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.

REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): May 18, 2018 B. DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 1 of 4; SAC-2017-00244 306-Acre US 221/Floyd Road Site C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: **Spartanburg** City: Spartanburg Center coordinates of site (lat/long in degree decimal format): Lat. 34.99709°N, Long. 81.90044°W. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Peters Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Broad River Name of watershed or Hydrologic Unit Code (HUC): 03050105-15 Pacolet River, 03050105-14 Lawsons Fork Creek. Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: May 17, 2018 Field Determination. Date(s): March 29, 2017 **SECTION II: SUMMARY OF FINDINGS** A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: Stream J = 391 linear feet, Stream K = 233 linear feet.

c. Limits (boundaries) of jurisdiction based on: Established by OHWM., Pick List, Pick List

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable): ³ [Including potentially jurisdictional features that upon assessment are NOT waters or wetlands]

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

Wetlands:

SECTION I: BACKGROUND INFORMATION

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

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

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

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

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

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

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

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

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

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

(i) General Area Conditions:

Watershed size: 141,876 acres; HUC 03050105-15 Pacolet River

Drainage area: Stream J = 18.22 acres, Stream K = 21.61 acres.

Average annual rainfall: **49** inches Average annual snowfall: **2** inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

☐ Tributary flows through 3 tributaries before entering TNW.

Project waters are 30 (or more) river miles from TNW.

Project waters are 1-2 river miles from RPW.

Project waters are 25-30 aerial (straight) miles from TNW.

Project waters are 1-2 aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Unnamed tributary to Peters Creek flows to Peters Creek, which flows to Pacolet River, which flows to the Broad River (Traditional Navigable Water).

Tributary stream order, if known: .

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

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

(0)	Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: According to the Soil Survey of Spartanburg County, the predominant soils in Stream J and Stream K consisted of Cecil and Cecil-Bethlehem complex series. Cecil and Cecil-Bethlehem complex soils are well drained.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: None observed. Tributary geometry: Relatively straight. Tributary gradient (approximate average slope):
(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: Pick List Describe flow regime: Stream J and Stream K flow seasonally during normal conditions. Other information on duration and volume: Stream J and Stream K are located onsite and are labeled as drainage features on the topo map and as intermittent on the soil survey. These tributaries have a clear OHWM and a distinct channel.
	Surface flow is: Discrete and confined. Characteristics: Stream J and Stream K flow in a channel during normal conditions.
	Subsurface flow: Unknown. Explain findings:
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:
	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Stream J and Stream K are located near forested land and residential development. Land use/land cover

(iii)

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

Tibid.

in the watershed includes: 51.6% forested land, 32.6% agricultural land, 11.0% urban land, 1.9% forested wetland, 1.1% water, 1.0% scrub/shrub land, 0.8% barren land.

Identify specific pollutants, if known: The tributaries are located near forested land and residential development. There are possible pollutants from roads, cars, fertilizer, etc.

(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: Tributaries provide spawning areas for aquatic wildlife. 			
Other environmentally-sensitive species. Explain findings:			
Aquatic/wildlife diversity. Explain findings: Tributaries provide habitat for wildlife in the area.			
Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW			
(i) Physical Characteristics:			
(a) General Wetland Characteristics: Properties:			
Wetland size:			
Wetland type. Explain:			
Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:			
Troject wettailus cross or serve as state boundaries. Explain.			
(b) General Flow Relationship with Non-TNW:			
Flow is: Pick List. Explain:			
Surface flow is: Pick List			
Characteristics:			
Subsurface flow: Pick List . Explain findings: .			
Dye (or other) test performed: .			
(c) Wetland Adjacency Determination with Non-TNW:			
☐ Directly abutting			
☐ Not directly abutting			
☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain:			
Separated by berm/barrier. Explain: .			
(d) <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:			
identify specific polititants, 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:			
Characteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List			
An wedand(s) being considered in the cumulative analysis. Fick List Approximately () acres in total are being considered in the cumulative analysis.			
For each wetland, specify the following:			
<u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u>			

2.

3.



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: Stream J and Stream K are located along the southern border of the property and are performing a variety of functions that related to the physical, chemical, and biological integrity of the TNW. A variety of biological functions are being performed by the seasonal RPWs, which include providing breeding grounds and shelter for aquatic wildlife and foraging areas for water dependent species and other wildlife. The chemical functions include waste filtration for the surrounding forested and residential areas. These tributaries provide diversity through vegetation changes, and where the aquatic system adjoins the adjacent uplands. The physical functions of the tributaries include flow maintenance by retaining runoff and storm water during times of heavy rain and during the wetter months.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable water of the Broad River, it has been determined that there is a significant nexus between the relevant reach of the tributaries to the downstream TNW.

