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

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

# **SECTION I: BACKGROUND INFORMATION**

# A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): March 2, 2023

В. Т
DISTRICT OFFIC
CE, FILE NAME
. AND NUMBER: 3
JD Form 1 of 4:
SAC-2006-03606
Alcolu Industrial a
nd Technology Park

C. PROJECT LOCATION AND BACKGROUND INFORMATION: A +/- 141-acre site identified as Tax Map Sequence (TMS) #s 184-03-00-002-00 /184-02-00-001-00 located at 1154 Trinity Church Road off of Highway 521 just west of the I-95 interchange in Alcolu, Clarendon County, South Carolina County/parish/borough: Clarendon County State: South Carolina Center coordinates of site (lat/long in degree decimal format): Lat. 33.74671 °, Long. -80.205453 °. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Unnamed tributary of Pocataligo River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Name of watershed or Hydrologic Unit Code (HUC): 03040205-0404 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: March 2, 2023 Field Determination. Date(s): **December 8, 2015** SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review 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. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There 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): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters<sup>2</sup> (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: c. Limits (boundaries) of jurisdiction based on: Pick List

# Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Elevation of established OHWM (if known):

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Four (4) isolated wetlands, labeled NJW-B (0.035 ac), NJW-C (1.024 ac), NJW-D (0.417 ac), and NJW-F (0.295 ac) on the drawing, were assessed within the review area and determined to be non-jurisdictional wetlands. The topographic map depicts these wetlands as forested uplands within the project boundary and does not depict any blue

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> 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.

lines or other potential Waters of the US near the wetlands. The aerials depict all four wetlands as forested with no potential linear features within or adjacent to the boundary of the wetlands. The NWIs depict these wetlands as uplands (U42P), and the soil survey maps Wetlands NJW-B and NJW-F as Rains, which is a hydric soil. Wetlands NJW-C and NJW-D are mapped Lynchburg on the soil survey, which is partially hydric. These forested freshwater wetlands were viewed during the site visit (site visit in December of 2015 for previous AJD dated February 29, 2016) and determined to be completely surrounded by uplands. No linear features were observed during the site visit within or adjacent to any of the wetland boundaries. No surface or shallow subsurface connections from Wetlands NJW-B, NJW-C, NJW-D, and NJW-F to any Waters of the US (WOUS) were viewed during the site visit. A review of a jurisdictional determinations completed on this site (SAC 2006-03606, letters dated April 11, 2007, and February 29, 2016) previously determined that these wetlands are isolated.

These depressional wetlands exhibited hydric soils, hydrophytic vegetation, and indicators of hydrology, which satisfied the criteria set forth in the 1987 Wetland Delineation Manual and the Atlantic and Gulf Coastal Plain Regional Supplement. All water located within or draining toward these wetlands had no discernible or traceable outfall or connection to any WOUS. Additionally, Wetlands NJW-B, NJW-C, NJW-D, and NJW-F were found to be completely surrounded by forested uplands which further disrupts possible connections to any WOUS. Chemically, these wetlands do not affect any WOUS in the absorption/treatment of nutrients, runoff, or pollutants. Physically, the topographic location of these wetlands is such that water in the wetlands is retained and eventually percolates through the soil to groundwater only, at an unknown depth, providing little if any stormwater attenuation. Biologically, these wetlands are not essential in providing organic carbon in the form of their collective primary productivity to downstream waters, resulting in the nourishment of the downstream food web. Because of the lack of discernible outfall, topography grades and lack of evidence of chemical, physical, or biological connection, Wetlands NJW-B, NJW-C, NJW-D, and NJW-F were determined to be isolated, non-jurisdictional wetlands.

# **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<sup>4</sup> 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

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

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)		neral Area Conditions:
		tershed size: Pick List inage area: Pick List
	Ave	rage annual rainfall: inches
	Ave	rage annual snowfall: inches
(ii)		sical Characteristics:  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:
		Identify flow route to TNW <sup>5</sup> :  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 <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil  the presence of litter and debris destruction of terrestrial vegetation

<sup>5</sup> 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. <sup>6</sup>A 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.

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

<sup>7</sup>Ibid.

	Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
	Identify specific pollutants, if known:
	(iii) Biological Characteristics. Wetland supports (check all that apply):  Riparian buffer. Characteristics (type, average width):  Vegetation type/percent cover. Explain:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:
3.	Characteristics of all wetlands adjacent to the tributary (if any)  All wetland(s) being considered in the cumulative analysis: Pick List  Approximately ( ) acres in total are being considered in the cumulative analysis.
	For each wetland, specify the following:
	<u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u>
	Summarize averall higherical, chamical and physical functions being performed:
	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:

TH	(AT 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 <sup>8</sup> 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. <sup>9</sup> As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

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

<sup>8</sup>See Footnote # 3.

