# 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): May 30, 2017

# B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 4; SAC 2007-00524 Black River Airport Industrial Park Site

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Sumter City: Center coordinates of site (lat/long in degree decimal format): Lat. 33.970091° N, Long. -80.362645° W. Universal Transverse Mercator:

Name of nearest waterbody: Shot Pouch Branch

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: The aquatic resource (Wetland J) remains confined within the project boundary and does not flow into a TNW.

# Name of watershed or Hydrologic Unit Code (HUC): 03040205-03

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. <u>REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):</u>

Office (Desk) Determination. Date:

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. Explain:

# 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): <sup>1</sup>
  - 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: acres.
- c. Limits (boundaries) of jurisdiction based on: Pick List, Pick List, Pick List Elevation of established OHWM (if known):N/A.
- 2. <u>Non-regulated waters/wetlands (check if applicable):</u><sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: One (1) isolated wetland, labeled Wetland J on the drawing, was assessed within the review area and determined to be a non-jurisdictional wetland. Wetland J totals approximately 0.58 acre. The topographic map

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

 $<sup>^{2}</sup>$  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.

depicts Wetland J as forested uplands within the project boundary and does not depict any blue lines or other potential Waters of the US near Wetland J. The aerials depict Wetland J as forested with no potential linear features within or adjacent to the boundary of this wetland. The NWIs depict Wetland J as palustrine forested wetlands (PFO4Bd), and the soil survey maps this wetland as Pantego, which is a hydric soil. This forested freshwater wetland was viewed during the site visit and determined to be completely surrounded by uplands. No linear features were observed during the site visit within or adjacent to this wetland boundary. No surface or shallow subsurface connections from Wetland J to any Waters of the US (WOUS) were viewed during the site visit. A review of a jurisdictional determination completed on this site (SAC 2007-00524, letter dated September 9, 2008) previously determined that this wetland is isolated.

This depressional wetland 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 this wetland had no discernible or traceable outfall or connection to any WOUS. Additionally, Wetland J was found to be completely surrounded by forested uplands which further disrupts possible connections to any WOUS. Chemically, this wetland does not affect any WOUS in the absorption/treatment of nutrients, runoff, or pollutants. Physically, the topographic location of this wetland is such that water in this wetland is retained and eventually percolates through the soil to groundwater only, at an unknown depth, providing little if any stormwater attenuation. Biologically, this wetland is 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, Wetland J was determined to be an isolated, non-jurisdictional wetland.

# 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

<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.

(i)	Wat Dra Ave	areal Area Conditions:         tershed size:       Pick List ;         inage area:       Pick List         brage annual rainfall:       inches         trage 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 are       Pick List aerial (straight) miles from RPW.         Project waters are       Pick List aerial (straight) miles from RPW.         Project waters are       Pick List aerial (straight) miles from RPW.         Project waters cross or serve as state boundaries. Explain: N/A.         Identify flow route to TNW <sup>5</sup> :         Tributary stream order, if known:
	(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Image: Characteristics (check all that apply):         Tributary is:       Image: Characteristics (check all that apply):         Matural       Image: Characteristics (check all that apply):         Matural       Image: Characteristics (check all that apply):         Manipulated (man-made).       Explain:         Image: Characteristic (check all that apply):       Image: Characteristic (check all that apply):         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       □         □       Concrete       □         □       Cobbles       □
		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)	<u>Flow:</u> Tributary provides for: <b>Pick List</b> Estimate average number of flow events in review area/year: <b>Pick List</b> 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):       the presence of litter and debris         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

<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.

	□ sediment deposition □ water staining □ other (list):	multiple observed or predicted flow events abrupt change in plant community
	Discontinuous OHWM. <sup>7</sup> Explain: .	
	<ul> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> </ul>	ateral extent of CWA jurisdiction (check all that apply): ean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
(iii)	<ul> <li>i) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, of Explain: Identify specific pollutants, if known:</li> </ul>	y film; water quality; general watershed characteristics, etc.).
( <b>iv</b> )	<ul> <li><b>Biological Characteristics. Channel supports (check all tha</b> <ul> <li>Riparian corridor. Characteristics (type, average width):</li> <li>Wetland fringe. Characteristics:</li> <li>Habitat for:</li> <li>Federally Listed species. Explain findings:</li> </ul> </li> </ul>	it apply):

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:

#### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

 (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:

#### (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed: .

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
  - Directly abutting
  - Not directly abutting
    - Discrete wetland hydrologic connection. Explain:
    - Ecological connection. Explain:
    - Separated by berm/barrier. Explain:
- (d) <u>Proximity (Relationship) to TNW</u> Project wetlands are **Pick List** river miles from TNW.
  Project waters are **Pick List** aerial (straight) miles from TNW.
  Flow is from: **Pick List**.
  Estimate approximate location of wetland as within the **Pick List** floodplain.