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

1.	TNWs and A	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: Stream J and Stream K are located onsite and are labeled as drainage features on the topo map and as intermittent on the soil survey. The seasonal streams had signs of relatively permanent flow that includes a clear OHWM, a distinct channel, bed and bank. The tributaries were observed flowing during flagging and during the Corps site visit; however, the flow was not continuous throughout the channel. Stream characteristics observed and available data led this office to conclude the tributaries have a seasonal flow regime.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: Stream J = 391 linear feet, Stream K = 233 linear feet.
	Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary i 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:
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. 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:

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

ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10
which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:
Other factors. Explain:
Identify water body and summarize rationale supporting determination:
Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . Wetlands: acres.
NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
CTION IV: DATA SOURCES.
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: Terracon Consultants. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: 1977 Navigability Study. U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990. USGS NHD data. USGS 8 and 12 digit HUC maps. HUC 03050105-15 Pacolet River, HUC 03050105-14 Lawsons Fork Creek. U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Spartanburg. USDA Natural Resources Conservation Service Soil Survey. Citation: SSURGO 2017, Appling, Cecil, Cecil-Bethlehem, Chewacla, Urban Land-Cecil, Hard Labor, Pacolet-Hard Labor, Toccoa. National wetlands inventory map(s). Cite name: PUBHh, R4SBC, PFO1B. State/Local wetland inventory map(s). FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Google Earth Aerial October 30, 2017.

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

	or 🛮 Other (Name & Date): Photos 1-18 of 18 provided by the consultant dated September 20 and 21, 2016,
	photos 1-15 of 15 provided by the consultant dated May 3, May 12, and June 7, 2017, photos 1-73 of 73 provided
	by USACE dated March 29, 2017.
\boxtimes	Previous determination(s). File no. and date of response letter: Preliminary JD SAC-2017-00244 dated January 2, 2018.
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
\boxtimes	Other information (please specify): Corps Site Visit.
	Applicable/supporting case law: Applicable/supporting scientific literature:

B. ADDITIONAL COMMENTS TO SUPPORT JD: This JD form documents the jurisdictional status of two seasonal RPWs that flow directly or indirectly into TNWs. Based on guidance provided, RPWs are jurisdictional; however, a Significant Nexus Evaluation was performed for the two seasonal RPWs for the record. The two seasonal RPWs documented on this form are waters of the U.S. and jurisdictional under the Clean Water Act.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): May 18, 2018

B. DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 2 of 4; SAC-2017-00244 306-Acre US 221/Floyd Road Site

в.	DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD FORM 2 01 4; SAC-2017-00244 500-ACTE US 221/F10ya Road Site
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: Spartanburg City: Spartanburg Center coordinates of site (lat/long in degree decimal format): Lat. 34.99709°N, Long. 81.90044°W. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Peters Creek
	Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Broad River Name of watershed or Hydrologic Unit Code (HUC): 03050105-15 Pacolet River, 03050105-14 Lawsons Fork Creek. Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: May 17, 2018 ☐ Field Determination. Date(s): March 29, 2017
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): ¹ □ TNWs, including territorial seas □ Wetlands adjacent to TNWs □ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs □ Non-RPWs that flow directly or indirectly into TNWs □ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs □ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs □ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs □ Impoundments of jurisdictional waters □ Isolated (interstate or intrastate) waters, including isolated wetlands
	 b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: Stream A = 587 linear feet, Stream B = 207 linear feet, Stream H = 641 linear feet, Pond A = 0.51 acre. Wetlands: Wetland A = 2.26 acres, Wetland B = 0.03 acre. c. Limits (boundaries) of jurisdiction based on: Established by OHWM., 1987 Delineation Manual, Pick List
	Elevation of established OHWM (if known):

2. Non-regulated waters/wetlands (check if applicable): ³ [Including potentially jurisdictional features that upon

assessment are NOT waters or wetlands]

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

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

³ Supporting documentation is presented in Section III.F.

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

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

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

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

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

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

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

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

(i) General Area Conditions:

Watershed size: 141.876 acres: HUC 03050105-15 Pacolet River.

Drainage area: **Stream B = 11.61 acres.**

Average annual rainfall: **49** inches Average annual snowfall: **2** inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through 3 tributaries before entering TNW.

Project waters are 30 (or more) river miles from TNW.

Project waters are 1-2 river miles from RPW.

Project waters are 25-30 aerial (straight) miles from TNW.