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

	Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).			
Е.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):10  which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:			
	Identify water body and summarize rationale supporting determination:			
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.			
F.	<ul> <li>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):         <ul> <li>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.</li> <li>Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.</li></ul></li></ul>			
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: 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:			
SE	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: SM&E, Inc.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. The Corps agrees with the conclusions of the submitted report and data			
3116	☐ Office does not concur with data sheets/delineation report. ☐ Data sheets prepared by the Corps: ☐ Corps navigable waters' study: 1977 Navigability Study. ☐ U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.			

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

	USGS NHD data.
	☑ USGS 8 and 12 digit HUC maps. 03040205-0404 Pocotaligo River
$\boxtimes$	U.S. Geological Survey map(s). Cite scale & quad name: Submitted by agent titled "Topographic Exhibit" dated 7/5/2022.
$\boxtimes$	USDA Natural Resources Conservation Service Soil Survey. Citation: Submitted by agent titled "Soils Exhibit" dated 7/5/2022.
	National wetlands inventory map(s). Cite name: Submitted by agent titled "NWI Exhibit" dated 7/5/2022.
	State/Local wetland inventory map(s):
	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
$\boxtimes$	Photographs: Aerial (Name & Date): Submitted by agent titled "Aerial Exhibit" dated 7/5/2022.
	or 🔀 Other (Name & Date): Submitted by agent as part of the JD request packet.
$\boxtimes$	Previous determination(s). File no. and date of response letter: SAC-2006-03606, letters dated April 11, 2007, and February 29,
201	6
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
$\boxtimes$	Other information (please specify): Submitted by agent titled "LiDAR Exhibit" dated 7/5/2022. Corps visit 12/8/2015

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** Four (4) isolated wetlands, labeled NJW-B (0.035 ac), NJW-C (1.024 ac), NJW-D (0.417 ac), and NJW-F (0.295 ac) on the drawing, were assessed within the review area and determined to be non-jurisdictional wetlands. The topographic map depicts these wetlands as forested uplands within the project boundary and does not depict any blue lines or other potential Waters of the US near the wetlands. The aerials depict all four wetlands as forested with no potential linear features within or adjacent to the boundary of the wetlands. The NWIs depict these wetlands as uplands (U42P), and the soil survey maps Wetlands NJW-B and NJW-F as Rains, which is a hydric soil. Wetlands NJW-C and NJW-D are mapped Lynchburg on the soil survey, which is partially hydric. These forested freshwater wetlands were viewed during the site visit (site visit in December of 2015 for previous AJD dated February 29, 2016) and determined to be completely surrounded by uplands. No linear features were observed during the site visit within or adjacent to any of the wetland boundaries. No surface or shallow subsurface connections from Wetlands NJW-B, NJW-C, NJW-D, and NJW-F to any Waters of the US (WOUS) were viewed during the site visit. A review of a jurisdictional determinations completed on this site (SAC 2006-03606, letters dated April 11, 2007, and February 29, 2016) previously determined that these wetlands are isolated.

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

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SECTION I:	BACKGROUND	INFORMATION

A.	REPORT COMPLETION	DATE FOR APPRO	VED JURISDICTIONAL	<b>DETERMINATION</b> (	(JD)	: March 2.	2023
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В.	DISTRICT OFFICE,	FILE NAME, AND	NUMBER: JD Form	2 of 4; SAC-2006-0360	6 Alcolu Industrial and	l Technology Park
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C. PROJECT LOCATION AND BACKGROUND INFORMATION: A +/- 141 acre site identified as Tax Map Sequence (TMS) #s 184-03-00-002-00 /184-02-00-001-00 located at 1154 Trinity Church Road off of Highway 521 just west of the I-95 interchange in Alcolu, Clarendon County, South Carolina County/parish/borough: Clarendon County State: South Carolina City: Alcolu Center coordinates of site (lat/long in degree decimal format): Lat. 33.7467 °, Long. -80.2054°. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Unnamed tributary of Pocataligo River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River Name of watershed or Hydrologic Unit Code (HUC): 03040205-0404 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: March 2, 2023 Field Determination. Date(s): **December 8, 2015** SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review 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. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There 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): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters<sup>2</sup> (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: (JT-1) 1,230 + (JT-1A) 30 If = 1,260.Wetlands: JW-E 3.343 acres. c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM. Elevation of established OHWM (if known): Non-regulated waters/wetlands (check if applicable):<sup>3</sup> Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> 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.

