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.

1 111	s form should be completed by following the instructions provided in Section IV of the 3D Form instructional Guidebook.
SE	CTION I: BACKGROUND INFORMATION
A.	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): November 7, 2022
	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-S, Tommy Daniel's Tract, SAC-2021-01119, JD Form 1 of 5 lated)
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: A 787.91-acre site located off Pinecrest Drive. State: South Carolina County/parish/borough: Berkeley City: Moncks Corner Center coordinates of site (lat/long in degree decimal format): Lat. 33.120556°, Long80.084722°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Tillmans Branch
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A Name of watershed or Hydrologic Unit Code (HUC): 03050201, Cooper River Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: September 6, 2022 ☐ Field Determination. Date(s): September 3, 2021
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	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):

2. 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: The review area contains Isolated Wetlands totaling 23.12 acres (E – 0.33 acre, M – 5.53 acres, N 4.26 acres, R – 0.81 acre, S – 0.74 acre, and G – 1.38 acres). In addition to utilizing remote resource tools (to include USGS Topographic map, LIDAR, and historic aerial photographs found on Google Earth Pro), a field inspection was completed on September 3, 2021. The Isolated Wetlands are within depressional pockets within the landscape and are

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.

surrounded by uplands. The wetlands have no apparent physical, chemical, or biological connection to waters of the U.S., and have no apparent surface or shallow subsurface hydrologic connections to waters of the U.S. The wetlands also have no connection to interstate or foreign commerce.

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

(i) General Area Conditions:

Watershed size: Pick List
Drainage area: Pick List
Average annual rainfall: inches
Average annual snowfall: inches

(ii) Physical Characteristics:

(a) 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 cross or serve as state boundaries. Explain:

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

	Identify flow route to TNW ⁵ : Tributary stream order, if known:
(b)	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 destruction of terrestrial vegetation the presence of wrack line vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining 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:
	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:

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.

(iii)

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.

		Iden	tify specific pollutants, if known:
	(iv)		ogical 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	racte	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	(a)	Sical Characteristics: General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
		, ,	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: Wetland Adjacency Determination with Non-TNW: Directly abutting Not directly abutting Discrete wetland hydrologic connection. Explain: Ecological connection. Explain: Separated by berm/barrier. Explain:
		, ,	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)	Char	mical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: tify specific pollutants, if known:
	(iii)		ogical 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.	Cha	All v	eristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis: Pick List roximately () acres in total are being considered in the cumulative analysis.

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

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):

l.	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: .
	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 adjacent 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: 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.9 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).
SUC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH 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:
Ide	ntify water body and summarize rationale supporting determination:

E.

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

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.

	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): ☐ 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 <u>sole</u> 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: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: Isolated Wetlands totaling 23.12 acres (E – 0.33 acre, M – 5.53 acres, N 4.26 acres, P – 2.01 acre, Q – 5.98 acres, R – 0.81 acre, S – 0.74, F – 0.88 acre, G – 1.38 acres, and H – 1.2 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.
	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: Survey plat entitled "Exhibit Showing the Wetlands Within A 787.91 Acre Tract Being Berkeley County TMS# 195-00-00-033" sheets 1-4 of 4 prepared by Thomas & Hutton dated April 12, 2021 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. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: MOUNT HOLLY & MONCKS CORNER, SC USGS QUADRANGLE MAP. USDA Natural Resources Conservation Service Soil Survey. Citation: USDA Soil Survey Map. National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Aerial photography from Google Earth Pro created by the Corps. or ☑ Other (Name & Date): Ground Photos from the wetland delineation completed by the agent January 21, 2021.
	Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): LIDAR created by the Corps.

B. ADDITIONAL COMMENTS TO SUPPORT JD: Based on the above information it has been determined by this office that the isolated wetlands within the review area are non-jurisdictional and not subject to regulation under Section 404 of the Clean Water Act.

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

I nis	s form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.
SEC	CTION I: BACKGROUND INFORMATION
A.	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): November 7, 2022
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-S, Tommy Daniel's Tract, SAC-2021-01119, JD Form 2 of 5
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: A 787.91-acre site located off Pinecrest Drive. State: South Carolina County/parish/borough: Berkeley City: Moncks Corner Center coordinates of site (lat/long in degree decimal format): Lat. 33.120556°, Long80.084722°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Tillmans Branch
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A Name of watershed or Hydrologic Unit Code (HUC): 03050201, Cooper River Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: September 6, 2022 ☐ Field Determination. Date(s): September 3, 2021
	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 ew 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:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re 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 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: 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: The review area contains ditches and upland excavated borrow pits. The ditches are not relocated tributaries and do not have seasonal or perennial flow. The ditches were created to drain the wetlands and surrounding uplands within the review area. The ditches are located on a supplemental figure in the file. The upland excavated borrow pits are located on the delineation figure for this AJD. The upland excavated borrow pit located in the northwest portion of the review area consists of open water and is approximately 30 acres in size. The upland excavated borrow pit

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.

located in the northwest portion of the review area is approximately 117 acres in size (based on the reclamation map), consists predominantly of open water, and is actively surfaced mined for borrow material (SCDHEC Mine Operating Permit #1-00743). Based on a desktop review the two borrow pits were constructed in the uplands for mining operations and have been maintained under the mining reclamation plan or actively mined under the local mining permit. As stated in the Preamble to the November 13, 1986, Regulations found on page 41217 (Federal Register vol. 51 No. 219) "waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and resulting body of water meets the definition of waters of the United States" are generally not considered waters of the U.S. Therefore, the ditches and upland excavated borrow pits are non-jurisdictional features that are not subject to regulation under Section 404 of the Clean Water Act.