Project waters are 1-2 aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

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

	River, which flows to the Broad River (Traditional Navigable Water). Tributary stream order, if known:
(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: .
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: According to the Soil Survey of Spartanburg County, the predominant soils in Stream B consisted of Appling series. Appling soils are well drained.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: None observed. Tributary geometry: Relatively straight. Tributary gradient (approximate average slope): %
(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: Pick List Describe flow regime: Stream B flows seasonally during normal conditions. Other information on duration and volume: Stream B is located onsite and are labeled as a blue line on the topo map and as intermittent on the soil survey. This tributary has a clear OHWM and a distinct channel.
	Surface flow is: Discrete and confined. Characteristics: Stream B flows in a channel during normal conditions.
	Subsurface flow: Unknown. Explain findings:
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation in the presence of wack line sediment sorting sediment deposition destruction of terrestrial vegetation in the presence of wack line sediment sorting sediment deposition destruction of terrestrial vegetation in the presence of wack line sediment sorting sediment sorting sediment deposition destruction of terrestrial vegetation in the presence of wack line sediment sorting sediment sorting sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting sediment sorting destruction of terrestrial vegetation in the presence of litter and debris destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of litter and debris destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of litter and debris destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation in the presence of wack line sediment sorting destruction of terrestrial vegetation destruction of terrestrial vegetation destruction of terrestrial vegetation destruction of terrestrial vegetation destruction of terrestri
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list): Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
Che	emical Characteristics:

Identify flow route to TNW⁵: Unnamed tributary to Peters Creek flows to Peters Creek, which flows to Pacolet

(iii)

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Stream B is located near forested land and residential development. Land use/land cover in the watershed includes: 51.6% forested land, 32.6% agricultural land, 11.0% urban land, 1.9% forested wetland, 1.1% water, 1.0% scrub/shrub land, 0.8% barren land. Identify specific pollutants, if known: The tributary is located near forested land and residential development. There are possible pollutants from roads, cars, fertilizer, etc. (iv) Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: \boxtimes Habitat for: Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: **Tributary provides spawning areas for aquatic wildlife.** Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: **Tributary provides habitat for wildlife in the area.** Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW **Physical Characteristics:** (a) General Wetland Characteristics: Properties: Wetland size: Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain: (b) General Flow Relationship with Non-TNW: Flow is: **Pick List**. Explain: Surface flow is: Pick List Characteristics: Subsurface flow: Pick List. Explain findings: Dye (or other) test performed: (c) Wetland Adjacency Determination with Non-TNW: Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain: (d) Proximity (Relationship) to TNW Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the **Pick List** floodplain. (ii) Chemical Characteristics: Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Identify specific pollutants, if known: (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: Characteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List

For each wetland, specify the following:

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



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: Stream B is located along the northern border of the property onsite and is performing a variety of functions that related to the physical, chemical, and biological integrity of the TNW. A variety of biological functions are being performed by the seasonal RPW, which include providing breeding grounds and shelter for aquatic wildlife and foraging areas for water dependent species and other wildlife. The chemical functions include waste filtration for the surrounding forested and residential areas. These tributaries provide diversity through vegetation changes, and where the aquatic system adjoins the adjacent uplands. The physical functions of the tributary include flow maintenance by retaining runoff and storm water during times of heavy rain and during the wetter months.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable water of the Broad River, it has been determined that there is a significant nexus between the relevant reach of the tributaries to the downstream TNW.

- D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):
 - 1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:

	TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Stream A and Stream H are unnamed tributaries to Peters Creek. They are located onsite and they have an OHWM and a distinct channel. These perennial streams have signs of relatively permanent flow, they are shown as blue lines on the topo map, and as perennial on the soils map. The tributaries were observed flowing during flagging and the Corps site visit. Stream characteristics observed and available data led this office to conclude the tributaries have a perennial flow regime.
	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: Stream B is located onsite and is labeled as a blue line on the topo map and as intermittent on the soil survey. The seasonal stream had signs of relatively permanent flow that includes a clear OHWM, a distinct channel, bed and bank. The tributary was observed flowing during flagging and during the Corps site visit; however, the flow was not continuous throughout the channel. Stream characteristics observed and available data led this office to conclude the tributary has a seasonal flow regime.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: Stream A = 587 linear feet, Stream B = 207 linear feet, Stream H = 641 linear feet. Other non-wetland waters: Identify type(s) of waters:
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland A is directly abutting Stream A and Stream H, both perennial RPWs. Wetland B is directly abutting Stream H, a perennial RPW.
	■ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: Wetland $A = 2.26$ acres, Wetland $B = 0.03$ acre.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or

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

	☐ Demonstrate that water is isolated with a nexus to commerce (see E below). Explain: Pond A (0.51 acres) was constructed on Stream B. Stream B is an onsite seasonal RPW and is labeled as a blue line on the topo map and as intermittent on the soil survey.
Е.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Identify water body and summarize rationale supporting determination:
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.
F.	NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
SEC	CTION IV: DATA SOURCES.
A. 1	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: Terracon Consultants. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: 1977 Navigability Study. U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990. USGS NHD data. USGS 8 and 12 digit HUC maps. HUC 03050105-15 Pacolet River, HUC 03050105-14 Lawsons Fork Creek. U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Spartanburg. USDA Natural Resources Conservation Service Soil Survey. Citation: SSURGO 2017, Appling, Cecil, Cecil-Bethlehem, Chewacla, Urban Land-Cecil, Hard Labor, Pacolet-Hard Labor, Toccoa. National wetlands inventory map(s). Cite name: PUBHh, R4SBC, PFO1B. State/Local wetland inventory map(s):