# **SECTION III: CWA ANALYSIS**

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1.	INW 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: 171,667 acres

# Drainage area: 42 acres Average annual rainfall: 43.87-52.68 inches Average annual snowfall: 0.2 inches (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 1 (or less) river miles from RPW. Project waters are 5-10 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: N/A

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

which flows directly into the Black River, a TNW. Tributary stream order, if known: This tributary is a 1st order stream. (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: 5 feet Average depth: 4 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 tributary is relatively stable with no erosion or sloughing banks observed... Presence of run/riffle/pool complexes. Explain: The tributary is relatively stable with no erosion or sloughing banks observed. Tributary geometry: Meandering. A review of the topographic map and aerials reveals that the majority of this tributary flows through forested wetlands Tributary gradient (approximate average slope): 0.1 % (c) Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: The tributary provides seasonal flow based on a review of the aerials, information obtained during the site visit, and information reviewed in the submittal. The aerials depict the tributary as a shaded linear feature. This sRPW was viewed during a period of above average rainfall (15.66" above average for the past year); however, leaf litter and debris were still observed within the channel. The composition of the channel consisted of muck, silts, and sand. This tributary flows southwest into an unnamed tributary of the Pocotaligo River. Other information on duration and volume: In addition to being recharged by groundwater, the sRPW receives overland sheetflow from the adjacent wetlands and uplands in the drainage area. Surface flow is: Discrete and confined. Characteristics: Surface flow is restricted under normal conditions between the bed and banks of the tributary. Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply): Bed and banks OHWM<sup>6</sup> (check all indicators that apply): ☐ clear, natural line impressed on the bank the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): Discontinuous OHWM.<sup>7</sup> Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

Identify flow route to TNW<sup>5</sup>: The seasonal RPW located along the southern property boundary continues southwest where it flows into an unnamed perennial RPW. The perennial RPW flows into the Pocotaligo River, a pRPW,

<sup>&</sup>lt;sup>5</sup> 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.

<sup>6</sup>A 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.

Third.

	☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by: ☐ survey to available datum;
	☐ fine shell or debris deposits (foreshore) ☐ physical markings;
	<ul> <li>□ physical markings/characteristics</li> <li>□ vegetation lines/changes in vegetation types.</li> <li>□ tidal gauges</li> </ul>
	other (list):
(iii) Chem	ical Characteristics:
Character Expension of the Pocotaligo I (iv) Biolog	cterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). xplain: The tributary has flowing water present typically seen in blackwater systems. Land use in this watershed comprised of approximately 43% agricultural land, 25% forested wetland, 23% forested land, and 6% urban and. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The CDHEC Watersheds website states that there is a moderate to high potential for growth in this watershed, which includes the City of Manning and the Towns of Paxville and Pinewood. US Interstate 95 crosses this watershed. By specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and inter the tributary. Because this land use requires regular manipulation of the soils, agricultural activities can use in suspended sediments in the downstream tributaries. According to the SCDHEC website, the downstream ion on the Pocotaligo River (PD-115) states that aquatic life and recreational uses are fully supported; however, icant increasing trends in turbidity and fecal coliform bacteria concentrations. Although dissolved oxygen arred, they are typical of a blackwater system and are natural. A fish consumption advisory has been issued for River in this watershed due to the presence of mercury.  Sical Characteristics. Channel supports (check all that apply):  Liparian corridor. Characteristics (type, average width): This 1st order sRPW supports a riparian zone several feet wide that contributes to the health of the aquatic system by filtering out pollutants and preventing erosion.
⊠ v	Vetland fringe. Characteristics: The majority of this tributary is surrounded by palustrine forested wetlands.
_ [	Federally Listed species. Explain findings:
	Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:
travel corridor for a	Aquatic/wildlife diversity. Explain findings: <b>This tributary provides important aquatic habitat for wildlife and a</b>
	stics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	cal Characteristics:
	deneral Wetland Characteristics: roperties:
	Wetland size: JW-E 3.343-acres Wetland type. Explain: Palustrine Forested (PFO1B).
_	Wetland quality. Explain: The wetlands are fully functional.
	roject wetlands cross or serve as state boundaries. Explain: The wetlands remain confined within project site and jacent to the site and do not cross or serve as state boundaries.
	deneral Flow Relationship with Non-TNW: low is: Intermittent flow. Explain: The wetlands flow into the sRPW after major storm events and during the wet
months.	<b>3</b>
S	urface flow is: Overland sheetflow Characteristics:
S	ubsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	Vetland Adjacency Determination with Non-TNW:  Directly abutting  Not directly abutting  Discrete wetland hydrologic connection. Explain:  Ecological connection. Explain:  Separated by berm/barrier. Explain:
P P	roximity (Relationship) to TNW roject wetlands are 10-15 river miles from TNW. roject waters are 5-10 aerial (straight) miles from TNW. low is from: Wetland to navigable waters.

Estimate approximate location of wetland as within the 100 - 500-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: The wetland has water present typically seen in blackwater systems. Land use in this watershed is comprised of approximately 43% agricultural land, 25% forested wetland, 23% forested land, and 6% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a moderate to high potential for growth in this watershed, which includes the City of Manning and the Towns of Paxville and Pinewood. US Interstate 95 crosses this watershed.