# (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: . Identify specific pollutants, if known: .

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian buffer. Characteristics (type, average width):

- Vegetation type/percent cover. Explain:
- Habitat for:

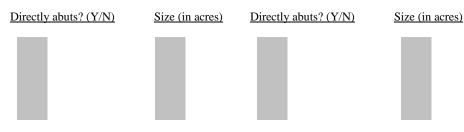
Federally Listed species. Explain findings:

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:



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:

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs:

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

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.

#### 2. **RPWs that flow directly or indirectly into TNWs.**

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
- Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
  - Identify type(s) of waters:

#### Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs. 3.

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):

acres.

- Tributary waters: linear feet width (ft).
  - Other non-wetland waters:
    - 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.

#### Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. 6.

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.
  - 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 É below).

Explain:

<sup>&</sup>lt;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.

	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup> 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:
L T	Other factors. Explain: dentify water body and summarize rationale supporting determination:
1	dentity water body and summarize rationale supporting determination.
F [ [	<ul> <li>Provide estimates for jurisdictional waters in the review area (check all that apply):</li> <li>Tributary waters: linear feet width (ft).</li> <li>Other non-wetland waters: acres.</li> <li>Identify type(s) of waters: .</li> <li>Wetlands: acres.</li> </ul>
[	<ul> <li><b>SON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</b></li> <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> <li>Prior to the Jan 2001 Supreme Court decision in <i>"SWANCC,"</i> the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).</li> <li>Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:</li> <li>Other: (explain, if not covered above):</li> </ul>
f j [	<ul> <li>Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR actors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional adgment (check all that apply):</li> <li>Non-wetland waters (i.e., rivers, streams): linear feet width (ft).</li> <li>Lakes/ponds: acres.</li> <li>Other non-wetland waters: acres. List type of aquatic resource: .</li> <li>Wetlands: (Wetland J) 0.58 acres.</li> </ul>
	<ul> <li>Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such finding is required for jurisdiction (check all that apply):</li> <li>Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).</li> <li>Lakes/ponds: acres.</li> <li>Other non-wetland waters: acres. List type of aquatic resource: .</li> <li>Wetlands: acres.</li> </ul>
<u>SEC1</u>	TON IV: DATA SOURCES.
a [] [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	<ul> <li>JPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked nd requested, appropriately reference sources below):</li> <li>Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and drawings by S&amp;ME, Inc.</li> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant.</li> <li>Office concurs with data sheets/delineation report.</li> <li>Office does not concur with data sheets/delineation report.</li> <li>Data sheets prepared by the Corps:</li> <li>Corps navigable waters' study:</li> <li>U.S. Geological Survey Hydrologic Atlas:</li> <li>USGS NHD data.</li> <li>USGS 8 and 12 digit HUC maps.</li> <li>U.S. Geological Survey map(s). Cite scale &amp; quad name: Sumter East; The topographic map depicts Wetland J as forested plands.</li> <li>USDA Natural Resources Conservation Service Soil Survey. Citation: Page 56; The soil survey maps Wetland J as Pantego, which is a hydric soil.</li> <li>National wetlands inventory map(s). Cite name: PFO4Bd; The NWIs depict Wetland J as a palustrine forested wetland. State/Local wetland inventory map(s):</li> <li>FEMA/FIRM maps:</li> </ul>

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,

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

- 100-year Floodplain Elevation is:
- (National Geodectic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): SCDNR 2006, 99:11204:100; The aerials depict the wetland as forested. or Other (Name & Date): Site photos provided by S&ME, Inc.

Previous determination(s). File no. and date of response letter: SAC 2007-00524-4JB; letter dated September 9, 2008. Applicable/supporting case law:

.

- Applicable/supporting scientific literature:
- Other information (please specify):
- B. ADDITIONAL COMMENTS TO SUPPORT JD: One (1) isolated wetland, labeled Wetland J on the drawing, was assessed within the review area and determined to be a non-jurisdictional wetland. Wetland J totals approximately 0.58 acre. The topographic map depicts Wetland J as forested uplands within the project boundary and does not depict any blue lines or other potential Waters of the US near Wetland J. The aerials depict Wetland J as forested with no potential linear features within or adjacent to the boundary of this wetland. The NWIs depict Wetland J as palustrine forested wetlands (PFO4Bd), and the soil survey maps this wetland as Pantego, which is a hydric soil. This forested freshwater wetland was viewed during the site visit and determined to be completely surrounded by uplands. No linear features were observed during the site visit within or adjacent to this wetland boundary. No surface or shallow subsurface connections from Wetland J to any Waters of the US (WOUS) were viewed during the site visit. A review of a jurisdictional determination completed on this site (SAC 2007-00524, letter dated September 9, 2008) previously determined that this wetland is isolated.