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

	FEMA/FIRM maps: .	
	100-year Floodplain Elevation is:	(National Geodectic Vertical Datum of 1929)
\boxtimes	Photographs: Aerial (Name & Date):	Google Earth Aerial October 30, 2017.
	or Other (Name & Date):	Photos 1-18 of 18 provided by the consultant dated September 20 and 21, 2016,
	photos 1-15 of 15 provided by	y the consultant dated May 3, May 12, and June 7, 2017, photos 1-73 of 73 provided
	by USACE dated March 29,	2017.
\boxtimes	Previous determination(s). File no. and of	date of response letter: Preliminary JD SAC-2017-00244 dated January 2, 2018.
	Applicable/supporting case law: .	
	Applicable/supporting scientific literatur	e: .
\boxtimes	Other information (please specify): Cor	ps Site Visit.

B. ADDITIONAL COMMENTS TO SUPPORT JD: This JD form documents the jurisdictional status of two perennial RPWs, one seasonal RPW, one impoundment, and two wetlands directly abutting RPWs that flow directly or indirectly into TNWs. Based on guidance provided, RPWs and abutting wetlands are jurisdictional; however, a Significant Nexus Evaluation was performed for the seasonal RPW for the record. The two perennial RPWs, one seasonal RPW, one impoundment, and two abutting wetlands documented on this form are waters of the U.S. and jurisdictional under the Clean Water Act.

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

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

SECTION I: BACKGROUND INFORMATION

A.	REPORT COMPLETION DATE FOR	APPROVED JURISDICTIONAL	DETERMINATION (JI	D): May 18,	2018
----	----------------------------	-------------------------	-------------------	-------------	------

В. І	DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 3 of 4; SAC-2017-00244 306-Acre US 221/Floyd Road Site
S C N	ROJECT LOCATION AND BACKGROUND INFORMATION: tate: South Carolina County/parish/borough: Spartanburg City: Spartanburg center coordinates of site (lat/long in degree decimal format): Lat. 34.99709°N, Long. 81.90044°W. Universal Transverse Mercator: NAD 83 Jame of nearest waterbody: Peters Creek Jame of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Broad River
	Tame of watershed or Hydrologic Unit Code (HUC): 03050105-15 Pacolet River, 03050105-14 Lawsons Fork Creek. 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 ifferent JD form.
	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: May 17, 2018 Field Determination. Date(s): March 29, 2017
SECT A. R	TION II: SUMMARY OF FINDINGS HA SECTION 10 DETERMINATION OF JURISDICTION.
reviev	Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the variance. [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: Explain:
B. C	VA 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	a. Indicate presence of waters of U.S. in review area (check all that apply): ¹ □ TNWs, including territorial seas □ Wetlands adjacent to TNWs □ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs □ Non-RPWs that flow directly or indirectly into TNWs □ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs □ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs □ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs □ Impoundments of jurisdictional waters □ Isolated (interstate or intrastate) waters, including isolated wetlands
	 b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: Pond Outfall A = 111 linear feet, Pond Outfall B = 146 linear feet, Stream C = 3,125 linear feet, Stream D = 330 linear feet, Stream E = 93 linear feet, Pond B = 0.26 acre. Wetlands: Wetland D = 0.36 acre, Wetland E = 0.01 acre. c. Limits (boundaries) of jurisdiction based on: Established by OHWM., 1987 Delineation Manual, Pick List
	Elevation of established OHWM (if known):

2. Non-regulated waters/wetlands (check if applicable): ³ [Including potentially jurisdictional features that upon

assessment are NOT waters or wetlands]

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.
² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

		Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:
SEC	CTIO	N III: CWA ANALYSIS
A.	TN	Ws AND WETLANDS ADJACENT TO TNWs
	Sec	e agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete tion 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 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.	СН	ARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
		s section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps ermine whether or not the standards for jurisdiction established under <i>Rapanos</i> have been met.
	wat moi (per	e agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent ters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 nths). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round rennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, p to Section III.D.4.
	EP/ rela	vetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and A regions will include in the record any available information that documents the existence of a significant nexus between a atively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even ugh a significant nexus finding is not required as a matter of law.
	wat con ana the the	the waterbody ⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the terbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must sider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for allytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite 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: 141,876 acres; HUC 03050105-15 Pacolet River Drainage area: Pond Outfall A = 12.17 acres, Pond Outfall B = 12.17 acres, Stream C = 96.02 acres, Stream D = 33.26 acres, Stream E = 12.01 acres, Average annual rainfall: 49 inches Average annual snowfall: 2 inches
		 (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. ✓ Tributary flows through 3 tributaries before entering TNW.

Project waters are 30 (or more) river miles from TNW.