Identify specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the potential exists for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and harvesting, to enter the wetland. Because this land use requires regular manipulation of the soils, agricultural activities can create an increase in suspended sediments in the downstream tributaries. According to the SCDHEC website, the downstream monitoring station on the Pocotaligo River (PD-115) states that aquatic life and recreational uses are fully supported; however, there are significant increasing trends in turbidity and fecal coliform bacteria concentrations. Although dissolved oxygen excursions occurred, they are typical of a blackwater system and are natural. A fish consumption advisory has been issued for the Pocotaligo River in this watershed due to the presence of mercury.

Vegetation type/percent co	ristics (type, average wid over. Explain: <b>Acer rub</b> i	all that apply): th): Palustrine forested, approxin rum (FAC), Liquidambar styraci	
tulipferia (FACU), and Morella cerifer	a (FAC).		
☐ Habitat for:			
☐ Federally Listed specie			
☐ Fish/spawn areas. Expl			
Other environmentally	-sensitive species. Expla	in findings: .	
☐ Aquatic/wildlife divers	ity. Explain findings:		
3. Characteristics of all wetlands adj All wetland(s) being considered Approximately (5.19) acres in For each wetland, specify	in the cumulative analy total are being considere	sis: <b>3</b>	
Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
Y	0.4	Y	3.34
Ÿ	1.36	_	

Summarize overall biological, chemical and physical functions being performed: The seasonal RPW and adjacent wetlands are providing important biological, chemical, and physical functions. According to the SCDHEC Watersheds website, land use in this watershed is comprised of 43% agricultural land, 25% forested wetland, 23% forested land, and 6% urban land. The remaining land uses in this watershed includes scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a moderate to high potential for growth in this watershed, which includes the City of Manning and the Towns of Paxville and Pinewood. US Interstate 95 crosses this watershed. Due to the predominance of agricultural land use in this watershed, herbicides and other pollutants are likely to enter the tributary and downstream TNW. The unnamed 1st order tributary and wetlands act as a catch basin to help filter out pollutants from the neighboring uplands and to hold runoff prior to it flowing downstream into the TNW. Besides the obvious functions of stormwater attenuation, absorption, and overstory biomass input into the food web, the seasonal RPW provides a uniquely important ecological connection to the downstream TNW. The unnamed seasonal RPW is a tributary of a perennial RPW that flows into the Pocotaligo River, a pRPW. The Pocotaligo River continues east where it flows into the Black River, a TNW. Therefore, this tributary and the adjacent wetlands have a significant nexus to the downstream TNW

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent

wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

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

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

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

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The on-site seasonal RPW and adjacent wetlands are performing important biological, chemical, and physical functions within a watershed comprised primarily of agricultural land use. The biological functions being performed include providing breeding grounds and shelter for aquatic animals and diversifying the plant life within the watershed. As a result, the waters of the US in the drainage area supply food sources for a variety of water dependent species, such as invertebrates, amphibians, reptiles and mammals. The tributary and wetlands are essential in providing organic carbons in the form of their collective primary productivity to downstream waters, resulting in the nourishment of the downstream food web. The chemical functions being performed consist of the removal of excess pollutants, which are contributed by runoff from the surrounding uplands, from the downstream TNW. This reduces nitrogen and phosphorus loading downstream and effectively prevents oxygen depletion that can result from eutrophication. Physically, the tributary and wetlands help reduce stormwater flow. Not only does this prevent the accumulation of sediment downstream, which can smother fish and other aquatic wildlife, but it also reduces the amount of pollutants downstream because these pollutants are usually transported by sediment particles. This seasonal RPW and its adjacent wetlands temporarily store flood waters and reduce downstream peak flows. This helps to maintain seasonal flow volumes. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of the Black River, it has been determined that there is a significant nexus between the relevant reach of the seasonal RPW and adjacent wetlands to the downstream TNW.

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
	TNWs: linear feet width (ft), Or, acres.
	Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.
	Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that
	tributary is perennial: .
	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: The on-site 1st order tributary was determined to have seasonal flow based on a review of the aerials,
	information obtained during the site visit, and information included in the submittal. The aerials depict this tributary
	as a shaded linear feature. The topographic map depicts this area as forested wetlands. During the site visit, this
	feature was observed as having flow indicators such as an OHWM, a sinuous channel within bed and banks, and water
	staining. Seasonal flow indicators such as leaf litter and debris in the channel and a channel comprised of mucks, silts,
	and sands were observed. This 1st order seasonal RPW flows southwest into an unnamed tributary of the Pocotaligo
	River, a pRPW. The Pocotaligo River continues flowing east where it enters the Black River, a TNW.

