
potentia manipul highway other ch	Ider I existation of an and emic	characteristics; etc.). Exp adjacent to a residential de ntify specific pollutants, if k sts for herbicides and other of the soil, which creates d directly from urban area als used in vehicles and or	lain: The wetland within the evelopment. Saturation was known: This watershed is or pollutants, such as fertil increased amounts of sus as provides the potential for lawns. These types of po	pended sediments within down or increased fertilizers and feca	red forested wetland bounded loration was observed al and 21.9 % urban land. The type of land use requires regular stream tributaries. Run off from
(iii) Wet.		logical Characteristics. We Riparian buffer. Characte Vegetation type/percent co	ristics (type, average width		predominantly FAC and FAC
	⊠		lain findings: -sensitive species. Explain sity. Explain findings: Thi	s wetland system enhances wild	llife diversity through timber
	wetla	eristics of all wetlands adj and(s) being considered in t M data)		any) 20 (Note: This analysis is an e	stimation based on NWIs and
	App	proximately (233.92) acres	in total are being consider	ed in the cumulative analysis.	
	For	each wetland, specify the fe	ollowing:		
		Directly abuts? (Y/N) N N N N N N N N N N N N N	Size (in acres) 1.72 .28 3.61 .72 .35 75 8 13	Directly abuts? (Y/N) N N N N N N N N N N N N N N N N N N	Size (in acres) 1.65 1.17 1.62 15 7 70 7 4
		N N	5 4.8	N	14

Summarize overall biological, chemical and physical functions being performed: The similarly situated wetlands contribute vital biological, chemical, and physical functions to the downstream TNW. This wetland system enhances

wildlife diversity, acts as catch basins filtering sediment and pollution from the surrounding uplands, supports the downstream food web, and provides nutrient fixation, flood attenuation, and flow maintenacne functions. (Wetlands adjacent to the tributary were determined by using a combination of NWI maps and the wetlands delineated as part of this determination).

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The pRPW that is assessed in this form, along with all similarly situated adjacent freshwater wetlands are collectively performing functions consistent with the following: Biologically, wetlands adjacent to the pRPW include depressional wetlands. As such a variety of biological functions are being performed which include providing breeding grounds and shelter for aquatic species and foraging areas for wetland dependent species. These wetlands and the adjacent pRPW are essential in providing organic carbons in the form of their collective primary productivity to downstream waters, resulting in the nourishment of the downstream food web. Chemically, the pRPW and adjacent wetlands are providing the important collective functions of removal of excess nutrients into the downstream TNW. These pollutants, which are contributed to by runoff from surrounding uplands are prevented from being discharged downstream due to suspended sediments and other pollutants being retained within the wetlands. The low velocity and gradient of the pRPW also contribute to the removal of pollutants because the suspended pollutants have time to settle out of the water. This reduces nitrogen and phosphorous loading downstream and effectively prevents oxygen depletion that can result from eutrophication. Physically, the pRPW and adjacent wetlands are collectively performing flow maintenance functions, including retaining runoff inflow and storing rainwater, temporarily. Flow maintenance results in the reduction of downstream peak flows (discharge and volume), helping to maintain seasonal flow volumes and reducing the frequency of over bank events which flood adjacent properties. Increased water velocity also increases the amount of sediments and other. pollutants in the TNW. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of the Waccamaw River it has been determined that there is a significant nexus between the relevant reach of the tributary and all adjacent wetlands to the downstream TNW.
- D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: The aquatic resources that are the subject of this form flow into an offsite tributary that was determined to have perennial flow based on a review of NHD, USGS topographic maps, NWIs, Aerial Photographs, and Previous Jurisdictional Determinations on adjacent tracts of land. NHD depicts the tributary as a perennial stream. NWIs depict the tributary as R2UBH (Riverine Lower Perennial). The tributary is depicted as a solid blue line feature on USGS topographic maps. A solid blue line is the symbol typically used to represent a tributary with perennial flow. A defined sinous channel containing open water can be seen in aerial photographs leading back to the 1990s). This tributary flows directly into the Waccamaw River (Approx. 3 river miles downstream).
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacen and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: 7.58 acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