Project waters are 25-30 aerial (straight) miles from TNW. Project waters are 1-2 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Project waters are 1-2 river miles from RPW.

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

	River, which flows to the Broad River (Traditional Navigable Water). Tributary stream order, if known:
(b)	General Tributary Characteristics (check all that apply): Tributary is:
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: According to the Soil Survey of Spartanburg County, the predominant soils in Pond Outfall A, Pond Outfall B, and Stream E consisted of Cecil series. According to the Soil Survey of Spartanburg County, the predominant soils in Stream C, and Stream D consisted of Cecil and Cecil-Bethlehem complex series. Cecil, and Cecil-Bethlehem complex soils are well drained.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: None observed. Tributary geometry: Relatively straight. Tributary gradient (approximate average slope):
(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: Pick List Describe flow regime: Pond Outfall A, Pond Outfall B, Stream C, Stream D, and Stream E flow seasonally during normal conditions. Other information on duration and volume: Stream D are located onsite and are labeled as a blue line on the topo map and as intermittent on the soil survey. Pond Outfall A, Pond Outfall B, Stream C, and Stream E are located onsite and are labeled as drainage features on the topo map and as intermittent on the soil survey. These tributaries have a clear OHWM and a distinct channel.
	Surface flow is: Discrete and confined. Characteristics: Pond Outfall A, Pond Outfall B, Stream C, Stream D, and Stream E flow in a channel during normal conditions.
	Subsurface flow: Unknown . Explain findings:
	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): High Tide Line indicated by: Oil or scum line along shore objects In fine shell or debris deposits (foreshore) Mean High Water Mark indicated by: Survey to available datum; In physical markings;

Identify flow route to TNW⁵: Unnamed tributary to Peters Creek flows to Peters Creek, which flows to Pacolet

⁷Ibid.

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

				physical markings/characte tidal gauges other (list):	ristics	vegetation lines/changes in vegetation types.
	(iii)	Char	Explain: Por residential land, 11.0% tify specific	utary (e.g., water color is cle and Outfall A, Pond Outfall development. Land use/lan urban land, 1.9% foreste	l B, Stream C nd cover in th d wetland, 1. ibutaries are	, oily film; water quality; general watershed characteristics, etc.). 7, Stream D, and Stream E are located near forested land and e watershed includes: 51.6% forested land, 32.6% agricultural 1% water, 1.0% scrub/shrub land, 0.8% barren land. located near forested land and residential development. There
	(iv)		Riparian co Wetland fri Habitat for: Federall Fish/spa Other er	y Listed species. Explain fir twn areas. Explain findings: 'nvironmentally-sensitive spec	, average widt ndings: Tributaries p cies. Explain	h): . rovide spawning areas for aquatic wildlife.
2.	Cha	aracte	ristics of w	etlands adjacent to non-TN	W that flow	directly or indirectly into TNW
	(i)	(a)	Properties: Wetland Wetland Wetland	eteristics: etland Characteristics: d size: Wetland D = 0.36 acr d type. Explain: Forested. d quality. Explain: lands cross or serve as state b		
			Flow is: E ₁	ow Relationship with Non-The phemeral flow. Explain: We the seasonal RPW, Stream	tland D is di	rectly abutting to the seasonal RPW, Stream C. Wetland E is
			Charact	w is: Discrete and confined eristics: Wetland D is directed RPW, Stream C.	tly abutting t	o the seasonal RPW, Stream C. Wetland E is adjacent to the
				flow: Unknown . Explain fit (or other) test performed:	ndings:	
			☑ Directly☑ Not dire☑ Dise☑ Eco	ctly abutting crete wetland hydrologic con	ctly abutting nnection. Exp : Wetland E i	to the seasonal RPW, Stream C. lain: s adjacent to the seasonal RPW, Stream C.
			Project wet Project water Flow is from	Relationship) to TNW lands are 30 (or more) river ers are 25-30 aerial (straight m: Wetland to navigable wa proximate location of wetland) miles from Taters.	TNW.
	(ii)	Char	characterist developme 11.0% urb tify specific	cland system (e.g., water coldics; etc.). Explain: Wetland nt. Land use/land cover in tan land, 1.9% forested wetland.	D and Wetla the watershed land, 1.1% w etlands are lo	wn, oil film on surface; water quality; general watershed and E are located near forested land and residential dincludes: 51.6% forested land, 32.6% agricultural land, ater, 1.0% scrub/shrub land, 0.8% barren land. ocated near forested land and residential development. There
	(iii)		Riparian bu	acteristics. Wetland suppo ffer. Characteristics (type, a type/percent cover. Explain:	verage width)	

Federally Listed species. Explain findings:	
Fish/spawn areas. Explain findings: Wetlands provide possible breeding grounds for aquatic speci	es.
Other environmentally-sensitive species. Explain findings:	
Aquatic/wildlife diversity. Explain findings: Wetlands provide habitat for wildlife in the area.	