	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: (JT-1) 1,230 + (JT-1A) 30 If = 1,260.  Other non-wetland waters: acres.  Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> 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: Based on a review of the aerials, topographic map, soil survey, NWIs and information obtained during the site visit, the wetland labeled JW-E on the plat was determined to directly abut JT-1. The aerials depict the tributary as a shaded linear feature and the topographic map depicts the area as forested wetlands. The NWIs map this area as palustrine forested wetlands (PFO1B), and the soil survey maps the abutting wetlands as Paxville, which is a hydric soil. The site visit confirmed that the on site sRPW JT-1 flows through JW-E.
	Provide acreage estimates for jurisdictional wetlands in the review area: JW-E 3.343
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 SUC	OLATED [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.

E.

<sup>&</sup>lt;sup>8</sup>See Footnote # 3.

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

<sup>10</sup> 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.

		which are or could be used for industrial purposes by industries in interstate commerce.  Interstate isolated waters. Explain:  Other factors. Explain:			
	Idei	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.		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 ment (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.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.			
SEC	CTIO	N IV: DATA SOURCES.			
A. S		PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: SM&E, Inc.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. The Corps agrees with the conclusions of the submitted report and data			
shee	ets.	☐ Office does not concur with data sheets/delineation report.  Data sheets prepared by the Corps:  Corps navigable waters' study: 1977 Navigability Study.  U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.  ☐ USGS NHD data.			
		Applicable/supporting case law: Applicable/supporting scientific literature:			

Other information (please specify): Submitted by agent titled "LiDAR Exhibit" dated 7/5/2022. Corps visit 12/8/2015

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** The on-site 1st order tributary was determined to have seasonal flow based on a review of the aerials and information obtained during the site visit. The aerials depict this tributary as a shaded linear feature. The topographic map depicts this area as forested wetlands. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinuous channel within bed and banks, and water staining. Seasonal flow indicators such as leaf litter and debris in the channel and a channel comprised of mucks, silts, and sands were observed. This 1st order seasonal RPW flows southwest into an unnamed tributary of the Pocotaligo River, a pRPW. The Pocotaligo River continues flowing east where it enters the Black River, a TNW.

Based on a review of the aerials, topographic map, soil survey, NWIs and information obtained during the site visit, the wetland labeled JW-E on the plat was determined to directly abut the sRPW JT-1. The aerials depict the tributary as a shaded linear feature and the topographic map depicts the area as forested wetlands. The NWIs map this area as palustrine forested wetlands (PFO1B), and the soil survey maps the abutting wetlands as Paxville, which is a hydric soil. The site visit confirmed that the on site sRPW JT-1 / JT-1A flows through JW-E.

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

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

# **SECTION I: BACKGROUND INFORMATION**

В.	DISTRICT OFFICE,	, FILE NAME,	AND NUMBER	<b>R:</b> JD Form 2 of	4; SAC-2006	-03606 Alcolu	Industrial and	Technology Par	:K

	,,,,,,
184	PROJECT LOCATION AND BACKGROUND INFORMATION: A +/- 141 acre site identified as Tax Map Sequence (TMS) #s -03-00-002-00 /184-02-00-001-00 located at 1154 Trinity Church Road off of Highway 521 just west of the I-95 interchange in Alcolu, rendon County, South Carolina  State: South Carolina  County/parish/borough: Clarendon County  City: Alcolu
	Center coordinates of site (lat/long in degree decimal format): Lat. 33.7467 °, Long80.2054°.  Universal Transverse Mercator: NAD 83
	Name of nearest waterbody: Unnamed tributary of Pocataligo River
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River  Name of watershed or Hydrologic Unit Code (HUC): 03040205-0404
	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: March 2, 2023  Field Determination. Date(s): December 8, 2015
SEC A.	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 lew 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	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.
	<ul> <li>a. Indicate presence of waters of U.S. in review area (check all that apply): <sup>1</sup></li> <li>TNWs, including territorial seas</li> <li>Wetlands adjacent to TNWs</li> </ul>
	Relatively permanent waters <sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  Non-RPWs that flow directly or indirectly into TNWs
	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
	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: (JT-2) 725 lf + (JT-2A) 59 lf = 784 lf. Wetlands: (JW-G) $0.224$ a. + (JW-H) $0.163$ a. + (JW-I) $0.059$ a. = $0.446$ acre.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM Elevation of established OHWM (if known):
	<ul> <li>Non-regulated waters/wetlands (check if applicable):<sup>3</sup>         Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain:         <ul> <li>.</li> </ul> </li> </ul>

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> 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).

<sup>&</sup>lt;sup>3</sup> 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<sup>4</sup> 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: Identify flow route to TNW5: Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> 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.

(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 <sup>6</sup> (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. 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:
Cha	mical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: tify specific pollutants, if known:

(iii)

<sup>&</sup>lt;sup>6</sup>A 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.