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

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### SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): May 30, 2017

# B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 2 of 4; SAC 2007-00524 Black River Airport Industrial Park Site

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Sumter City: Center coordinates of site (lat/long in degree decimal format): Lat. 33.970091° N, Long. -80.362645° W. Universal Transverse Mercator:

Name of nearest waterbody: Shot Pouch Branch

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River Name of watershed or Hydrologic Unit Code (HUC): 03040205-03

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  $\boxtimes$ 

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:

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. Explain:

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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]

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  - 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: 3,143 lf (pRPW Tributary 1A) + 2,087 lf (pRPW Tributary 1B) + 790 lf (pRPW Tributary 1C) = 6,020 linear feet: 20-25 width (ft) and/or 3.3 acres.

Wetlands: 0.37 a. (Jurisdictional Wetland A) + 0.29 a. (Jurisdictional Wetland B) + 0.50 a. (Jurisdictional Wetland C) = 1.16 acres.

# c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM., Pick List Elevation of established OHWM (if known):N/A.

#### 2. 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).

<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: Black River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 6, the Black River's recommended limit of navigability is located at River Mile (RM) 107.7, at its confluence with the Pocotaligo River. The project waters flow into Cane Savannah Creek and then into the Pocotaligo River, which enters the Black River at 107.7.

## 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 rainfal	l: inches
Average annual snowf	all: inches

### (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>

 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: 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.

	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):
	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)	<u>Flow:</u> Tributary provides for: <b>Pick List</b> Estimate average number of flow events in review area/year: <b>Pick List</b> Describe flow regime: . Other information on duration and volume: .
	Surface flow is: <b>Pick List.</b> Characteristics:
	Subsurface flow: Pick List. Explain findings: .
	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 beta down, bent, or absent the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away secour sediment deposition multiple observed or predicted flow events water staining beta beta beta beta beta beta beta beta
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>
Cha	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: https specific pollutants, if known:

<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. <sup>7</sup>Ibid.

#### (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. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: **Pick List** Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed:

- (c) Wetland Adjacency Determination with Non-TNW:
  - Directly abutting
  - Not directly abutting
    - Discrete wetland hydrologic connection. Explain:
    - Ecological connection. Explain:
    - Separated by berm/barrier. Explain:
- (d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List**.
Estimate approximate location of wetland as within the **Pick List** floodplain.

#### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

# (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:



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:

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs:

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

- 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: Shot Pouch Branch was determined to flow year-round based on a review of the aerials,

topographic map, soil survey, NWIs and information obtained during the site visit. The topographic map depicts Shot Pouch Branch as a named blue line, and the aerials depict it as a linear feature. The soil survey maps this tributary as Pantego, a hydric soil, and Lynchburg, a partially hydric soil. On site, the NWIs map this feature as palustrine emergent wetland (PEM1Ad). Further downstream, the feature is mapped palustrine scrub-shrub wetland (PSS3/1Bd). During the site visit, this linear feature was observed as having a bed and banks, flowing water present, an OHWM and other indicators of flow such as wrack lines and a lack of vegetation in the channel. Shot Pouch Branch continues south where it enters Green Swamp, a PRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues southeast where it enters the Black River, a TNW.

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: **3,143 lf (pRPW Tributary 1A)** + **2,087 lf (pRPW Tributary 1B)** + **790 lf (pRPW Tributary 1C)** = **6,020** linear feet **20-25** 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: **Based on a review of the aerials, topographic map, soil survey, NWIs and information obtained during the site visit, Wetlands A, B, and C were determined to be portions of a larger wetland system that directly abuts Shot Pouch Branch.** The topographic map depicts this area as forested; however, the aerials depict the southern portion of the wetland system as an impoundment. Wetlands A, B, and C are depicted as forested on the aerials. The soil survey maps this wetland system as Pantego, a hydric soil. The NWIs map this wetland system as palustrine scrub shrub wetlands (PSS4/1Bd). During the site visit, this wetland system was determined to directly abut Shot Pouch Branch.

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: 0.37 a. (Jurisdictional Wetland A) + 0.29 a. (Jurisdictional Wetland B) + 0.50 a. (Jurisdictional Wetland C) = 1.16 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. Demonstrate that impoundment was created from "waters of the U.S.," or

<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.