 $^{^8 \}rm See$ Footnote # 3. $^9 \, \rm To$ complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

	Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): NOTE: NON-JURISDICTIONAL FEATRUES ARE DOCUMENTED ON FORM 1 OF 2 OF THIS DETERMINATION If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: Pond #10 here since it was excavated from previous wetlands Other non-wetland waters: acres. List type of aquatic resource: Wetlands:
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
SE	CTION IV: DATA SOURCES.
Α.	SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: The site is depicted on the drawing prepared by Southern Palmetto Environmental titled, "Wetland Determination / Perry Place Site (36.99 +/- ac) / 17 TMS#'s (see side note) / Horry County, South Carolina," dated May 18, 2022. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps:

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

	Corps navigable waters' study: .
	U.S. Geological Survey Hydrologic Atlas: .
	USGS NHD data.
	USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name: 1:24k Nixonville Quad; USGS topographic maps depict the project
	rea as vegetated uplands that do not contain any blue line features or other symbols that would typically represent a WOUS.
	USDA Natural Resources Conservation Service Soil Survey. Citation: USDA-NCSS SSURGO and STATSGO digital soil
	rvey products depict the project area as being comprised of the following soil types: Lynn Haven sand a poorly drained hydric
	il and Leon fine sand a poorly drained -hydric soil, and Pokomoke fine sandy loam, a poorly drained hydric soil.
	National wetlands inventory map(s). Cite name: PSS3/4/B. NWIs depict the site as containing open water features and
	turated Palustrine Scrub Shrub wetlands.
	State/Local wetland inventory map(s):
	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: 🔯 Aerial (Name & Date): Google Earth Aerial Imagery from 2003, 2005, and 2021 and SCDNR Near Infrared
	06, ESRI base layer imagery
	or 🛛 Other (Name & Date): Site photos submitted by the agent titled "Representative Photos of the Tract / Perry
	ace Tract," and dated December 7, 2020. Site photos taken by the Corps during a site visit conducted on May 12, 2022.
	Previous determination(s). File no. and date of response letter: Approved Jurisdictional Determination 81-99-1186 issued
	ugust 25, 1999.
	Applicable/supporting case law:
	Applicable/supporting scientific literature:
\boxtimes	Other information (please specify): USGS 3D Elevation Program (3DEP) Bare Earth DEM Dynamic service
	care mornance (prease specify). esses es sievada 11 og. am (ossi) sare sarti service

B. ADDITIONAL COMMENTS TO SUPPORT JD: This form addresses 3 freshwater wetlands, located within a 36.99 acre site, that were determined to be adjacent to an offsite pRPW via a series of storm water drainage ditches.. Wetlands addressed in this form are determined to have a significant nexus to the downstream TNW, as discussed in Section IIIC above.

Wetland boundaries were verified during the site visit conducted on May 12, 2022, based on the criteria set forth by the 1987 Wetland Delineation Manual. According to Antecedent Rainfall Calculator data conditions on site were drier than normal during the site visit. Soils on site were sandy and lacked indicators of hydrology within the upper 24 inches which is required for conditions considered to be drier, outside of normal rainfall. Uplands on site contained soils with low chroma and value however soils contained greater than 30% uncoated sand grains and lacked indicators of hydrology to a depth of 24 inches. The Wetlands onsite were depressional areas that were sparsely vegetated. There was a notable difference in topography and vegetative communities between the uplands and wetlands. Wetland soils were low chroma and value and saturation were observed at approximately 20 inches.

A large drainage ditch that runs the entire length of the north/west property boundary. This ditch was constructed by Horry County circa 2012 for the purpose of improving drainage along west perry road. This ditch is approximately 8-10 feet deep and wide. The lateral drainage effect of this feature likely accounts for the changes in wetland size and acreage between the current Delineation and the previous delineation (Approved JD 81-99-01186 issued on August 25, 1999).

Form 1 of this determination addresses 1 non-jurisdictional wetland and 6 non-jurisdictional ponds.