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 waterbody⁴ 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

Watershed size:	Pick L	ıst
Drainage area:	Pick L	List
Average annual ra	infall:	inches
Average annual sr	nowfall:	inches
Physical Charact	eristics:	
•		
(a) icelationship	WILL TIN W.	<u>-</u>
	Average annual ra Average annual sr Physical Charact	Drainage area: Pick I Average annual rainfall: Average annual snowfall: Physical Characteristics:

General Area Conditions:

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

	☐ Tributary flows through Pick List tributaries before entering TNW.
	Project waters are Project List river miles from RPW. Project waters are Project List aerial (straight) miles from RPW. Project waters are Project List aerial (straight) miles from RPW. Project waters are waters are water are water are water are water and water are wate
	Identify flow route to TNW ⁵ : Tributary stream order, if known:
(b)	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:
	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 destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting se
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Oil or scum line along shore objects fine shell or debris deposits (foreshore) Mean High Water Mark indicated by: survey to available datum; physical markings;

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. ⁷Ibid.

			☐ physical marking☐ tidal gauges☐ other (list):	gs/characteristics	vegetation lines/changes in vegetation types.
	(iii)	Characterize Explain			ed, oily film; water quality; general watershed characteristics, etc.)
	(iv)	Riparia Wetlan Habitan Fed	Characteristics. Characteristics of fringe. Characteristic for: lerally Listed species. h/spawn areas. Explain ler environmentally-sequatic/wildlife diversity	istics (type, average witcs: Explain findings: a findings: nsitive species. Expla	dth):
2.	Cha	aracteristics	of wetlands adjacent	to non-TNW that flo	w directly or indirectly into TNW
	(i)	(a) Genera Proper We We	naracteristics: al Wetland Characterist ties: tland size: acres tland type. Explain: tland quality. Explain wetlands cross or serv	I: .	Explain: .
		Flow is Surface Cha Subsur	Il Flow Relationship w s: Pick List. Explain: e flow is: Pick List aracteristics: face flow: Pick List. I Dye (or other) test per	Explain findings:	
		☐ Dir ☐ Not ☐ ☐	d Adjacency Determined Adjacency Determined to the Adjacency Determined to the Adjacency Discrete wetland hydrogen Separated by berm/bacenty (Relationship) to T	rologic connection. Ex n. Explain: . arrier. Explain: .	
		Project Project Flow is	wetlands are Pick List waters are Pick List from: Pick List.	st river miles from TN aerial (straight) miles	
	(ii)	Characterize charact	Characteristics: e wetland system (e.g., teristics; etc.). Explain cific pollutants, if know	n: .	rown, oil film on surface; water quality; general watershed
	(iii)	Riparia Vegeta Habitat Fed	Characteristics. Wetlern buffer. Characterist tion type/percent cover the for: lerally Listed species. In the provided and areas. Explain the environmentally-second control of the provided and	ics (type, average wider. Explain: . Explain findings: . findings: . nsitive species. Expla	h): .

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 con	nsidered in the	e cumulative analysis	S.	
For each wetland	, specify th	e following:				
Directly abuts? (<u>Y/N)</u>	Size (in acres)		Directly abuts? (Y/N	<u>D</u>	Size (in acres)
Summarize overa	ll biologica	al, chemical and pl	hysical function	ons 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):

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: 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 adjacent 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: 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.	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).
DE	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH 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:

E.

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

	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): 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): See Section II.B.2.
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> 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: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: 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: Survey plat entitled "Exhibit Showing the Wetlands Within A 787.91 Acre Tract Being Berkeley County TMS# 195-00-00-033" sheets 1-4 of 4 prepared by Thomas & Hutton dated April 12, 2021 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. USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: MOUNT HOLLY & MONCKS CORNER, SC USGS QUADRANGLE MAP. USDA Natural Resources Conservation Service Soil Survey. Citation: USDA Soil Survey Map. National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	National Geodectic Vertical Datum of 1929

ean Water Act.			

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.

SEC A.	CTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): November 7, 2022
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-S, Tommy Daniel's Tract, SAC-2021-01119, JD Form 3 of 5
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: A 787.91-acre site located off Pinecrest Drive. State: South Carolina County/parish/borough: Berkeley City: Moncks Corner Center coordinates of site (lat/long in degree decimal format): Lat. 33.120556°, Long80.084722°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Tillmans Branch Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Goose Creek Goose Creek is a navigable waters subject to the ebb and flow of the tide. Name of watershed or Hydrologic Unit Code (HUC): 0305020107, Cooper River/Charleston Harbor Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: September 6, 2022 Field Determination. Date(s): September 3, 2021
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	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 ew 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.
	re 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 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: 4,255 linear feet: 4 width (ft) and/or 0.4 acres. Tributary 1 – 1,775 lf and Tributary 2 – 2,480 lf Wetlands: Totaling 144.23 acres The below wetlands flow into Tillman Branch Q – 5.98 acres, P – 2.01 acres, F – 0.88 acre, B – 118.17 acres, C – 4.02 acres, and D – 13.71 acres
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual and Established by OHWM. Elevation of established OHWM (if known): N/A.
	2. 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:

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.

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.

TNW

Identify TNW:

Summarize rationale supporting determination:

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

Onsite RPW Tributary1 and 2.