	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). <b>Explain:</b>
E.	<ul> <li>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):<sup>10</sup></li> <li>which are or could be used by interstate or foreign travelers for recreational or other purposes.</li> <li>from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.</li> <li>which are or could be used for industrial purposes by industries in interstate commerce.</li> <li>Interstate isolated waters. Explain:</li> <li>Other factors. Explain:</li> </ul>
	Identify water body and summarize rationale supporting determination:
	<ul> <li>Provide estimates for jurisdictional waters in the review area (check all that apply):</li> <li>Tributary waters: linear feet width (ft).</li> <li>Other non-wetland waters: acres. Identify type(s) of waters: .</li> <li>Wetlands: acres.</li> </ul>
F.	<ul> <li>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</li> <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> <li>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).</li> <li>Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:</li> <li>Other: (explain, if not covered above):</li> </ul>
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):           Non-wetland waters (i.e., rivers, streams):         linear feet         width (ft).           Lakes/ponds:         acres.           Other non-wetland waters:         acres. List type of aquatic resource:         .           Wetlands:         acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):           Non-wetland waters (i.e., rivers, streams):         linear feet,         width (ft).           Lakes/ponds:         acres.           Other non-wetland waters:         acres.           Wetlands:         acres.
<u>SEC</u>	CTION IV: DATA SOURCES.
<b>A.</b>	<ul> <li>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):</li> <li>Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and drawings by S&amp;ME, Inc; plat by Nesbitt Surveying Co., Inc</li> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant.</li> <li>Office concurs with data sheets/delineation report.</li> <li>Office does not concur with data sheets/delineation report.</li> <li>Data sheets prepared by the Corps:</li> <li>Corps navigable waters' study:</li> <li>U.S. Geological Survey Hydrologic Atlas:</li> <li>USGS NHD data.</li> <li>USGS 8 and 12 digit HUC maps.</li> </ul>

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

U.S. Geological Survey map(s). Cite scale & quad name: Sumter East; The topographic map depicts Wetlands A, B, and C as forested. Shot Pouch Branch is depicted as a solid blue line.

USDA Natural Resources Conservation Service Soil Survey. Citation: Page 56; The soil survey maps the wetlands and tributary as Pantego, which is a hydric soil.

National wetlands inventory map(s). Cite name: **PSS4/1Bd; The NWIs depict this wetland system as a palustrine scrub/shrub wetland**.

State/Local wetland inventory map(s):

FEMA/FIRM maps: .

 $\square$ 

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): SCDNR 2006, 99:11204:100; The aerials depict the wetlands as forested. or Other (Name & Date): Site photos provided by S&ME, Inc.

Previous determination(s). File no. and date of response letter: SAC 2007-00524-4JB; letter dated September 9, 2008.

Applicable/supporting case law:

Applicable/supporting scientific literature:

Other information (please specify):

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, Wetlands A, B, and C were determined to be portions of a larger wetland system that directly abuts Shot Pouch Branch. The topographic map depicts this area as forested; however, the aerials depict the southern portion of the wetland system as an impoundment. Wetlands A, B, and C are depicted as forested on the aerials. The soil survey maps this wetland system as Pantego, a hydric soil. The NWIs map this wetland system as palustrine scrub shrub wetlands (PSS4/1Bd). During the site visit, this wetland system was determined to directly abut Shot Pouch Branch.

C. Shot Pouch Branch was determined to flow year-round based on a review of the aerials, topographic map, soil survey, NWIs and information obtained during the site visit. The topographic map depicts Shot Pouch Branch as a named blue line, and the aerials depict it as a linear feature. The soil survey maps this tributary as Pantego, a hydric soil, and Lynchburg, a partially hydric soil. On site, the NWIs map this feature as palustrine emergent wetland (PEM1Ad). Further downstream, the feature is mapped palustrine scrub-shrub wetland (PSS3/1Bd). During the site visit, this linear feature was observed as having a bed and banks, flowing water present, an OHWM and other indicators of flow such as wrack lines and a lack of vegetation in the channel. Shot Pouch Branch continues south where it enters Green Swamp, a PRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues southeast where it enters the Black River, a TNW.

# 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): May 30, 2017

## B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 3 of 4; SAC 2007-00524 Black River Airport Industrial Park Site

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Sumter City: Center coordinates of site (lat/long in degree decimal format): Lat. 33.970091° N, Long. -80.362645° W. Universal Transverse Mercator:

Name of nearest waterbody: Unnamed tributary of Shot Pouch Branch

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River Name of watershed or Hydrologic Unit Code (HUC): 03040205-03

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  $\boxtimes$ 

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:
- $\square$ 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. Explain:

# 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): <sup>1</sup>
  - 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: (SRPW Tributary 2) 44 linear feet: 10 width (ft) and/or 0.01 acres.

Wetlands: 0.21 a. (Jurisdictional Wetland D) + 4.41 a. (Jurisdictional Wetland E) + 0.44 a. (Jurisdictional Wetland F) +

0.30 a. (Jurisdictional Wetland G) + 0.82 a. (Jurisdictional Wetland H) + 0.88 a. (Jurisdictional Wetland I) = 7.06 acres.

- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM., Pick List Elevation of established OHWM (if known):N/A.
- 2. 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: Several linear features were assessed within the review area and determined to be non-jurisdictional. These linear features were excavated adjacent to agricultural fields and unpaved roads and did not have an OHWM.

