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

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

SECTION I: BACKGROUND INFORMATION A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): March 21, 2012 B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 1; SAC 2010-00917-4E C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: **Dillon** City: Center coordinates of site (lat/long in degree decimal format): Lat. 34.335603° N, Long. -79.511884° W. Universal Transverse Mercator: Name of nearest waterbody: Catfish Canal Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Great Pee Dee River Name of watershed or Hydrologic Unit Code (HUC): 03040201-11 (Catfish Creek Watershed) 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: Field Determination. Date(s): February 23, 2011; March 7, 2011; January 11, 2012 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: linear feet: width (ft) and/or acres. Wetlands: 0.16 acres. c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Pick List, Pick List Elevation of established OHWM (if known):

Non-regulated waters/wetlands (check if applicable):³

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

Explain:

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.

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: 111,369 acres; HUC 03040201-11

Drainage area: 1,144 acres
Average annual rainfall: 50 inches
Average annual snowfall: 0 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through 1 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 5-10 aerial (straight) miles from TNW.

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

Project waters cross or serve as state boundaries. Explain: The project waters originate within the southwestern portion of Dillon County and do not cross or serve as state boundaries..

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

Great Pee Dee River. Tributary stream order, if known: The unnamed tributary is a 1st order stream. (b) General Tributary Characteristics (check all that apply): Natural Artificial (man-made). Explain: Tributary is: Manipulated (man-altered). Explain: The tributary originates from a pond located north of Interstate 95. The downstream portion of this tributary has been straightened to flow through agricultural fields and parallel to two roads. **Tributary** properties with respect to top of bank (estimate): Average width: 5 feet Average depth: 3 feet Average side slopes: Vertical (1:1 or less). Primary tributary substrate composition (check all that apply): Sands Silts Concrete Cobbles ☐ Gravel Muck Bedrock ☐ Vegetation. Type/% cover: Other, Explain: Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: The tributary is relatively stable with no erosion or sloughing banks observed. Presence of run/riffle/pool complexes. Explain: No run/riffle/pool complexes were observed. Tributary geometry: Meandering. Tributary gradient (approximate average slope): 0-1 % Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: According to the SC State Climatology Office, the drought status for Dillon County has been listed as moderate since June 17, 2011. The off-site tributary receives flow from the upstream pond and from abutting wetlands. This tributary also receives overland sheetflow from the adjacent agricultural fields and confined flow from a noniurisdictional ditch. Other information on duration and volume: The topographic map depicts this tributary as a solid blue line and depicts the upstream (natural) portion of this tributary as a natural drainageway. Surface flow is: **Discrete and confined.** Characteristics: Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply): Bed and banks OHWM⁶ (check all indicators that apply): \boxtimes clear, natural line impressed on the bank \square the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): Discontinuous OHWM. Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; fine shell or debris deposits (foreshore) physical markings;

Identify flow route to TNW⁵: The unnamed tributary flows into Catfish Canal, a perennial RPW. Catfish Canal turns into Catfish Creek after joining with Smith Swamp, a perennial RPW. Catfish Creek flows directly into the

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/characteristics tidal gauges other (list):	vegetation lines/changes in vegetation types.
farmland uses are	Iden I. Ac	Explain: The SCDHEC agricultural consisting of tify specific coording to supported disported dis	outary (e.g., water color is clear, discolone water in the tributary was cloudy as having a low to moderate potential land, 35% forested wetlands, 18% of scrub/shrub land, non-forested work pollutants, if known: The unnamed to SCDHEC, the downstream monitor ue to dissolved oxygen excursions and	ored, oily film; water quality; general watershed characteristics, etc.). and no oily film was observed. This watershed is characterized by al for growth. Land use in the watershed is comprised of over 36% of forested uplands, and 6.5% urban land with other land uses etlands and water. ributary receives pesticides and other pollutants from the adjacent ring station for Catfish Creek (PD-097) indicates that aquatic life and a significant decreasing trend in dissolved oxygen concentration. It of DDT, as present in a sample taken at the monitoring station in
				Decreasing trends in turbidity and total nitrogen concentration and recreational uses are supported.
		Riparian co Wetland fri Habitat for: Federall Fish/spa Other et Aquatic	: ly Listed species. Explain findings: awn areas. Explain findings: . nvironmentally-sensitive species. Exp /wildlife diversity. Explain findings:	width): Intersects approximately 190 acres of wetlands. Is a lain findings: This tributary provides an important aquatic corridor and wildlife
ŕ	-		life diversity in a watershed comprisetlands adjacent to non-TNW that f	<u> </u>
Vegetatio	(a) on an	Properties: Wetland Wetland Wetland d soils have a drought	etland Characteristics: d size: 0.16 acres d type. Explain: Palustrine emergent d quality. Explain: The wetland on si e been manipulated by agricultural a in this watershed.	t/scrub-shrub. It is considered impaired due to its presence in an agricultural field. activities and the hydrology on site has been impacted by the s. Explain: The project wetlands do not cross or serve as state
			ow Relationship with Non-TNW: phemeral flow. Explain: The flow occ	curs after storm events.
		Charact Subsurface	w is: Overland sheetflow teristics: flow: Unknown. Explain findings: (or other) test performed:	
	(c)	☐ Directly	djacency Determination with Non-TN abutting ectly abutting	<u>W:</u>
non-iuris	sdicti		crete wetland hydrologic connection.	Explain: The onsite wetland has a direct hydrologic connection via a
-10-11 J W1 18	, 	☐ Ecc	oblogical connection. Explain: oarated by berm/barrier. Explain:	
		Project wet Project wat Flow is from Estimate ap	Relationship) to TNW lands are 30 (or more) river miles from the street	m TNW.
(;;)	Cha	mical Char	actoristics.	