The two tributaries are channelized ditches that were constructed in what was wetland in the past. The two tributaries have seasonal flow and therefore are RPW. Furthermore, the two tributaries provide relatively permanent flow from jurisdictional waters of the U.S. to the downstream TNW.

(i) General Area Conditions:

Watershed size: 206,457 acres (HUC 0305020107, Cooper River/Charleston Harbor)

Drainage area: 450 acres

Average annual rainfall: 51 inches Average annual snowfall: N/A

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

Project waters are 10-15 river miles from TNW.

Project waters are Project waters are 5-10 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial (straight) miles from RPW.

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

Project waters cross or serve as state boundaries. Explain: N/A.

Identify flow route to TNW⁵: Onsite Tributary 1 & 2 flow offsite directly into Tillman Branch. Tillman Branch flows through Gants Mill Branch Tributary and then Laurel Swamp into Daisy Swamp into Huckhole Swamp before flowing into Goose Creek (TNW). The drainage area also flows into Brick Bound Swamp and into Foster Creek a TNW. However, Goose Creek is the predominant drainage and was therefore identified as the TNW for this review. Tributary stream order, if known: N/A.

(b)	General Tributary Characteristics (check all that apply): (Tributaries 1 and 2.) Tributary is: Natural Artificial (man mode). Evaluin The two tributaries are charactered ditables that were constructed.
	Artificial (man-made). Explain: The two tributaries are channelized ditches that were constructed retland in the past. The two tributaries have seasonal flow and therefore are RPW. Furthermore, the two tributaries rely permanent flow from jurisdictional waters of the U.S. to the downstream TNW. Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: 3 feet Average depth: 2 feet Average side slopes: Vertical (1:1 or less).
	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: The two tributaries are stable. Presence of run/riffle/pool complexes. Explain: N/A. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 2%
(c)	Flow: (Tributaries 1 and 2) Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Unknown. Other information on duration and volume: Unknown.
	Surface flow is: Discrete and confined. Characteristics: The hydrologic flow is contained within a bed and bank.
	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. 7 Explain: ☐ Explain: ☐ 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:

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. ⁷Ibid.

	☐ tidal gauges ☐ other (list):
Ch	nemical Characteristics: paracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The water within the two tributaries was clear during the site visit. Entify specific pollutants, if known: There are no known pollutants.
(iv) Bio	ological 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: The tributaries provide a source of water for both aquatic and terrestrial wildlife. Fish and amphibians may utilize the stream during flow periods and terrestrial wildlife such as deer and raccoons may forage in the area.
2. Charac	teristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	A September 1 September 2 Sept
(b)	General Flow Relationship with Non-TNW:
series of non seasonally w Flo swales. The	ow is: Ephemeral flow . Explain: Wetland D shares a boundary with Tributary 1. Wetland F flows to Tributary 1 through a r-jurisdictional ditches and swales. The flow from Wetlands D and F to Tributary 1 likely occurs after rain events or then water flows out of the wetlands. Ow is: Ephemeral flow . Explain: Wetlands P and Q flow to Tributary 2 through a series of non-jurisdictional ditches and flow from Wetlands D and F to Tributary 2 likely occurs after rain events or seasonally when water flows out of the bough the non-jurisdictional ditches and swales to Tributary 2.
	Surface flow is: Discrete and confined Characteristics: The flow from Wetland D to Tributary 1 is discrete as the wetland and tributary share a border and he wetland can flow directly into the tributary. The flow from Wetland F to Tributary 1 is discrete and confined within the ional ditches and swales.
	rface flow is: Discrete and confined Characteristics: The flow from Wetlands P and Q to the Tributary 2 is discrete and confined within the non-l ditches and swales.
	Subsurface flow: Unknown. Explain findings: The wetlands contain flow after a rain event. Dye (or other) test performed:
	Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting (Jurisdictional Wetland D directly abuts Tributary 1. ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: Jurisdictional Wetlands P, Q, and F flow into a non-lditches and swales that flow directly into Tributary 2. ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
(d)	Proximity (Relationship) to TNW Project wetlands are 5-10 river miles from TNW. Project waters are 5-10 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 5 - 10-year 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: There was no flow or water in the wetlands at the time of the site visit. Identify specific pollutants, if known: No known pollutants.

(iii) Biol	ogical Characteristics. Wetland supports (check all that apply):
	Riparian buffer. Characteristics (type, average width):
\boxtimes	Vegetation type/percent cover. Explain: Scrub Shrub.
\boxtimes	Habitat for:
	Federally Listed species. Explain findings: .
	Fish/spawn areas. Explain findings:
	Other environmentally-sensitive species. Explain findings:
	Aquatic/wildlife diversity. Explain findings: The wetlands provide habitat for both aquatic and terrestrial wildlife.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis:5 Approximately 140.75 acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Wetland	Directly abuts? (Y/N)	Size (in acres)
Q	N	5.98
P	N	2.01
F	N	0.88
D	Y	13.71
В	Y	118.17

Summarize overall biological, chemical and physical functions being performed: See Section C below.

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: Jurisdictional Wetlands Q – 5.98 acres, P – 2.01 acres, F – 0.88 acres, and C – 4.02 acres are not directly abutting a RPW but have a surface hydrological connection to the downstream Tributary 1 and 2 via non-jurisdictional ditches and swales (see supplemental sketch in file). Jurisdictional Wetlands D – 13.71 acres and B – 118.17 acres directly abut Tributaries 1 and 2.