<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.

Therefore, these were determined to be non-jurisdictional ditches and are depicted on the plat as "Non-Jurisdictional Linear Conveyance" (i.e. NJLC).

# 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: Black River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 6, the Black River's recommended limit of navigability is located at River Mile (RM) 107.7, at its confluence with the Pocotaligo River. The project waters flow into Cane Savannah Creek and then into the Pocotaligo River, which enters the Black River at 107.7.

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: 88,147 acres; HUC 03040205-03 Drainage area: 44 acres Average annual rainfall: 48.52 inches Average annual snowfall: 0.2 inches

# (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ⊠ Tributary flows through 4 tributaries before entering TNW.

Project waters are20-25 river miles from TNW.Project waters are1 (or less) river miles from RPW.Project waters are15-20 aerial (straight) miles from TNW.

<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.

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

Identify flow route to TNW<sup>5</sup>: **SRPW #2 flows into Shot Pouch Branch, a pRPW. Shot Pouch Branch continues south where it flows into Green Swamp, a pRPW, which flows into Cane Savannah Creek and becomes Pocotaligo River, a pRPW. The Pocotaligo River continues southeast where it enters the Black River, a TNW**. Tributary stream order, if known: **The tributary is a 1**<sup>st</sup> **order stream**.

(b) <u>General Tributary Characteristics (check all that apply):</u>

Tributary is:	🖂 Natural					
•	Artificial (r	nan-made).	Explain:			
	Manipulate	d (man-alte	red). Explain:	: .		
Tributary properti	es with respect	to top of bar	nk (estimate):			
Average width	10 feet					
Average depth	: 8 feet					
Average side s	slopes: Vertical	(1:1 or less	).			
Primary tributary si	ubstrate compos	sition (check	all that apply	):		
🛛 Silts	$\boxtimes S$	ands			Concrete	
Cobbles	🗌 G	bravel			Muck	
Bedrock	$\Box v$	'egetation. 7	Гуре/% cover:			
Other. Exp	lain: .					

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: N/A. Tributary geometry: **Relatively straight.** Tributary gradient (approximate average slope): **0-1** %

(c) Flow:

#### Tributary provides for: Seasonal flow

Estimate average number of flow events in review area/year: 11-20

Describe flow regime: The tributary receives discrete and confined flow from the upstream non-jurisdictional

# ditches.

Other information on duration and volume: The tributary also receives flow from upstream wetlands that flow directly into the non-jurisdictional ditches.

Surface flow is: Discrete and confined. Characteristics:
Subsurface flow: Unknown. Explain findings: . Dye (or other) test performed: .
Tributary has (check all that apply):
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> </ul> <ul> <li>Mean High Water Mark indicated by:</li> <li>survey to available datum;</li> <li>physical markings/characteristics</li> </ul>

<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. <sup>7</sup>Ibid.



(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The tributary is located within the Cane Savannah Creek Watershed (HUC 03040205-03). This watershed is comprised of 26.2% forested land, 24.5% agricultural land, 24.4% urban land, 22.6% forested wetland, 1.1% nonforested wetland, 0.8% water, and 0.4% barren land.

Identify specific pollutants, if known: According to the SCDHEC Watershed Assessment, a review of the downstream monitoring station located on Green Swamp (PD-039) shows that this site does not support aquatic life uses due to dissolved oxygen excursions. Recreational uses are supported; however, there is a significant increasing trend in fecal coliform bacteria concentrations. There is also a significant increasing trend in pH.

- (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: This seasonal RPW provides important habitat and a corridor for wildlife, as well as a connection to the downstream TNW for aquatic species.

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

- (i) Physical Characteristics:
  - (a) General Wetland Characteristics:
    - Properties:

acres

Wetland type. Explain: **Palustrine forested**. Wetland quality. Explain: **Fully functional**. Project wetlands cross or serve as state boundaries. Explain: **N/A**.

(b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete and confined

Characteristics: These wetlands are connected to the downstream sRPW via non-jurisdictional ditches.

Subsurface flow: **Unknown**. Explain findings: Dye (or other) test performed:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
  - Directly abutting
  - Not directly abutting

Discrete wetland hydrologic connection. Explain: Wetlands D, E, F, G, H, and I have a direct hydrological connection to the downstream sRPW via non-jurisdictional ditches.

- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- (d) Proximity (Relationship) to TNW
  - Project wetlands are **20-25** river miles from TNW. Project waters are **15-20** 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) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Water present on the surface of the wetlands was typical of blackwater seen in this area. These wetlands are located within the Cane Savannah Creek Watershed (HUC 03040205-03). This watershed is comprised of 26.2% forested land, 24.5% agricultural land, 24.4% urban land, 22.6% forested wetland, 1.1% nonforested wetland, 0.8% water, and 0.4% barren land.