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

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

Approximately (0.37) 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 wetlands evaluated in this SND are performing biological, chemical, and physical functions that relate to the downstream TNW. Wetland D is directly abutting to the seasonal RPW, Stream C. Wetland E is adjacent to the seasonal RPW, Stream C. A variety of biological functions are being performed by the wetland and nearby RPW. The wetlands provide possible breeding grounds for aquatic species as well as habitat for wildlife in the area. The chemical functions include waste filtration for the surrounding forested and residential areas. The physical functions of the wetland include flow maintenance by retaining runoff and storm water during times of heavy rain and during the wetter months.

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: Pond Outfall A, Pond Outfall B, Stream C, Stream D, Stream E, and their adjacent wetlands are located onsite and are performing a variety of functions that related to the physical, chemical, and biological integrity of the TNW. Wetland D is directly abutting to the seasonal RPW, Stream C and Wetland E is adjacent to the seasonal RPW, Stream C. A variety of biological functions are being performed by the seasonal RPWs and the wetlands, which include providing breeding grounds and shelter for aquatic wildlife and foraging areas for water dependent species and other wildlife. The chemical functions include waste filtration for the surrounding forested and residential areas. These tributaries and wetlands provide diversity through vegetation changes, and where the aquatic system adjoins the adjacent uplands. The physical functions of the tributaries and wetlands include flow maintenance by retaining runoff and storm water during times of heavy rain and during the wetter months.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable water of the Broad River, it has been determined that there is a significant nexus between the relevant reach of the tributaries and adjacent wetlands to the downstream TNW.

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

ΙH	AT APPLY):
1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: ☐ TNWs: linear feet width (ft), Or, acres. ☐ Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Stream D is located onsite and is labeled as a blue line on the topo map and as intermittent on the soil survey. Pond Outfall A, Pond Outfall B, Stream C, and Stream E are located onsite and are labeled as drainage features on the topo map and as intermittent on the soil survey. The seasonal streams had signs of relatively permanent flow that includes a clear OHWM, a distinct channel, bed and bank. The tributaries were observed flowing during flagging and during the Corps site visit; however, the flow was not continuous throughout the channel. Stream characteristics observed and available data led this office to conclude the tributaries have a seasonal flow regime.
	Provide estimates for jurisdictional waters in the review area (check all that apply): ☑ Tributary waters: Pond Outfall A = 111 linear feet, Pond Outfall B = 146 linear feet, Stream C = 3,125 linear feet, Stream D = 330 linear feet, Stream E = 93 linear feet. ☐ Other non-wetland waters: ☐ Identify type(s) of waters: ☐ .
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland D is directly abutting to the seasonal RPW, Stream C.
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.36 acre.

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

⁸See Footnote # 3.

			and with similarly	situated adjacent wetla	ands, have a signific	dered in combination with the tributary to which they are adjacent icant nexus with a TNW are jurisidictional. Data supporting this cent to the seasonal RPW, Stream C.
		Prov	vide acreage estimate	es for jurisdictional we	etlands in the review	w area: 0.01 acre.
	6.	Wet	Wetlands adjacent with similarly situa		ve when considered	etly into TNWs. ed in combination with the tributary to which they are adjacent and t nexus with a TNW are jurisdictional. Data supporting this
		Prov	vide estimates for ju	risdictional wetlands i	n the review area:	acres.
	7.	As a	Demonstrate that in Demonstrate that we Demonstrate that we lain: Pond B (0.26)	poundment of a jurisc inpoundment was creat rater meets the criteriat rater is isolated with a	ted from "waters of for one of the categories nexus to commerce on Stream C. Stre	egories presented above (1-6), or the (see E below). Tream C is an onsite seasonal RPW and is labeled as a drainage
E.	SUC SUC SUC	GRAI CH W which from which Inters	DATION OR DES VATERS (CHECK h are or could be use which fish or shellf	TRUCTION OF WH ALL THAT APPLY ed by interstate or fore ish are or could be taked for industrial purpo	IICH COULD AFF (): 10 ign travelers for rece en and sold in inters	CLUDING ISOLATED WETLANDS, THE USE, FFECT INTERSTATE COMMERCE, INCLUDING ANY ecreational or other purposes. restate or foreign commerce. in interstate commerce.
	Ide	ntify	water body and sur	mmarize rationale su	pporting determin	ination:
		Tribu Other Id	-	s: acres.	view area (check all h (ft).	ıll that apply):
F.		If po Wet Revi □ Wat	otential wetlands we land Delineation Ma iew area included iso Prior to the Jan 200 "Migratory Bird Ru	re assessed within the anual and/or appropria plated waters with no all Supreme Court decide" (MBR). 'Significant Nexus' st	review area, these a te Regional Suppler substantial nexus to ision in "SWANCC,"	S (CHECK ALL THAT APPLY): areas did not meet the criteria in the 1987 Corps of Engineers ements. o interstate (or foreign) commerce. C," the review area would have been regulated based solely on the h a finding is required for jurisdiction. Explain:
	fact	ors (i.gment Non Lake Othe		atory birds, presence (y): ., rivers, streams): es.		area, where the <u>sole</u> potential basis of jurisdiction is the MBR cies, use of water for irrigated agriculture), using best professional width (ft). purce:
		nding Non Lake Othe		diction (check all that ., rivers, streams): es.		area that do not meet the "Significant Nexus" standard, where such width (ft). ource:

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

SECTION IV: DATA SOURCES.