The scrub shrub wetlands which are similarly situated and adjacent (both directly abutting and non-abutting) to Tributaries 1 and 2 are collectively performing functions consistent with the following: Biological – wetlands adjacent to this RPW include depressional wetlands. As such, a broad variety of biological functions are being performed which include providing breeding grounds and shelter for aquatic species, foraging areas for wetland dependent species, and in particular, upstream floodplain wetlands provide important spawning areas for species that inhabit the main tributary channel as adults. These wetlands are essential in providing organic carbon to downstream waters, resulting in the nourishment of the downstream food web. Chemical – Wetlands in the review area are providing the important collective functions of removal of excess nutrients which are contributed by runoff from the surrounding uplands, reducing nitrogen and phosphorus loading downstream, and effectively preventing oxygen depletion that can result from eutrophication. Physical – Wetlands in the review area are collectively performing flow maintenance functions, including retaining runoff inflow and storing flood water temporarily. Flow maintenance results in the reduction of downstream peak flows (discharge and volume), helping to maintain seasonal flow volumes. This is particularly important in this watershed Tillmans Branch, located immediately downstream offsite, is a designated FEMA Floodway.

The review area has historically been mined for suitable fill material and is still undergoing mining activities. The surrounding area consists of similar mining activities, undeveloped forested areas, and residential development. At the downstream DHEC water quality station site located within Goose Creek (MD-114), aquatic life uses are not supported due to dissolved oxygen excursions. Significant decreasing trends in five-day biological oxygen demand, turbidity, and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are fully supported at this station site. There is a high potential for residential growth in the Town of Moncks Corner. The loss of the subject wetlands would result in the loss of filtered organic materials being transported downstream, a loss in flood water storage, and the loss of wildlife habitat.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of Goose Creek and the Cooper River, this office has determined that there is a Significant Nexus between the adjacent wetlands (abutting and non-abutting) to Tributaries 1 and 2, to Tillmans Drainage, and the downstream TNWs.

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:
	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: Tributaries 1 and 2 had surface flow, bed and bank, and OHW mark at the time of the site visit. The approximately 350 acre drainage with 144.77 acres of wetlands provide direct hydrological input to Tributaries 1 and 2. Th tributaries were constructed from a previously mapped wetland. The tributaries provide hydrological flow to the downstrea Tillman Branch and TNW Goose Creek.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 4,255 linear feet and 4 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: .

⁸See Footnote # 3.

4.	we tands directly abutting an Kr w that now directly or indirectly into 1 Nws.
	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: Jurisdictional Wetland $D-13.71$ acres shares a boundary and directly touches Tributary 1 with seasonal flow. Jurisdictional Wetland $B-118.17$ acres shares a boundary and directly touches Tributary 2 with seasonal flow.
	Provide acreage estimates for jurisdictional wetlands in the review area: 131.88 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 adjacent 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: Jurisdictional Wetlands $Q-5.98$ acres, $P-2.01$ acres, $P-2.01$ acres, and Wetland $P-2.02$ 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. ⁹ 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).
DE SU	OLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, CGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY ICH 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:
Ide	entify water body and summarize rationale supporting determination:
Pro	ovide 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.
NC	ON-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.

E.

F.

To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 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.

	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):
fac	ovide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR tors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (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.
	ovide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such
a fi	nding 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.
SECTION	ON IV: DATA SOURCES.
A. SUP	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
We	Herquested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Survey plat entitled "Exhibit Showing the stlands Within A 787.91 Acre Tract Being Berkeley County TMS# 195-00-00-033" sheets 1-4 of 4 prepared by Thomas & Hutton ed April 12, 2021.
	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. ☐ USGS 8 and 12 digit HUC maps.
\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name: MOUNT HOLLY & MONCKS CORNER, SC USGS QUADRANGLE
MA	
\boxtimes	
H	National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s):
Ħ	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	or 🔀 Other (Name & Date): Ground Photos from the wetland delineation completed by the agent January 21, 2021.
\exists	Previous determination(s). File no. and date of response letter: Applicable/supporting case law:
	Applicable/supporting scientific literature:
\boxtimes	Other information (please specify): LIDAR and Hill Shade created by the Corps.
B. ADI	DITIONAL COMMENTS TO SUPPORT JD: Based on the above information it has been determined by this office that Tributary

B. ADDITIONAL COMMENTS TO SUPPORT JD: Based on the above information it has been determined by this office that Tributary 1-1,775 lf, and Tributary 2-2,4800 lf, and Jurisdictional Wetlands Q-5.98 acres, P-2.01 acres, F-0.88 acre, P-118.17 acres, P-2.01 acres, and P-13.71 acres are jurisdictional aquatic resources subject to regulation under Section 404 of the Clean Water Act, but not subject to the Section 10 of the Rivers and Harbors Act.

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.

SEC A.	CTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): November 7, 2022
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-S, Tommy Daniel's Tract, SAC-2021-01119, JD Form 4 of 5
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: A 787.91-acre site located off Pinecrest Drive. State: South Carolina County/parish/borough: Berkeley City: Moncks Corner Center coordinates of site (lat/long in degree decimal format): Lat. 33.120556°, Long80.084722°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Tillmans Branch
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Goose Creek Goose Creek is a navigable waters subject to the ebb and flow of the tide. Name of watershed or Hydrologic Unit Code (HUC): 0305020107, Cooper River/Charleston Harbor Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: September 6, 2022 Field Determination. Date(s): September 3, 2021
	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 ew 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:
В. (CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re 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 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: Totaling 19.02 acres The below wetlands flow into Poplar Branch Jurisdictional Wetlands K – 1.29 acres and A - 17.73 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): N/A.
	 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:

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.