Identify specific pollutants, if known: According to the SCDHEC Watershed Assessment, a review of the downstream monitoring station located on Green Swamp (PD-039) shows that this site does not support aquatic life uses due to dissolved

oxygen excursions. Recreational uses are supported; however, there is a significant increasing trend in fecal coliform bacteria concentrations. There is also a significant increasing trend in pH.

# (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain: Acer rubrum (FAC), Liquidambar styraciflua (FAC), and Pinus taeda

(FAC).

- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:

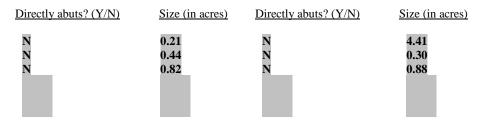
Aquatic/wildlife diversity. Explain findings: These wetlands provide important aquatic habitat in a watershed predominately consisting of forested uplands and agricultural fields.

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

All wetland(s) being considered in the cumulative analysis: 6

Approximately (7.06) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:



Summarize overall biological, chemical and physical functions being performed: The 1st order seasonal RPW and the approximately 7 acres of wetlands located adjacent to this seasonal RPW contribute vital biological, chemical, and physical functions to the downstream TNW. These wetlands and the sRPW make up an important ecological system with vital aquatic habitat that supports an abundance of wildlife in a watershed that consists predominately of agricultural land and forested uplands. Due to the prevalence of agriculture land use in this watershed, these wetlands and the adjacent sRPW are acting as a catch basin for the adjacent uplands by filtering sediments, herbicides, and other pollutants and by reducing the amount of flood waters reaching 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 onsite wetlands labeled Jurisdictional Wetlands D, E, F, G, H, and I on the plat are contributing vital biological, chemical, and physical functions to the downstream TNW. These wetlands are providing important aquatic habitat used for feeding, nesting, and other functions that support wildlife in a watershed dominated by uplands, urban land and agricultural fields. These wetlands are also acting as catch basins for the adjacent uplands by filtering sediments, herbicides, and other pollutants and by reducing the amount of flood waters that reach the downstream TNW. Due to the prevalence of agricultural land use and forested land in this watershed, the seasonal RPW #2 and the adjacent wetlands are a vital part of the 40 acre drainage area and were determined to have a significant nexus to the downstream TNW.

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs:

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

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. <u>RPWs that flow directly or indirectly into TNWs.</u>

- 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: This tributary was determined to have seasonal flow based on a review of the aerials, topo map, soil survey, NWIs, and a site visit. The topographic map does not depict this tributary; however, the aerials depict it as a shaded linear feature with upstream linear features determined to be non-jurisdictional ditches flowing into it. The soil survey depicts this tributary as Lynchburg, which is partially hydric, and the NWIs map this tributary as palustrine wetlands (PSS4Ad). During the site visit, a headcut downstream of the non-jurisdictional ditches was observed and determined to be the upstream limit of the seasonal RPW. This tributary had an OHWM, sediment sorting, disturbed leaf litter and debris, and a lack of terrestrial vegetation as flow indicators. This tributary flows into Shot Pouch Branch, a pRPW, which flows south into Green Swamp. Green Swamp, a PRPW, flows into Cane Savannah Branch, a pRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues flowing southeast where it enters the Black River, a TNW.

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: 44 lf (sRPW Tributary 2) linear feet 10 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):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:

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: 0.21 a. (Jurisdictional Wetland D) + 4.41 a. (Jurisdictional Wetland E) + 0.44 a. (Jurisdictional Wetland F) + 0.30 a. (Jurisdictional Wetland G) + 0.82 a. (Jurisdictional Wetland H) + 0.88 a. (Jurisdictional Wetland I) = 7.06 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.
- 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).

**Explain**:

## E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):<sup>10</sup>

- 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 <u>solely</u> on the *"Migratory Bird Rule"* (MBR).



aters	s do	not	meet	the	"Significant	Nexus"	standard,	where s	uch a	finding	is requi	red for	jurisdiction.	Explain:	
.1	/		• •												

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
 Lakes/ponds: acres.

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

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

	Other non-wetland waters:acres. List type of aquatic resource:Wetlands:acres.
a fin	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). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
<u>SECTIO</u>	N IV: DATA SOURCES.
and t Nest S C C C C C C C C C C C C C C C C C C	<b>CORTING DATA. Data reviewed for JD (check all that apply -</b> 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: Report and drawings by S&ME, Inc; plat by oitt Surveying Co., Inc         Data sheets prepared/submitted by or on behalf of the applicant/consultant.         Office concurs with data sheets/delineation report.         Office does not concur with data sheets/delineation report.         Data sheets prepared/submitted by or on behalf of the applicant/consultant.         Corps navigable waters' study:         U.S. Geological Survey Hydrologic Atlas:         USGS NHD data.         USGS NHD data.         USDA Natural Resources Conservation Service Soil Survey. Citation: Page 56; The soil survey maps the wetlands and utary asLynchburg, which is partially hydric.         National wetlands inventory map(s). Cite name: PSS4Ad & PSS1/4Bd; The NWIs depict these wetlands as palustrine b/shrub wetlands.         State/Local wetland inventory map(s):         FEMA/FIRM maps:         100-year Floodplain Elevation is:       (National Geodectic Vertical Datum of 1929)         Photographs:       Aerial (Name & Date):       Site photos provided by &&ME, Inc.         Previous determination(s). File no. and date of response letter:       SAC 2007-00524-4JB; letter dated September 9, 2008.         Applicable/supporting case law:       Applicable/supporting case law