<sup>7</sup>Ibid.

	(iv)	Bio	logical 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	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Asical Characteristics:  General Wetland Characteristics:  Properties:  Wetland size: acres  Wetland type. Explain:  Wetland quality. Explain:  Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:  Surface flow is: Pick List
			Characteristics:  Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW  Project wetlands are Pick List river miles from TNW.  Project waters are Pick List aerial (straight) miles from TNW.  Flow is from: Pick List.  Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Cha	emical Characteristics: aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: attify specific pollutants, if known:
	(iii)	Bio	logical 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	wetland(s) being considered in the cumulative analysis: Pick List broximately ( ) 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):

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:
	Based on a review of the aerials, topographic map, information obtained during the site visit, and information included in
	the submittal, this tributary was determined to flow year-round. The aerials depict this tributary as a shaded linear
	feature, and the topographic map depicts a portion of this tributary as a blue line. Flow indicators observed during the
	site visit include a sinuous channel within bed and banks that was clear of leaf litter and debris and an OHWM.
	Therefore, JT-2/2A was determined to have perennial flow.

	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: (JT-2) 725 lf + (JT-2A) 59 lf = 784 lf.  Other non-wetland waters: acres.  Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> 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: Based on a review of the aerials, soil survey, NWIs and information submitted by the agent and obtained during the site visit, Jurisdictional Wetlands JW-G, JW-H, and JW-I were determined to directly abut pRPW JT-2/JT-2A. The aerials depict this wetlands as forested with a shaded linear feature intersecting their boundaries, and the soil survey maps these wetlands and the tributary as Paxville, a hydric soil. The NWIs map this area as palustrine forested wetlands (PFO1B). The site visit and information submitted by the agent confirmed that these three wetlands directly abut the on-site perennial 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).

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

Е.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10  which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.
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 sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: 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. S	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: SM&E, Inc.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. The Corps agrees with the conclusions of the submitted report and data
shee	USGS 8 and 12 digit HUC maps. 03040205-0404 Pocotaligo River  U.S. Geological Survey map(s). Cite scale & quad name: Submitted by agent titled "Topographic Exhibit" dated 7/5/2022.  USDA Natural Resources Conservation Service Soil Survey. Citation: Submitted by agent titled "Soils Exhibit" dated 7/5/2022.
	National wetlands inventory map(s). Cite name: Submitted by agent titled "NWI Exhibit" dated 7/5/2022.

 $<sup>^{10}</sup>$  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.

State/Local wetland inventory map(s): .
FEMA/FIRM maps: .
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
or 🖂 Other (Name & Date): <b>Submitted by agent as part of the JD request packet.</b>
Previous determination(s). File no. and date of response letter: SAC-2006-03606, letters dated April 11, 2007, and February 29,
6
Applicable/supporting case law: .
Applicable/supporting scientific literature:  Other information (please specify): Submitted by agent titled "LiDAR Exhibit" dated 7/5/2022. Corps visit 12/8/2015
Other information (please specify): Submitted by agent titled "LiDAR Exhibit" dated 7/5/2022. Corps visit 12/8/2015

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: Based on a review of the aerials, topographic map and information obtained during the site visit, this tributary was determined to flow year-round. The aerials depict this tributary as a shaded linear feature, and the topographic map depicts a portion of this tributary as a blue line. Flow indicators observed during the site visit include a sinuous channel within bed and banks that was clear of leaf litter and debris and an OHWM. Therefore, pRPW JT-2/JT-2A was determined to have perennial flow.

Based on a review of the aerials, soil survey, NWIs and information submitted by the agent and obtained during the site visit, Jurisdictional Wetlands JW-G, JW-H, and JW-I were determined to directly abut pRPW JT-2/JT-2A. The aerials depict this wetland as forested with a shaded linear feature intersecting their boundaries, and the soil survey maps these wetlands and the tributary as Paxville, a hydric soil. The NWIs map this area as palustrine forested wetlands (PFO1B). The site visit and information submitted by the agent confirmed that these three wetlands directly abut the on-site perennial RPW.

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

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

# **SECTION I: BACKGROUND INFORMATION**

# A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): March 2, 2023

R	DISTRICT OFFICE, FILE NAM	E AND NUMBER	<ul> <li>ID Form 2 of 4: SAC-2006-03606</li> </ul>	Alcolu Industrial and Technology Pa
ь.	DISTRICT OFFICE, FILE NAME	AND NUMBER	• JIJ FOHH & OF 4. BAC-2000-03000 /	AICOIU IIIUUSIIIAI AIIU TECIIIIOIOEVT

