### 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): January 16, 2013** Α.

#### DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 1; SAC#2012-00182-2JR; Ancrum Road Site - Lot 2B B.

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Charleston City: Ladson

Center coordinates of site (lat/long in degree decimal format): Lat. 32.987792° N, Long. -80.095635° W.

Universal Transverse Mercator:

Name of nearest waterbody: Bluehouse Swamp

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Goose Creek to Cooper River Name of watershed or Hydrologic Unit Code (HUC): 3050201

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

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): June 19, 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. Explain:

# **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
  - a. Indicate presence of waters of U.S. in review area (check all that apply): <sup>1</sup>
    - TNWs, including territorial seas
    - Wetlands adjacent to TNWs
    - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
    - Non-RPWs that flow directly or indirectly into TNWs
      - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      - Impoundments of jurisdictional waters
      - Isolated (interstate or intrastate) waters, including isolated wetlands
  - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 0.504 acres.
  - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Pick List, Pick List Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup> [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:

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

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

<sup>&</sup>lt;sup>3</sup> Supporting documentation is presented in Section III.F.

# SECTION III: CWA ANALYSIS

### A. TNWs AND WETLANDS ADJACENT TO TNWs

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

#### 1. TNW

Identify TNW:

Summarize rationale supporting determination:

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

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

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

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

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

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

- 1. Characteristics of non-TNWs that flow directly or indirectly into TNW
  - (i) General Area Conditions: Watershed size: 38,766 acres ; Drainage area: 720 acres Average annual rainfall: 48 inches Average annual snowfall: 0 inches

# (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ⊠ Tributary flows through 2 tributaries before entering TNW.

Project waters are 15-20 river miles from TNW.
Project waters are 1 (or less) river miles from RPW.
Project waters are 5-10 aerial (straight) miles from TNW.
Project waters are 1 (or less) aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: runoff from freshwater wetland flows through pipe under Hwy 78, through underground storm drain that runs parallel with Hwy 78 and drains into Bluehouse Swamp. Bluehouse Swamp is

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

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

a major swamp system that extends north across I-26 and flows into the Goose Creek swamp system which flows into Goose Creek Reservoir, downstream into Goose Creek and into the Cooper River (TNW). Tributary stream order, if known:

NOTE: Bluehouse Swamp is a large, forested freshwater swamp system that extends ~4.5 miles across Charleston County before joining with the Goose Creek swamp system. Information below is based on the visual area where Hwy 78 crosses Bluehouse Swamp, aerial photos, quad sheets, and general knowledge of the surrounding area.

(b)	<ul> <li><u>General Tributary Characteristics (check all that apply):</u></li> <li><b>Tributary</b> is: Xatural</li> <li>Artificial (man-made). Explain: .</li> <li>Manipulated (man-altered). Explain: .</li> </ul>					
	Tributary properties with respect to top of bank (estimate):Average width:feetBluehouse Swamp ranges from ~600 feet wide to ~2000 feet wide.Average depth:feetDepth varies according to rainfall events.Average side slopes:Pick List.					
	Primary tributary substrate composition (check all that apply):         Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: 95         Other. Explain:       .					
Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Meandering. Tributary gradient (approximate average slope): 1 %						
(c)	<ul> <li><u>Flow:</u> Tributary provides for: <b>Perennial flow</b></li> <li>Estimate average number of flow events in review area/year: <b>Pick List</b></li> <li>Describe flow regime:</li> <li>Other information on duration and volume:</li> </ul>					
Surface flow is: <b>Confined.</b> Characteristics: Flow is confined to the swamp system which probably includes a braided system and sheet flow.						
	Subsurface flow: Unknown. Explain findings: .					
	Tributary has (check all that apply): Bed and banks OHWM <sup>6</sup> (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. <sup>7</sup> Explain:					
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):          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/characteristics         tidal gauges       other (list):					

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water within the swamp in stained by tanins, so the water tends to be dark brown, but clear. There was

no oily film or indication of the presence of pollutants.

Identify specific pollutants, if known: In general, it would be expected that oil and grease from Hwy 78 would discharge into Bluehouse Swamp during storm events.

#### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:

Federally Listed species. Explain findings:

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

Aquatic/wildlife diversity. Explain findings: This swamp system would provide habitat for large and small mammal, in additions to a wide diversity of fish, insects, reptiles, and amphibians. The system would also provide the corridor through which wildlife would travel to and from the various wetlands and systems in the surrounding counties.

- 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
  - (i) Physical Characteristics:
    - (a) General Wetland Characteristics:
      - Properties:

Wetland size: 0.504 acres Wetland type. Explain: Palustrine forested.

Wetland quality. Explain: The wetland quality is fairly good, but has been impacted to some degree by

#### development to the north, east, and south.

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: Intermittent flow. Explain: Flow is intermittent and may occur seasonally and /or after rain events when surface water in the wetland may be present.

> Surface flow is: Discrete and confined Characteristics:

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

- (c) Wetland Adjacency Determination with Non-TNW:
  - Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain: The wetland is connected to downstream waters via a pipe that crosses under Hwy 78 to an underground stormwater system that flows parallel with Highway 78 to Bluehouse Swamp.

- Ecological connection. Explain:
- Separated by berm/barrier. Explain:

#### (d) Proximity (Relationship) to TNW

Project wetlands are 15-20 river miles from TNW. Project waters are **5-10** aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 20 - 50-year floodplain.

#### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: The water was clear, and did not exhibit any oil or film on the surface.

Identify specific pollutants, if known: Unknown.

# (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: The forested wetland is associated with a non-jurisdictional linear drainage feature that extends off-site and discharges through a pipe to an underground storm drain system. The vegetation present within this wetland is forested predominantly of red maple (<u>Acer rubrum</u>), and sweet gum (<u>Liquidambar styraciflua</u>), with an understory of <u>Ligustrum sinense</u>. The subject site is surrounded on the north by residential development, on the east and northwest by commercial development, and on the south by Hwy 78. This wetland would provide habitat for small mammals, resident and migratory bird species, and a variety of herptile fauna and insects. The wetland provide a "safe haven" for organisms moving between wetlands and tributaries in the vicinity, in addition to providing habitat for all or part of the lives of wildlife using the wetland.

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

#### All wetland(s) being considered in the cumulative analysis: 4

Approximately (58.294) 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: This review area includes one on-site and three off-site freshwater wetlands totaling 58.3 acres. Headwater systems provide a variety of functions that are important for the downstream waters and the watershed as a whole. The wetlands and tributaries not only provide habitat for various aquatic and terrestrial organisms, including a variety of insects, amphibians, reptiles, mammals, and birds, but area also a source of food, nutrients, and carbon for organisms located downstream. The headwater wetlands are especially important for the water quality of a watershed. Water runoff from adjacent uplands may contain pollutants, sediments, excess nutrients (i.e. phosphorus and nitrogen), etc. The runoff flows through the wetlands where contaminants are filtered out before the water enters the tributaries and flows to downstream TNWs, thereby reducing eutrophication. In addition, excess water can be stored temporarily, minimizing potential flooding of downstream areas and slowly release water downstream to maintain seasonal flow volumes. Runoff water may also transport organisms, nutrients, and carbon from the wetlands into the tributaries, which continue to flow to downstream TNWs.

### C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:

- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of 3. presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The on-site wetland in the review area does not directly abut an RPW. It has a connection with downstream waters via a linear non-jurisdictional drainage features (on-site ditch) that drains through a pipe under Hwy 78 to an underground storm drain that runs parallel with Hwy 78 before discharging into Bluehouse Swamp. The on-site wetland has an ecological connection with the downstream areas as wildlife can move between the subject wetland and other wetlands, tributaries, and natural areas in the vicinity. Organisms that typically use these areas include mammals, reptiles, amphibians, and birds. The DHEC Watershed analysis indicates that the project area is located in HUC#03050201-070, Goose Creek. Downstream of the project site, aquatic life uses are not supported in Goose Creek at the US 52 crossing due to dissolved oxygen excursions, which are compounded by a significant decreasing trend in dissolved oxygen concentration. However, significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. There is also a significant increasing trend in pH. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter. Downstream at the S-08-136 bridge, aquatic life uses are fully supported. There has been a historic problem with excessive aquatic plant growth in Goose Creek Reservoir which has required treatment with aquatic herbicides. This subject wetland is ecologically important as a headwater wetland because it protects the quality of downstream waters by filtering out pollutants, sediments, and excess nutrients, etc. from water runoff from adjacent uplands. In addition, excess water can be stored here minimizing potential flooding of downstream areas and can also slowly release water downstream to maintain seasonal flow volumes. Runoff water may also transport organisms, nutrients, and carbon from the wetlands into the tributaries, which continue to flow to downstream TNWs. The 0.504 acre wetland has a significant nexus to downstream TNWs.