A.		PORTING 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):
	\boxtimes	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Terracon Consultants.
	\boxtimes	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
		Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets.
		Office does not concur with data sheets/delineation report.
		Data sheets prepared by the Corps: .
	\boxtimes	Corps navigable waters' study: 1977 Navigability Study.
	\boxtimes	U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.
		USGS NHD data.
		USGS 8 and 12 digit HUC maps. HUC 03050105-15 Pacolet River, HUC 03050105-14 Lawsons Fork Creek.
	\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Spartanburg.
	\boxtimes	USDA Natural Resources Conservation Service Soil Survey. Citation: SSURGO 2017, Appling, Cecil, Cecil-Bethlehem,
		wacla, Urban Land-Cecil, Hard Labor, Pacolet-Hard Labor, Toccoa.
	\boxtimes	National wetlands inventory map(s). Cite name: PUBHh, R4SBC, PFO1B.
		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): Google Earth Aerial October 30, 2017.
		or 🔀 Other (Name & Date): Photos 1-18 of 18 provided by the consultant dated September 20 and 21, 2016,
		photos 1-15 of 15 provided by the consultant dated May 3, May 12, and June 7, 2017, photos 1-73 of 73 provided
		by USACE dated March 29, 2017.
	\boxtimes	Previous determination(s). File no. and date of response letter: Preliminary JD SAC-2017-00244 dated January 2, 2018.
		Applicable/supporting case law: .
		Applicable/supporting scientific literature: .
	\boxtimes	Other information (please specify): Corps Site Visit.

B. ADDITIONAL COMMENTS TO SUPPORT JD: This JD form documents the jurisdictional status of five seasonal RPWs, one impoundment, one wetland directly abutting and one wetland adjacent to seasonal RPWs. Based on the guidance provided, RPWs and their abutting wetlands are jurisdictional; however, a Significant Nexus Evaluation was performed for the five seasonal RPWs and the abutting wetland for the record. A Significant Nexus Evaluation was also performed on the adjacent wetland. Based on documentation provided in Section III.C. of this form, the nexus is significant. The five seasonal RPWs, one impoundment, and two wetlands documented on this form are waters of the U.S. and jurisdictional under the Clean Water Act.

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

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

SECTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): May 18, 2018 B. DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 4 of 4; SAC-2017-00244 306-Acre US 221/Floyd Road Site C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: **Spartanburg** City: Spartanburg Center coordinates of site (lat/long in degree decimal format): Lat. 34.99709°N, Long. 81.90044°W. Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Peters Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Broad River Name of watershed or Hydrologic Unit Code (HUC): 03050105-15 Pacolet River, 03050105-14 Lawsons Fork Creek. Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: May 17, 2018 Field Determination. Date(s): March 29, 2017 **SECTION II: SUMMARY OF FINDINGS** A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: Stream F = 1,278 linear feet, Stream G = 565 linear feet. Wetlands: Wetland C = 0.02 acre. c. Limits (boundaries) of jurisdiction based on: Established by OHWM., 1987 Delineation Manual, Pick List Elevation of established OHWM (if known): Non-regulated waters/wetlands (check if applicable): [Including potentially jurisdictional features that upon assessment are NOT waters or wetlands]

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

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

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

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

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

1.	TNW Identify TNW:	
	Summarize rationale supporting determination: .	
2.	Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent":	

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

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

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

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

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

(i) General Area Conditions:

	Watershed size: acres;
	Drainage area: acres.
	Average annual rainfall: inches.
	Average annual snowfall: inches.
(ii)	Physical Characteristics:
	(a) Relationship with TNW:
	☐ Tributary flows directly into TNW.
	Tributary flows through Pick List tributaries before entering TNW.
	Project waters are Pick List river miles from TNW.
	Project waters are Pick List river miles from RPW.
	Project waters are Pick List aerial (straight) miles from TNW.
	Project waters are Pick List aerial (straight) miles from RPW.
	Project waters cross or serve as state boundaries. Explain:
	Identify flow route to TNW ⁵ :
	Tributary stream order, if known:

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

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

	(b)	General Tributary Ch Tributary is: [naracteristics (check all that apply Natural Artificial (man-made). Explain Manipulated (man-altered). E	n:	n: .		
		Tributary properties Average width: Average depth: Average side slo	s with respect to top of bank (esting feet feet ppes: Pick List.	mate):			
		Primary tributary sub Silts Cobbles Bedrock Other. Expla	ostrate composition (check all that Sands Gravel Vegetation. Type/% in:			☐ Concrete ☐ Muck	
		Presence of run/riffle Tributary geometry:	tability [e.g., highly eroding, slow /pool complexes. Explain: Pick List. pproximate average slope):	ughing %	g banks].	Explain: .	
	(c)	Describe flow re	nber of flow events in review area	a/year	r: Pick Li	st	
		Surface flow is: Pick	List. Characteristics:				
			k List . Explain findings:				
		clear, na changes shelving vegetati leaf litte sedimen water st	ks neck all indicators that apply): tural line impressed on the bank in the character of soil g on matted down, bent, or absent or disturbed or washed away tt deposition aining		destruction the present sediment scour multiple	nce of litter and debris on of terrestrial vegetation nce of wrack line sorting observed or predicted flow events nange in plant community	
		High Tide I oil or so fine she	Line indicated by: um line along shore objects Il or debris deposits (foreshore) markings/characteristics ages	Mear	n High Wa urvey to a hysical m	t of CWA jurisdiction (check all that ap ater Mark indicated by: available datum; harkings; lines/changes in vegetation types.	ply):
(iii)	Cha	emical Characteristic aracterize tributary (e.g Explain: ntify specific pollutant	g., water color is clear, discolored,	, oily	film; wate	er quality; general watershed characteri	stics, etc.)
(iv)	Biol		es. Channel supports (check all haracteristics (type, average width racteristics:		apply):		

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

⁷Ibid.

			☐ Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: ☐ Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings:
2.	Cha	racte	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		sical Characteristics: General Wetland Characteristics: Properties: Wetland size: Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:
			Surface flow is: Pick List Characteristics:
			Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW: □ Directly abutting □ Not directly abutting □ Discrete wetland hydrologic connection. Explain: □ Ecological connection. Explain: □ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW Project wetlands are Pick List river miles from TNW. Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain.
	(ii)	Cha	mical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: tify specific pollutants, if known:
	(iii)	Biol	ogical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
3.	Cha	All	eristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis: Pick List roximately () acres in total are being considered in the cumulative analysis.
	For	each	wetland, specify the following:
			Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

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: Stream F and Stream G are unnamed tributaries to Peters Creek. They are located onsite and they have an OHWM and a distinct channel. These perennial streams have signs of relatively permanent flow, they are shown as blue lines on the topo map, and as perennial on the soils map. The tributaries were observed flowing during flagging and the Corps site visit. Stream characteristics observed and available data led this office to conclude the tributaries have a perennial flow regime.
	☐ 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: Stream F = 1,278 linear feet, Stream G = 565 linear feet. ☐ Other non-wetland waters: acres. Identify type(s) of waters: .

	3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
	4.	 Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland C is directly abutting Stream G, a perennial RPW. ■ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Provide acreage estimates for jurisdictional wetlands in the review area: 0.02 acre.
	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:
	6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional wetlands in the review area: acres.
	7.	Impoundments of jurisdictional waters. ⁹ As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below). Explain:
E.	SUC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
	Ide	ntify water body and summarize rationale supporting determination:
		vide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters:
		Wetlands: acres.
F.	NO	N-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

 ⁸See Footnote # 3.
 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for the complete of the com review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

	If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
facto	ride acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional ment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
a fin	ride 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.
SUPF and :	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Terracon Consultants. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: 1977 Navigability Study. U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990. USGS NHD data. USGS 8 and 12 digit HUC maps. HUC 03050105-15 Pacolet River, HUC 03050105-14 Lawsons Fork Creek. U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Spartanburg. USDA Natural Resources Conservation Service Soil Survey. Citation: SSURGO 2017, Appling, Cecil, Cecil-Bethlehem, wacla, Urban Land-Cecil, Hard Labor, Pacolet-Hard Labor, Toccoa. National wetlands inventory map(s). Cite name: PUBHh, R4SBC, PFO1B. State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Google Earth Aerial October 30, 2017.
\boxtimes	or ☑ Other (Name & Date): Photos 1-18 of 18 provided by the consultant dated September 20 and 21, 2016, photos 1-15 of 15 provided by the consultant dated May 3, May 12, and June 7, 2017, photos 1-73 of 73 provided by USACE dated March 29, 2017. Previous determination(s). File no. and date of response letter: Preliminary JD SAC-2017-00244 dated January 2, 2018. Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): Corps Site Visit.

B. ADDITIONAL COMMENTS TO SUPPORT JD: This JD form documents the jurisdictional status of two perennial RPWs and one wetland directly abutting. Based on the guidance provided, perennial RPWs and their directly abutting wetlands are jurisdictional. The two perennial RPWs and one wetland documented on this form are waters of the U.S. and jurisdictional under the Clean Water Act.