B. ADDITIONAL COMMENTS TO SUPPORT JD: The onsite tributary labeled SRPW #2 was determined to have seasonal flow based on a review of the aerials, topo map, soil survey, NWIs, and a site visit. The topographic map does not depict this tributary; however, the aerials depict it as a shaded linear feature with upstream linear features determined to be non-jurisdictional ditches flowing into it. The soil survey depicts this tributary as Lynchburg, which is partially hydric, and the NWIs map this tributary as palustrine wetlands (PSS4Ad). During the site visit, a headcut downstream of the non-jurisdictional ditches was observed and determined to be the upstream limit of the seasonal RPW. This tributary had an OHWM, sediment sorting, disturbed leaf litter and debris, and a lack of terrestrial vegetation as flow indicators. This tributary flows into Shot Pouch Branch, a pRPW, which flows south into Green Swamp. Green Swamp, a PRPW, flows into Cane Savannah Branch, a pRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues flowing southeast where it enters the Black River, a TNW. Jurisdictional Wetlands D, E, F, G, H, and I were determined to have a significant nexus to the downstream TNW in Section IIIC above.

# 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): May 30, 2017

## B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 4 of 4; SAC 2007-00524 Black River Airport Industrial Park Site

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Sumter City: Center coordinates of site (lat/long in degree decimal format): Lat. 33.970091° N, Long. -80.362645° W. Universal Transverse Mercator:

Name of nearest waterbody: Unnamed tributary of Shot Pouch Branch

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River Name of watershed or Hydrologic Unit Code (HUC): 03040205-03

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  $\boxtimes$ 

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:
- $\square$ 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. Explain:

# **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): <sup>1</sup>
  - 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: (SRPW Tributary 3) 2,202 linear feet: 10width (ft) and/or 0.51 acres. Wetlands: acres.

c. Limits (boundaries) of jurisdiction based on: Established by OHWM., Pick List, Pick List Elevation of established OHWM (if known):N/A.

#### 2. 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).

<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: Black River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 6, the Black River's recommended limit of navigability is located at River Mile (RM) 107.7, at its confluence with the Pocotaligo River. The project waters flow into Cane Savannah Creek and then into the Pocotaligo River, which enters the Black River at RM 107.7.

# 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: **88,147** acres ; HUC 03040205-03 Drainage area: **98** acres Average annual rainfall: **48.52** inches Average annual snowfall: **0.2** inches

# (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>

 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 4 tributaries before entering TNW.

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<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.

<ul> <li>(b) <u>General Tributary Characteristics (check all that apply):</u>         Tributary is: □ Natural         □ Artificial (man-made). Explain: .         □ Manipulated (man-altered). Explain: The SRPW 3 has been straightened to flow along the property boundary.     </li> </ul>
property boundary.
Tributary properties with respect to top of bank (estimate): Average width: 10 feet Average depth: 8 feet Average side slopes: Vertical (1:1 or less).
Primary tributary substrate composition (check all that apply):       Image: Concrete state
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: N/A. Tributary geometry: <b>Relatively straight.</b> Tributary gradient (approximate average slope): <b>0-1</b> %
<ul> <li>(c) Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 11-20 Describe flow regime: The tributary receives flow from uplands upstream. Other information on duration and volume: Surface flow is: Discrete and confined. Characteristics:</li> </ul>
Subsurface flow: Unknown. Explain findings:
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): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul> <li>(iii) Chemical Characteristics:</li>

<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. <sup>7</sup>Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The tributary is located within the Cane Savannah Creek Watershed (HUC 03040205-03). This watershed is comprised of 26.2% forested land, 24.5% agricultural land, 24.4% urban land, 22.6% forested wetland, 1.1% nonforested wetland, 0.8% water, and 0.4% barren land.

Identify specific pollutants, if known: According to the SCDHEC Watershed Assessment, a review of the downstream monitoring station located on Green Swamp (PD-039) shows that this site does not support aquatic life uses due to dissolved oxygen excursions. Recreational uses are supported; however, there is a significant increasing trend in fecal coliform bacteria concentrations. There is also a significant increasing trend in pH.