C. PROJECT LOCATION AND BACKGROUND INFORMATION: A +/- 141 acre site identified as Tax Map Sequence (TMS) #s 184-03-00-002-00 /184-02-00-001-00 located at 1154 Trinity Church Road off of HIghway 521 just west of the I-95 interchange in Alcolu, Clarendon County, South Carolina County/parish/borough: Clarendon County State: South Carolina City: Alcolu Center coordinates of site (lat/long in degree decimal format): Lat. 33.7467 °, Long. -80.2054°. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Unnamed tributary of Pocataligo River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River Name of watershed or Hydrologic Unit Code (HUC): 03040205-0404 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: March 2, 2023
Field Determination. Date(s): December 8, 2015 SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review 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. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There 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): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters<sup>2</sup> (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: (JW-A) 1.185 c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

# 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Elevation of established OHWM (if known):

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Two non-jurisdictional linear features, NJF-1 and NJF-2, are located between JW-A and pRPW JT-2 (JT-2 is documented on form 3 of 4). Based on a review of the aerials, topographic map and site visit, these features were

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> 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.

determined to be a non-jurisdictional agricultural/silvicultural drainage features. Furthermore, these features did not possess OHWMs nor has flow been observed.

# **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<sup>4</sup> 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:

# 

<sup>&</sup>lt;sup>4</sup> 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 <sup>5</sup> :  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 <sup>6</sup> (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. <sup>7</sup> 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:
Cha	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  Explain:
1der	tify specific pollutants, if known:

<sup>5</sup> 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)

<sup>&</sup>lt;sup>6</sup>A 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.

<sup>7</sup>Ibid.

(iv)	Biol	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. Ch	aract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)	Phy	vsical Characteristics:
()		General Wetland Characteristics:  Properties:  Wetland size: (JW-A) 1.185 acres  Wetland type. Explain: Palustrine Forested (PFO1B).  Wetland quality. Explain: The wetlands are fully functional.  Project wetlands cross or serve as state boundaries. Explain: The wetlands remain confined within project site and do
not cros	s or s	serve as state boundaries.
during t	. ,	General Flow Relationship with Non-TNW: Flow is: Ephemeral flow. Explain: The wetlands flow into the NJF-1 and NJF-2 after major storm events and et months.
	Cha	Surface flow is: Discrete and confined aracteristics: The wetland flows into the on-site pRPW JT-2 (documented on form 3 of 4) via NJF-1 and NJF-2.
		Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: The wetland flows into the on-site pRPW JT-2 (documented)
on form	3 of	Discrete wettand hydrologic connection. Explain. The wettand nows into the on-site pkr w 31-2 (documented 4) via NJF-1 and NJF-2.    Ecological connection. Explain:   Separated by berm/barrier. Explain:
	(d)	Proximity (Relationship) to TNW Project wetlands are 10-15 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 100 - 500-year floodplain.
(ii)	Cha	emical Characteristics:  bracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: The wetland has water present typically seen in blackwater systems. Land use in this watershed is comprised of approximately 43% agricultural land, 25% forested wetland, 23% forested land, and 6% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a moderate to high potential for growth in this watershed, which includes the City of Manning and the Towns of Paxville and Pinewood. US Interstate 95 crosses this watershed.
harvesti create a monitor there ar excursion	ll exising, to n inci ing si e sign	ntify specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the sets for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and to enter the wetland. Because this land use requires regular manipulation of the soils, agricultural activities can rease in suspended sediments in the downstream tributaries. According to the SCDHEC website, the downstream tation on the Pocotaligo River (PD-115) states that aquatic life and recreational uses are fully supported; however, inficant increasing trends in turbidity and fecal coliform bacteria concentrations. Although dissolved oxygen ecurred, they are typical of a blackwater system and are natural. A fish consumption advisory has been issued for the River in this watershed due to the presence of mercury.
·	) Bio	logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Palustrine forested. Vegetation type/percent cover. Explain: Acer rubrum (FAC), Liquidambar styraciflua (FAC), and Morella cerifera
(FAC).		Habitat for:

	<del></del>	lain findings: . r-sensitive species. Expla	in findings:	
3.	Aquatic/wildlife diver  Characteristics of all wetlands ad  All wetland(s) being considere  Approximately (12.5) acres in	jacent to the tributary (i	sis: 3	
	For each wetland, specify	the following:		
	Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
	N N	1.185 2.6	Y	8.7

Summarize overall biological, chemical and physical functions being performed: The wetlands are providing important biological, chemical, and physical functions. According to the SCDHEC Watersheds website, land use in this watershed is comprised of 43% agricultural land, 25% forested wetland, 23% forested land, and 6% urban land. The remaining land uses in this watershed includes scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a moderate to high potential for growth in this watershed, which includes the City of Manning and the Towns of Paxville and Pinewood. US Interstate 95 crosses this watershed. Due to the predominance of agricultural land use in this watershed, herbicides and other pollutants are likely to enter the tributary and downstream TNW. The wetlands act as a catch basin to help filter out pollutants from the neighboring uplands and to hold runoff prior to it flowing downstream into the TNW. Besides the obvious functions of stormwater attenuation, absorption, and overstory biomass input into the food web, the seasonal RPW provides a uniquely important ecological connection to the downstream TNW. NJF-1 and NJF-2 flow to the on-site pRPW that flows into the Pocotaligo River, a pRPW. The Pocotaligo River continues east where it flows into the Black River, a TNW. Therefore, this wetland has a significant nexus to the downstream TNW.