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: No water was observed on the surface of the wetland. This wetland is located adjacent to two highways in Dillon County and receives runoff and trash and debris from these roads. This

watershed is characterized by SCDHEC as having a low to moderate potential for growth. Land use in the watershed is comprised of over 36% agricultural land, 35% forested wetlands, 18% forested uplands, and 6.5% urban land with other land uses consisting of scrub/shrub land, non-forested wetlands and water .

Identify specific pollutants, if known: The wetland receives pesticides and other pollutants from the adjacent farmland. According to SCDHEC, the downstream monitoring station for Catfish Creek (PD-097) indicates that aquatic life uses are not supported due to dissolved oxygen excursions and a significant decreasing trend in dissolved oxygen concentration. The SCDHEC watersheds website also lists DDE, a metabolite of DDT, as present in a sample taken at the monitoring station in 2001 and describes it as being persitent in the environment. Decreasing trends in turbidity and total nitrogen concentration indicate that the condition of the water quality is improving and recreational uses are supported.

	Fish/spawn areas. Exp Other environmentall	cover. Explain: ies. Explain findings:	xplain findings:	
3.	Characteristics of all wetlands ad All wetland(s) being considered	•	• . • .	
	Approximately (260) acres in		•	ysis.
	For each wetland, specify the	following:		
	Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
	Y N Y	177 0.16 50	Y N	15 15

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

Summarize overall biological, chemical and physical functions being performed: The wetlands and perennial RPW in the review area are contributing vital biological, chemical, and physical functions to the downstream TNW. They make up an important ecological system with vital aquatic habitat in a predominately agricultural area. These waters of the US are acting as a catch basin for the adjacent uplands and impervious surfaces by filtering sediments, herbicides, and other pollutants and by reducing the volume and velocity of floodwaters reaching the downstream TNW.

C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The unnamed tributary and its adjacent wetlands are providing vital biological, chemical, and physical functions to the downstream TNW. These wetlands and the perennial RPW are an important link in the aquatic wildlife corridor and promote wildlife diversity in a watershed comprised of over 36% agricultural land. Due to their location adjacent to several major roadways, including an interstate, and surrounded by agricultural fields, these waters of the US are acting as a catch basin to reduce the amount of flood waters and pollutants reaching the downstream TNW.

		adjacent to several major roadways, including an interstate, and surrounded by agricultural fields, these waters of the US are acting as a catch basin to reduce the amount of flood waters and pollutants reaching the downstream TNW .				
	Doo	cumentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs:				
		ERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL T APPLY):				
	1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.				
	2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Based on a review of the topographic map and aerials, the off-site tributary has perennial flow. The aerials depict this tributary as a shaded linear feature, and the topographic map depicts this tributary as a solid blue line that originates north of I-95 and flows southeast out of a pond. This unnamed tributary flows into Catfish Canal, which is a perennial RPW that flows into the Great Pee Dee River.				
		☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:				
		Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .				
	3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.				
		Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .				
	4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:				
		Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:				
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.				

⁸See Footnote # 3.

	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: 0.16 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:
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): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
		vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such adding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres.

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.

CECTION W. DATA COUNCES	
SECTION IV: DATA SOURCES.	
A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file ar	nd, where checked
and requested, appropriately reference sources below):	
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report by S&ME, plat by Nesl	bitt Surveying.
Data sheets prepared/submitted by or on behalf of the applicant/consultant.	• 0
Office concurs with data sheets/delineation report.	
Office does not concur with data sheets/delineation report.	
Data sheets prepared by the Corps:	
Corps navigable waters' study:	
U.S. Geological Survey Hydrologic Atlas:	
USGS NHD data.	
USGS 8 and 12 digit HUC maps.	
 U.S. Geological Survey map(s). Cite scale & quad name: Oak Grove. USDA Natural Resources Conservation Service Soil Survey. Citation: pg. 21. National wetlands inventory map(s). Cite name: U21. State/Local wetland inventory map(s): 	
National wetlands inventory map(s). Cite name: U21.	
State/Local wetland inventory map(s):	
FEMA/FIRM maps: .	
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)	
Photographs: Aerial (Name & Date): 99:11223:88.	
or Other (Name & Date):	
Previous determination(s). File no. and date of response letter:	
Applicable/supporting case law:	
Applicable/supporting scientific literature:	

acres. List type of aquatic resource:

Other non-wetland waters:

acres.

Other information (please specify):

Wetlands:

B. ADDITIONAL COMMENTS TO SUPPORT JD: The jurisdictional wetland on site was determined to be jurisdictional based on a direct hydrological connection to the downstream perennial RPW via a man-made non-jurisdictional ditch. This jurisdictional wetland, as well as the similarly situated off-site wetlands in the 1144 acre drainage area of the perennial RPW, were determined to have a significant nexus to the downstream TNW in Section III B & C above. Based on a review of the topographic map and aerials, the off-site tributary has perennial flow. The aerials depict this tributary as a shaded linear feature, and the topographic map depicts this tributary as a solid blue line that originates north of I-95 and flows southeast out of a pond. This unnamed tributary flows into Catfish Canal, which is a perennial RPW that flows into the Great Pee Dee River.