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

- D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):
  - **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
     TNWs: linear feet width (ft), Or, acres.
     Wetlands adjacent to TNWs: acres.
  - 2. RPWs that flow directly or indirectly into TNWs.

Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Bluehouse Swamp is a large freshwater wetland system that extends ~4.5 miles and encompasses ~1350 acres. The swamp retains water/flow virtually year round as noted by Corps' employee traveling to/from work on I-26. The perennial RPW located in the review area is not located on the subject property as part of the JD, but is evaluated as part of the significant nexus determination.

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 fee	t	width (ft).
Other non-wetland w	aters:	acres.	

Identify type(s) of waters:

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

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

acres.

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

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale

indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

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

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: 0.504 acres.

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

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

# 7. Impoundments of jurisdictional waters.<sup>9</sup>

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
  - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

**Explain:** 

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

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

### Identify water body and summarize rationale supporting determination:

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

Tributary waters: linear feet width (ft).

- Other non-wetland waters: acres.
- Identify type(s) of waters:
- Wetlands: acres.

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

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
  - Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).



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):

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

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

	Non-wetland waters (i.e., rivers, streams): Lakes/ponds: acres.	linear feet	width (ft).				
	Other non-wetland waters: acres. List type Wetlands: acres.	of aquatic reso	urce: .				
	inding is required for jurisdiction (check all that app	oly):	area that do not meet the "Significant Nexus" standard, where such				
	Lakes/ponds: acres.	linear feet,	width (ft).				
	Other non-wetland waters: acres. List type Wetlands: acres.	e of aquatic reso	ource: .				
<u>SECTIO</u>	ON IV: DATA SOURCES.						
	<b>PORTING DATA. Data reviewed for JD</b> (check d requested, appropriately reference sources below):		- checked items shall be included in case file and, where checked				
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	<ul> <li>Office concurs with data sheets/delineation rep</li> <li>Office does not concur with data sheets/deline</li> </ul>		ts originally submitted 12/6/12. Revised and submitted: 1//17/13				
	Data sheets prepared by the Corps: .	ation report.					
	Corps navigable waters' study:						
	U.S. Geological Survey Hydrologic Atlas:						
	USGS NHD data. USGS 8 and 12 digit HUC maps.						
$\bowtie$	U.S. Geological Survey map(s). Cite scale & quad	d name: Ladso	n.				
$\boxtimes$	USDA Natural Resources Conservation Service S	Soil Survey. Cita	ation: Charleston Soil Survey/Sheet 23.				
	National wetlands inventory map(s). Cite name: Charleston/ 2006 ARC GIS Raster.						
	State/Local wetland inventory map(s): FEMA/FIRM maps:						
H	-	nal Geodectic V	ertical Datum of 1929)				
$\square$	Photographs: $\square$ Aerial (Name & Date): <b>2006</b> Al						
	or $\square$ Other (Name & Date): .						
	Previous determination(s). File no. and date of re	esponse letter:					
	Applicable/supporting case law:						
H	Applicable/supporting scientific literature: Other information (please specify):	•					
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B. ADDITIONAL COMMENTS TO SUPPORT JD: There are 0.504 acre of jurisdictional wetlands on the 4.128 acre tract. It is also noted that there is an excavated linear conveyance located within the wetland. The conveyance does not have a bed/bank and no ordinary high water mark, therefore, it is not considered a tributary. However, this on-site linear conveyance provides the connection through which the subject wetland is jurisdictional, as the conveyance extends off-site towards Hwy 78 where it flows into a pipe under Hwy 78 to an underground storm drainage system which runs parallel with Hwy 78 and flows into Bluehouse Swamp which extends north to the Goose Creek swamp system to Goose Creek Reservoir, through Goose Creek into the Cooper River, a TNW. The subject wetland was determined to be jurisdictional through a site visit, and review of aerial photos, quad sheets, soil survey and NWI information.