# (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: This seasonal RPW provides important habitat and a corridor for wildlife, as well as a connection to the downstream TNW for aquatic species.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

 (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

(b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: **Pick List** Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting
 Not directly abutting

Discrete wetland hydrologic connection. Explain:

- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- (d) Proximity (Relationship) to TNW
  - Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: . Identify specific pollutants, if known: .

#### (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:



Summarize overall biological, chemical and physical functions being performed: **The 1st order seasonal RPW is** contributing vital biological, chemical, and physical functions to the downstream TNW. The sRPW makes up an important ecological system with vital aquatic habitat that supports an abundance of wildlife in a watershed that consists predominately of agricultural land and forested uplands. Due to the prevalence of agriculture land use in this watershed, this sRPW is acting as a catch basin for the adjacent uplands by filtering sediments, herbicides, and other pollutants and by reducing the amount of flood waters reaching 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:

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs: The onsite seasonal RPW labeled "Jurisdictional sRPW Tributary 3" on the plat is contributing vital biological, chemical, and physical functions to the downstream TNW. This tributary is providing important aquatic habitat used for feeding, nesting, and other functions that support wildlife in a watershed dominated by uplands, urban land and agricultural fields. This tributary is also acting as a catch basin for the adjacent uplands by filtering sediments, herbicides, and other pollutants and by reducing the amount of flood waters that reach the downstream TNW. Due to the prevalence of agricultural land use and forested land in this watershed, the seasonal RPW #3 is a vital part of the 98 acre drainage area and was determined to have a significant nexus to the downstream TNW.

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

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: 1. TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
- RPWs that flow directly or indirectly into TNWs. 2.
  - 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: This tributary was determined to have seasonal flow based on a review of the aerials, topo map, soil survey, and a site visit. The topographic map depicts this tributary as a solid blue line, and the aerials depict it as a shaded linear feature. The soil survey depicts this tributary as Coxville, which is a hydric soil. During the site visit, this tributary was observed as having an OHWM, sediment sorting, disturbed leaf litter and debris, and a lack of terrestrial vegetation as flow indicators. This tributary flows into Shot Pouch Branch, a pRPW, which flows south into Green Swamp. Green Swamp, a PRPW, flows into Cane Savannah Branch, a pRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues flowing southeast where it enters the Black River, a TNW.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: 2,202 lf (sRPW Tributary 3) linear feet 10 width (ft).
- Other non-wetland waters: acres.
  - Identify type(s) of waters:

#### Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs. 3.

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.

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

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

#### Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. 6.

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.

#### Impoundments of jurisdictional waters.9 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).
- **Explain:**

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):10

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:

## Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: width (ft). linear feet
- Other non-wetland waters: acres.
- Identify type(s) of waters:
- Wetlands: acres

#### NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): F

- 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): width (ft). linear feet, Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.

### SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **Report and drawings by S&ME, Inc; plat by** Nesbitt Surveying Co., Inc.  $\bowtie$ 

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

- Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters' study:

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

<sup>&</sup>lt;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.

	U.S. Geological Survey Hydrologic Atlas:
	USGS NHD data.
	USGS 8 and 12 digit HUC maps.
$\bowtie$	U.S. Geological Survey map(s). Cite scale & quad name: Sumter East; The topographic map depicts the tributary as a solid
blue	e line.
$\boxtimes$	USDA Natural Resources Conservation Service Soil Survey. Citation: Page 56; The soil survey maps the tributary as Coxville,
whi	ch is a hydric soil.
$\boxtimes$	National wetlands inventory map(s). Cite name: The tributary is mapped uplands (U42P).
	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): SCDNR 2006, 99:11204:100; The aerials depict the tributary as a shaded linear
feat	ure.
	or 🔀 Other (Name & Date): Site photos provided by S&ME, Inc.
$\boxtimes$	Previous determination(s). File no. and date of response letter: SAC 2007-00524-4JB; letter dated September 9, 2008.
	Applicable/supporting case law:
	Applicable/supporting scientific literature:
$\square$	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: The onsite tributary, labeled Jurisdictional SRPW Tributary 3 on the plat, was determined to have seasonal flow based on a review of the aerials, topo map, soil survey, and a site visit. The topographic map depicts this tributary as a solid blue line, and the aerials depict it as a shaded linear feature. The soil survey depicts this tributary as Coxville, which is a hydric soil. During the site visit, this tributary was observed as having an OHWM, sediment sorting, disturbed leaf litter and debris, and a lack of terrestrial vegetation as flow indicators. This tributary flows into Shot Pouch Branch, a pRPW, which flows south into Green Swamp. Green Swamp, a PRPW, flows into Cane Savannah Branch, a pRPW, which flows into the Pocotaligo River, a PRPW. The Pocotaligo River continues flowing southeast where it enters the Black River, a TNW.