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 waterbody⁴ 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

Offsite Poplar Branch.

(i) General Area Conditions:

Watershed size: 206,457 acres
Drainage area: 310 acres
Average annual rainfall: 51 inch
Average annual snowfall: N/A

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through 2 tributaries before entering TNW.

Project waters are Project water

Identify flow route to TNW5:

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

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: N/A.

Identify flow route to TNW: Offsite Poplar Branch flows into Gants Mill Branch Tributary and then Laurel Swamp into Daisy Swamp into Huckhole Swamp before flowing into Goose Creek (TNW). The drainage area also flows into Brick

	Bound Swamp and into Foster Creek a TNW. However, Goose Creek is the predominant drainage and was therefore identified as the TNW for this review.
(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: Poplar Branch is a natural tributary that has been
impounded ne	ar the review area.
	Tributary properties with respect to top of bank (estimate): Average width: 4 feet Average depth: 3 feet Average side slopes: 2:1.
	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: Poplar Branch is stable. Presence of run/riffle/pool complexes. Explain: N/A. Tributary geometry: Meandering Tributary gradient (approximate average slope): 2 %
(c)	Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Year round flow in a typical year. Other information on duration and volume: Unknown.
Poplar Branch	Surface flow is: Discrete and confined. Characteristics: The hydrological flow is contained within the bed and banks of which can be seen on hillshade and lidar.
	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 destruction of terrestrial vegetation the presence of wrack line shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. Explain:

High Tide Line indicated by:

☐ tidal gauges ☐ other (list):

oil or scum line along shore objects

physical markings/characteristics

fine shell or debris deposits (foreshore)

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

Mean High Water Mark indicated by:

vegetation lines/changes in vegetation types.

survey to available datum;

physical markings;

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.

Tibid.

	(iii)	Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Since Poplar Branch is located offsite the tributary was not observed. However, the water in the tributary would be expected to have a clear color. Identify specific pollutants, if known: There are no known pollutants.
	(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:
wildlife. area.	Fish	Aquatic/wildlife diversity. Explain findings: Poplar Branch provides a source of water for both aquatic and terrestrial and amphibians may utilize the stream during flow periods and terrestrial wildlife such as deer and raccoons may forage in the
2.	Cha	racteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	Physical Characteristics: (a) General Wetland Characteristics: Properties: Jurisdictional Wetlands K and A Wetland size: 19.02 acres Wetland type. Explain: Scrub Shrub freshwater wetlands. Wetland quality. Explain: The wetlands have been impacted from logging and ditching. Project wetlands cross or serve as state boundaries. Explain: N/A.
Pop		(b) General Flow Relationship with Non-TNW: Flow is: Ephemeral flow. Explain: Wetland K flows to Poplar Branch through a ditch located immediately outside the ea along the property boundary to the east (see supplemental sketch in file). Wetland A flows directly to an impoundment of ranch. The flow from the wetlands to Polar Branch likely occurs after rain events or seasonally when water flows out of the Surface flow is: Discrete and confined Characteristics: The flow from Wetland K to Poplar Branch is discrete and confined within the off-site ditch. The
		n Wetland A to Poplar Branch is discrete as the wetland and the impoundment to Poplar Branch share a border and water from and can flow directly into Poplar Branch. Subsurface flow: Unknown. Explain findings:
area	whic	□ Dye (or other) test performed: (c) Wetland Adjacency Determination with Non-TNW: □ Directly abutting □ Not directly abutting □ Discrete wetland hydrologic connection. Explain: Wetland K flows into a ditch immediately outside the review the flows directly into Poplar Branch. □ Ecological connection. Explain: □ Separated by berm/barrier. Explain:
		(d) Proximity (Relationship) to TNW Project wetlands are 5-10 river miles from TNW. Project waters are 5-10 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 5 - 10-year 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: There was no flow or water in the wetlands at the time of the site visit. Identify specific pollutants, if known: No known pollutants.
	(iii)	Biological Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Scrub Shrub. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings:

	Other environmentally-sensitive species. Explain findings:
\boxtimes	Aquatic/wildlife diversity. Explain findings: The wetlands provide habitat for both aquatic and terrestrial wildlife.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 2

Approximately (19.02) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Wetland	Directly abuts? (Y/N)	Size (in acres)
K	N	1.29
A	Y	17.73

Summarize overall biological, chemical and physical functions being performed: See Section C below.

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: Jurisdictional Wetlands K 1.29 acres does not directly abut a RPW but has a surface hydrological connection to downstream perennial RPW Poplar Branch via a ditch located immediately outside the review area along the property boundary to the east (see supplemental sketch in file). Wetland A 17.73 directly abuts perennial RPW Poplar Branch impoundment.

The scrub shrub wetlands which are similarly situated and adjacent (both directly abutting and non-abutting) to the RPW are collectively performing functions consistent with the following: Biological – wetlands adjacent to this RPW include depressional wetlands. As such, a broad variety of biological functions are being performed which include providing breeding grounds and shelter for aquatic species, foraging areas for wetland dependent species, and in particular, upstream floodplain wetlands provide important spawning areas for species that inhabit the main tributary channel as adults. These wetlands are essential in providing organic carbon to downstream waters, resulting in the nourishment of the downstream food web. Chemical – Wetlands in the review area are providing the important collective functions of removal of excess nutrients which are contributed by runoff from the surrounding uplands, reducing nitrogen and phosphorus loading downstream, and effectively preventing oxygen depletion that can result from eutrophication. Physical – Wetlands in the review area are collectively performing flow maintenance functions,

including retaining runoff inflow and storing flood water temporarily. Flow maintenance results in the reduction of downstream peak flows (discharge and volume), helping to maintain seasonal flow volumes.