# 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: The on-site wetlands are performing important biological, chemical, and physical functions within a watershed comprised primarily of agricultural land use. The biological functions being performed include providing breeding grounds and shelter for aquatic animals and diversifying the plant life within the watershed. As a result, the waters of the US in the drainage area supply food sources for a variety of water dependent species, such as invertebrates, amphibians, reptiles and mammals. The wetlands are essential in providing organic carbons in the form of their collective primary productivity to downstream waters, resulting in the nourishment of the downstream food web. The chemical functions being performed consist of the removal of excess pollutants, which are contributed by runoff from the surrounding uplands, from the downstream TNW. This reduces nitrogen and phosphorus loading downstream and effectively prevents oxygen depletion that can result from eutrophication. Physically, the wetlands help reduce stormwater flow. Not only does this prevent the accumulation of sediment downstream, which can smother fish and other aquatic wildlife, but it also reduces the amount of pollutants downstream because these pollutants are usually transported by sediment particles. This wetland temporarily stores flood waters and reduce downstream peak flows. This helps to maintain seasonal flow volumes. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of the Black River, it has been determined that there is a significant nexus between the wetlands to the downstream TNW.

		significant nexus between the wetlands to the downstream TNW.				
D.		DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):				
	1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.				
	2.	<ul> <li>RPWs that flow directly or indirectly into TNWs.</li> <li>☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: PRPW is documented on Form 3 of 4.</li> <li>☐ 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:</li> </ul>				
		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 <sup>8</sup> 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:				

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

acres.

Provide acreage estimates for jurisdictional wetlands in the review area:

<sup>8</sup>See 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: <b>JW-A 1.185-</b> 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).
E.	SUC SUC C	LATED [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:
	Ider	tify water body and summarize rationale supporting determination:
		ide 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.		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):
	facto	ide 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 ment (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.
		ide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such ding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

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.

	Wetlands: acres.
<u>SECTIO</u>	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
	d requested, appropriately reference sources below):
$\boxtimes$	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: SM&E, Inc.
$\boxtimes$	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
	☑ Office concurs with data sheets/delineation report. The Corps agrees with the conclusions of the submitted report and data
sheets.	
_	Office does not concur with data sheets/delineation report.
	Data sheets prepared by the Corps:
	Corps navigable waters' study: 1977 Navigability Study.
$\boxtimes$	U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.
	USGS NHD data.
	☐ USGS 8 and 12 digit HUC maps. 03040205-0404 Pocotaligo River
	U.S. Geological Survey map(s). Cite scale & quad name: Submitted by agent titled "Topographic Exhibit" dated 7/5/2022.
M	USDA Natural Resources Conservation Service Soil Survey. Citation: Submitted by agent titled "Soils Exhibit" dated 7/5/2022.
	National wetlands inventory map(s). Cite name: Submitted by agent titled "NWI Exhibit" dated 7/5/2022.
H	State/Local wetland inventory map(s):
	FEMA/FIRM maps:
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): Submitted by agent titled "Aerial Exhibit" dated 7/5/2022.
$\boxtimes$	or Other (Name & Date): Submitted by agent as part of the JD request packet.  Previous determination(s). File no. and date of response letter: SAC-2006-03606, letters dated April 11, 2007, and February 29,
201	
201	Applicable/supporting case law: .
H	Applicable/supporting case law: Applicable/supporting scientific literature:
$\forall$	11 11 6
$\boxtimes$	Other information (please specify): Submitted by agent titled "LiDAR Exhibit" dated 7/5/2022. Corps visit 12/8/2015.

acres. List type of aquatic resource:

Lakes/ponds:

Other non-wetland waters:

acres.

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: Based on a review of the aerials, topographic map, soil survey, NWIs and information obtained during the site visit, the wetland labeled JW-A on the drawing was determined to be adjacent but not directly abutting to the pRPW JT-2 (documented on form 3 of 4). The NWI map shows this area as a palustrine forested wetlands (PFO1B) and palustrine scrubshrub wetlands (PSS1B), and the soil survey maps the non-abutting wetlands as Paxville, which is a hydric soil. The site visit confirmed that the wetland JW-A has a discrete and confined direct hydrological connection to the on-site pRPW JT-2 via a two non-jurisdictional ditches NJF-1 and NJF-2.