The review area has historically been mined for suitable fill material and is still undergoing mining activities. The surrounding area consists of similar mining activities, undeveloped forested areas, and residential development. At the downstream DHEC water quality station site located within Goose Creek (MD-114), aquatic life uses are not supported due to dissolved oxygen excursions. Significant decreasing trends in five-day biological oxygen demand, turbidity, and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are fully supported at this station site. There is a high potential for residential growth in the Town of Moncks Corner. The loss of the subject wetlands would result in the loss of filtered organic materials being transported downstream, a loss in flood water storage, and the loss of wildlife habitat.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of Goose Creek and the Cooper River, this office has determined that there is a Significant Nexus between the adjacent wetlands (abutting and non-abutting) to perennial RPW Poplar Branch and the downstream TNWs.

DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL

TH	IAT 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: Poplar Branch and the impoundment upstream are located immediately outside the review area. Poplar Branch is identified as a blue line tributary on the USGS topographic map, can be seen in lidar, aerial photography, and furthermore has significant hydrology from the upstream drainage.
	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: Jurisdictional Wetland A - 17.73 acre continues offsite where it shares a boundary and directly touches the impoundment of Poplar Branch located immediately outside the review area.
	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:

acres.

Provide acreage estimates for jurisdictional wetlands in the review area:

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

8See Footnote # 3.

		Wetlands that do not directly abut an RPW, but 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 jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: Jurisdictional Wetlands $K-1.29$ 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. 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.	SUC	CLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH 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:
	Ide	ntify water body and summarize rationale supporting determination:
		vide 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.	NO	N-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):
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional genent (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.
		vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such iding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres.

To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 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.

SECTION IV: DATA SOURCES.
A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checke and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Survey plat entitled "Exhibit Showing the Wetlands Within A 787.91 Acre Tract Being Berkeley County TMS# 195-00-00-033" sheets 1-4 of 4 prepared by Thomas & Hutton dated April 12, 2021. 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. USGS 8 and 12 digit HUC maps.
U.S. Geological Survey map(s). Cite scale & quad name: MOUNT HOLLY & MONCKS CORNER, SC USGS QUADRANGLI MAP.
USDA Natural Resources Conservation Service Soil Survey. Citation: USDA Soil Survey Map. National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Aerial photography from Google Earth Pro created by the Corps. or Other (Name & Date): Ground Photos from the wetland delineation completed by the agent January 21, 2021. Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature:
Other information (please specify): LIDAR created by the Corps.
B. ADDITIONAL COMMENTS TO SUPPORT JD: Based on the above information it has been determined by this office that

Jurisdictional Wetlands K - 1.29 acres and A - 17.73 acres are jurisdictional aquatic resources subject to regulation under Section 404 of the

acres. List type of aquatic resource:

Other non-wetland waters:

acres.

Clean Water Act, but not subject to Section 10 of the River and Harbors Act.

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.

	CTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): November 7, 2022
	DISTRICT OFFICE, FILE NAME, AND NUMBER: CESAC-RD-S, Tommy Daniel's Tract, SAC-2021-01119, JD Form 5 of 5
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: A 787.91-acre site located off Pinecrest Drive. State: South Carolina County/parish/borough: Berkeley City: Moncks Corner Center coordinates of site (lat/long in degree decimal format): Lat. 33.120556°, Long80.084722°. Universal Transverse Mercator: NAD83 Name of nearest waterbody: Tillmans Branch Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Foster Creek
	Foster Creek is a navigable water subject to the ebb and flow of the tide. Name of watershed or Hydrologic Unit Code (HUC): 0305020107, Cooper River/Charleston Harbor Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: September 6, 2022 ☐ Field Determination. Date(s): September 3, 2021
SEC A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	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 ew 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 HURISDICTION
	CWA SECTION 404 DETERMINATION OF JURISDICTION. re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
The	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: Totaling 13.51 acres The below wetlands flow into offsite tributaries to Canterhill Swamp Jurisdictional Wetlands H – 1.2 acres, L – 5.72 acres, and J – 6.59 acres
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): N/A.
	 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:

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.

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

Offsite perennial tributaries of Canterhill Swamp.

(i) General Area Conditions:

Watershed size: 206,457 acres Drainage area: 619 acres Average annual rainfall: 51 inch Average annual snowfall: N/A

(ii) Physical Characteristics: Offsite perennial tributaries of Canterhill Swamp.

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through 2 tributaries before entering TNW.

Project waters are Project water Project water Project water Project water Project water

Identify flow route to TNW5:

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

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: N/A.
	Identify flow route to TNW: Offsite perennial tributaries of Canterhill Swamp flows into Canterhill Swamp which flows into Sophia Swamp into Brick Bound Swamp and into Foster Creek a TNW.
(b)	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: 4 feet Average depth: 3 feet Average side slopes: 2:1
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: .
Canterhill Sw	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: The offsite perennial tributaries to amp are stable with some riparian canopy. Presence of run/riffle/pool complexes. Explain: N/A. Tributary geometry: Meandering Tributary gradient (approximate average slope): 2 %
(c)	Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Year round flow in a typical year. Other information on duration and volume: Unknown.
the offsite per	Surface flow is: Discrete and confined. Characteristics: The hydrological flow is contained within the bed and banks of ennial tributaries to Canterhill Swamp which can be seen on hillshade and lidar.
	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 changes in the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting secour multiple observed or predicted flow events 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:

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.

		Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc. Explain: Since the offsite perennial tributaries to Canterhill Swamp are located offsite the tributary was not observed. However, the water in the tributary would be expected to have a clear color. Identify specific pollutants, if known: There are no known pollutants.				
	(iv)		ogical 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:			
wildlife. area.	Fish	and	Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: Poplar Branch provides a source of water for both aquatic and terrestrial amphibians may utilize the stream during flow periods and terrestrial wildlife such as deer and raccoons may forage in the			
2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW						
	(i)		General Wetland Characteristics: Properties: Jurisdictional Wetlands H – 1.2 acres, L – 5.72 acres, and J – 6.59 acres Wetland size: 13.51 acres Wetland type. Explain: Scrub Shrub freshwater wetlands. Wetland quality. Explain: The wetlands have been impacted from logging and ditching. Project wetlands cross or serve as state boundaries. Explain: N/A.			
froi dire bor	n the ectly i	of Ca wetla nto th	General Flow Relationship with Non-TNW: Flow is: Ephemeral flow. Explain: Wetlands H and L share a boundary and directly flow into an offsite perennial anterhill Swamp. Wetland J flows to an offsite perennial tributary to Canterhill Swamp through a ditch offsite. The flow ands to the offsite perennial tributaries likely occurs after rain events or seasonally when water flows out of the wetlands ne tributaries. Surface flow is: Discrete and confined Characteristics: The flow from Wetland H and L is discrete as the wetland and offsite perennial tributary share a later from the wetland system can flow directly into the tributary. The flow from Wetland J to the off-site perennial screte and confined within the offsite ditch.			
			Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:			
area	a whic		Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: Wetland J flows into a ditch immediately outside the review ows directly into the offsite perennial tributary. ☐ Ecological connection. Explain:			
		(d)	Separated by berm/barrier. Explain: Proximity (Relationship) to TNW Project wetlands are 5-10 river miles from TNW. Project waters are 5-10 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 5 - 10-year floodplain.			
	(ii)	Cha	emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: There was no flow or water in the wetlands at the time of the site visit. httify specific pollutants, if known: No known pollutants.			
	(iii)		logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Scrub Shrub. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: The wetlands provide habitat for both aquatic and terrestrial wildlife			

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **3**Approximately (13.51) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Wetlands	Directly abuts? (Y/N)	Size (in acres)
Н	Y	1.2
L	Y	5.72
J	N	6.59

Summarize overall biological, chemical and physical functions being performed: See Section C below.

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: Jurisdictional Wetland J 6.59 acres does not directly abut a RPW but has a surface hydrological connection to a offsite perennial tributary to Canterhill Swamp (the RPW) via a ditch located immediately outside the review area to the east (see supplemental sketch in file). Jurisdictional Wetlands H 1.2 acres and L 5.72 acres directly abut a offsite perennial tributary to Canterhill Swamp.

The scrub shrub wetlands which are similarly situated and adjacent (both directly abutting and non-abutting) to the RPW are collectively performing functions consistent with the following: Biological – wetlands adjacent to this RPW include depressional wetlands. As such, a broad variety of biological functions are being performed which include providing breeding grounds and shelter for aquatic species, foraging areas for wetland dependent species, and in particular, upstream floodplain wetlands provide important spawning areas for species that inhabit the main tributary channel as adults. These wetlands are essential in providing organic carbon to downstream waters, resulting in the nourishment of the downstream food web. Chemical – Wetlands in the review area are providing the important collective functions of removal of excess nutrients which are contributed by runoff from the surrounding uplands, reducing nitrogen and phosphorus loading downstream, and effectively preventing oxygen depletion that can result from eutrophication. Physical – Wetlands in the review area are collectively performing flow maintenance functions,

including retaining runoff inflow and storing flood water temporarily. Flow maintenance results in the reduction of downstream peak flows (discharge and volume), helping to maintain seasonal flow volumes.

The review area has historically been mined for suitable fill material and is still undergoing mining activities. The surrounding area consists of similar mining activities, undeveloped forested areas, and residential development. At the downstream DHEC water quality station site located within Goose Creek (MD-114), aquatic life uses are not supported due to dissolved oxygen excursions. Significant decreasing trends in five-day biological oxygen demand, turbidity, and total phosphorus concentration suggest improving conditions for these parameters. Recreational uses are fully supported at this station site. There is a high potential for residential growth in the Town of Moncks Corner. The loss of the subject wetlands would result in the loss of filtered organic materials being transported downstream, a loss in flood water storage, and the loss of wildlife habitat.

The review area has historically been mined for suitable fill material and is still undergoing mining activities. The surrounding area consists of similar mining activities, undeveloped forested areas, and residential development. At the downstream DHEC water quality station site located within Foster Creek (MD-240), aquatic life uses are not supported due to dissolved oxygen excursions. There is a significant increasing trend in pH. Significant decreasing trends in five day biological oxygen demand, turbidity, and fecal coliform bacteria suggest improving conditions for these parameters. Recreational uses are fully supported. There is a high potential for residential growth in the Town of Moncks Corner. The loss of the subject wetlands would result in the loss of filtered organic materials being transported downstream, a loss in flood water storage, and the loss of wildlife habitat.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of Foster Creek and the Cooper River, this office has determined that there is a Significant Nexus between the adjacent wetlands (abutting and non-abutting) to the offsite perennial tributaries to Canterhill Swamp and the downstream TNWs.

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 offsite perennial tributaries to Canterhill Swamp have year round flow in a typical year. The tributaries are identified as a blue line stream on the USGS topographic map, can be seen in lidar, aerial photogrohpy, and furthermore has significant hydrology from the upstream drainage.
	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: Jurisdictional Wetlands H-1.2 acres and L-5.72 acres continue offsite and are part of the same contiguous wetland system. The contiguous wetland system including Wetland H and L can be seen in remote resources to include USDA hydric soils, lidar, and aerial photography. The wetland system continues outside the review

⁸See Footnote # 3.

			area to the east and flows directly into the offsite perennial tributary to Canterhill Swamp. Furthermore, the wetland system shares a boundary and directly touches the offsite perennial tributary to Canterhill Swamp.
			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 a	acreage estimates for jurisdictional wetlands in the review area: acres.
	5.	We and	Is adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. tlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this clusion is provided at Section III.C.
		Provide	acreage estimates for jurisdictional wetlands in the review area: Jurisdictional Wetland $J-6.59$ acres.
	6.	☐ Wer	Is adjacent to non-RPWs that flow directly or indirectly into TNWs. tlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and a similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this clusion is provided at Section III.C.
		Provide	estimates for jurisdictional wetlands in the review area: acres.
	7.	As a gen Der	dments of jurisdictional waters. ⁹ eral rule, the impoundment of a jurisdictional tributary remains jurisdictional. nonstrate that impoundment was created from "waters of the U.S.," or nonstrate that water meets the criteria for one of the categories presented above (1-6), or nonstrate that water is isolated with a nexus to commerce (see E below).
Е.	DE SUC	GRADAT CH WAT: which are from which which are Interstate	[INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, TON OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY ERS (CHECK ALL THAT APPLY): 10 or could be used by interstate or foreign travelers for recreational or other purposes. ch fish or shellfish are or could be taken and sold in interstate or foreign commerce. or could be used for industrial purposes by industries in interstate commerce. isolated waters. Explain:
	Ide	ntify wate	er body and summarize rationale supporting determination:
	Pro	Tributary Other nor	n-wetland waters: acres. fy type(s) of waters: .
F.	NO	If potent Wetland Review a Pric "Mi Waters d	DICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): ial wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Delineation Manual and/or appropriate Regional Supplements. area included isolated waters with no substantial nexus to interstate (or foreign) commerce. but to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the igratory Bird Rule" (MBR). but no not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: but the supplements of the included in the properties of the control of the included in the properties of t

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
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.

	facto				w area, where the <u>sole</u> potential basis of jurisdiction is the MBR pecies, use of water for irrigated agriculture), using best professional	ıl	
		Non-wetland waters (i.e., rivers, Lakes/ponds: acres.	streams):	linear feet	width (ft).		
		Other non-wetland waters: Wetlands: acres.	acres. List type	of aquatic res	source: .		
		ding is required for jurisdiction (check all that ap		w area that do not meet the "Significant Nexus" standard, where su	ch	
		Non-wetland waters (i.e., rivers, Lakes/ponds: acres.	•	linear feet,	width (ft).		
		Other non-wetland waters: Wetlands: acres.	acres. List typ	e of aquatic re	esource:		
SEC	<u>CTIO</u>	N IV: DATA SOURCES.					
A.					ply - checked items shall be included in case file and, where checke	d	
	⊠ Wet		ted by or on bel	nalf of the app	olicant/consultant: Survey plat entitled "Exhibit Showing the S# 195-00-00-033" sheets 1-4 of 4 prepared by Thomas & Hutton		
		Data sheets prepared/submitted b	by or on behalf of	of the applican	nt/consultant.		
		☐ Office concurs with data sheets/delineation report.					
		Office does not concur with of Data sheets prepared by the Corp.		eation report.			
	Ħ	Corps navigable waters' study:					
		U.S. Geological Survey Hydrolo	gic Atlas:				
		USGS NHD data.					
	\square	USGS 8 and 12 digit HUC m		ad nama, MOI	UNT HOLLY & MONCKS CORNER, SC USGS QUADRANGLI	D7	
	MA		Che scale & qua	ad name: MO	UNI HOLLI & MONCKS CORNER, SC USUS QUADRANULI	2	
			rvation Service	Soil Survey. (Citation: USDA Soil Survey Map.		
		National wetlands inventory map					
		State/Local wetland inventory m	ap(s):				
	\vdash	FEMA/FIRM maps: . 100-year Floodplain Elevation is	· (Nationa	l Geodectic V	Vertical Datum of 1929)		
	\bowtie				From Google Earth Pro created by the Corps.		
	_				the wetland delineation completed by the agent January 21, 2021.		
		Previous determination(s). File	no. and date of r	esponse letter	: .		
	\vdash	Applicable/supporting case law: Applicable/supporting scientific	litamatuma.				
		Other information (please specify		ted by the Cor	rps.		
В.	ADD			-	bove information it has been determined by this office that		

B. ADDITIONAL COMMENTS TO SUPPORT JD: Based on the above information it has been determined by this office that Jurisdictional Wetlands H-1.2 acres, L-5.72 acres, and J-6.59 acres are jurisdictional aquatic resources subject to regulation under Section 404 of the Clean Water Act, but not subject to Section 10 of the Rivers and Harbors Act.