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): January 5, 2016

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 2; SAC 2015-01069-4E Bishopville Solar I Site

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina
County/parish/borough: Lee
City: Center coordinates of site (lat/long in degree decimal format): Lat. 34.320211° N, Long. -79.917482° W.

Universal Transverse Mercator:

Name of nearest waterbody: Unnamed tributary of Black River
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Black River
Name of watershed or Hydrologic Unit Code (HUC): 03040205-02 (Black River Watershed)

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:
Field Determination. Date(s): October 14, 2015

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are no “navigable waters of the U.S.” within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.
Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

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

1. Waters of the U.S.

   a. Indicate presence of waters of U.S. in review area (check all that apply): 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: (SRPW Tributary 1) 1,630 linear feet: 4 width (ft) and/or acres.
      Wetlands: acres.

   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

   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be non-jurisdictional.

   Explain: Four linear features were observed within the project area and were determined to be non-jurisdictional. These features are considered man-made and were excavated within an agricultural field. Based on the lack of flow indicators, these linear features were determined to be non-jurisdictional ditches.

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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: Black River.

   Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 6, the Black River’s recommended limit of navigability is located at River Mile (RM) 107.7. The portion of the Black River located on site is the upstream terminus of the Black River and is located outside of the portion of the Black River that is a TNW. However, this RPW becomes a TNW at RM 107.7.

2. Wetland adjacent to TNW
   Summarize rationale supporting conclusion that wetland is “adjacent”:

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

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

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

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

If the waterbody 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: 71,890 acres; HUC 03040205-02
       Drainage area: 126 acres
       Average annual rainfall: 41.82-48.73 inches
       Average annual snowfall: 2.0 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 (or less) river miles from RPW.
           Project waters are 30 (or more) aerial (straight) miles from TNW.
           Project waters are 1 (or less) aerial (straight) miles from RPW.
           Project waters cross or serve as state boundaries. Explain: N/A.

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4 Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
Identify flow route to TNW\(^5\): The seasonal RPW located along the western property boundary flows directly into the Black River, a perennial RPW that becomes a TNW at RM 107.7, approximately 40 miles downstream. Tributary stream order, if known: This tributary is a 1\(^\text{st}\) order stream.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☒ Natural

Tributary properties with respect to top of bank (estimate):
Average width: 4 feet
Average depth: 3 feet
Average side slopes: Vertical (1:1 or less).

Primary tributary substrate composition (check all that apply):
☒ Silts ☒ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☒ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: The tributary is relatively stable with no erosion or sloughing banks observed. The entire length of this 1\(^{\text{st}}\) order sRPW is surrounded by palustrine forested wetlands, which further indicates that this tributary is stable.

Presence of run/riffle/pool complexes. Explain: No run/riffle/pool complexes observed.

Tributary geometry: Meandering. A review of the topographic map and aerials reveals that the majority of this tributary flows through forested wetlands. Tributary gradient (approximate average slope): 0-1 %

(c) Flow:
Tributary provides for: Seasonal flow

Estimate average number of flow events in review area/year: 20 (or greater)

Describe flow regime: The tributary provides seasonal flow based on a review of the aerials and topographic map, which depict the tributary as a shaded linear feature and a blue line, respectively. This sRPW was viewed one week after a major storm event that created over 12” of rainfall; however, leaf litter and debris were still observed within the channel. The composition of the channel consisted of muck, silts, and sand. This tributary flows south into the Black River, a pRPW. The Black River continues southeast where it becomes a TNW at RM 107.7.

Other information on duration and volume: In addition to being recharged by groundwater, the sRPW receives overland sheetflow from the adjacent wetlands and uplands in the drainage area and discrete and confined flow from the upstream non-jurisdictional ditches.

Surface flow is: Discrete and confined. Characteristics: Surface flow is restricted under normal conditions between the bed and banks of the tributary.

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

Tributary has (check all that apply):
☒ Bed and banks
☒ OHWM\(^6\) (check all indicators that apply):
☒ clear, natural line impressed on the bank ☒ the presence of litter and debris
☒ changes in the character of soil ☒ destruction of terrestrial vegetation
☒ shelving ☒ the presence of wrack line
☒ vegetation matted down, bent, or absent ☒ sediment sorting
☒ leaf litter disturbed or washed away ☒ scour
☒ sediment deposition ☒ multiple observed or predicted flow events
☒ water staining ☒ abrupt change in plant community
☐ other (list): .

Discontinuous OHWM.\(^7\) Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

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\(^5\) 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.

\(^6\) 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.

\(^7\) Ibid.
(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: The tributary has dark flowing water present, which is indicative of a blackwater system. Land use in this watershed is comprised of approximately 63% agricultural land, 20% forested wetland, 8% forested land, and 6% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, water, and barren land. The SCDHEC Watersheds website states that there is a low to moderate potential for growth in this watershed, which includes a portion of the City of Bishopville. Within the drainage area, the aerials and NWIs depict the majority of the land use as cleared agricultural land; however, the tributary is surrounded by palustrine forested wetlands.

Identify specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the potential exists for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and harvesting, to enter the off-site tributary. Because this land use requires regular manipulation of the soils, agricultural activities can create an increase in suspended sediments in the downstream tributaries. According to the SCDHEC website, the downstream monitoring station on the Black River (PD-353) states that aquatic life and recreational uses are fully supported. Significant decreasing trends in total phosphorus concentration and fecal coliform bacteria concentrations suggest improving conditions for these parameters. A fish consumption advisory has been issued for the Black River in this watershed due to the presence of mercury.

(iv) Biological Characteristics. Channel supports (check all that apply):
- Riparian corridor. Characteristics (type, average width): This 1st order pRPW supports a riparian zone approximately 100 linear feet wide that contributes to the health of the aquatic system by filtering out pollutants and preventing erosion.
- Wetland fringe. Characteristics: This tributary is located within a wetland system.
- Habitat for:
  - Federally Listed species. Explain findings: .
  - Fish/spawn areas. Explain findings: .
  - Other environmentally-sensitive species. Explain findings: .
- Aquatic/wildlife diversity. Explain findings: Based on information obtained using aerials and NWIs, approximately 8.2 acres of the drainage area is comprised of waters of the US. Therefore, this tributary and the adjacent wetlands provide important aquatic habitat for wildlife and a travel corridor for aquatic fauna.

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: acres
  - Wetland type. 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: .
    - Separated by berm/barrier. Explain: .

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

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

(iii) **Biological Characteristics.** Wetland supports (check all that apply):
- Riparian buffer. Characteristics (type, average width): .
- Vegetation type/percent cover. Explain: .
- Habitat for:
  - Federally Listed species. Explain findings: .
  - Fish/spawn areas. Explain findings: .
  - Other environmentally-sensitive species. Explain findings: .
- Aquatic/wildlife diversity. Explain findings: .

3. **Characteristics of all wetlands adjacent to the tributary (if any)**
All wetland(s) being considered in the cumulative analysis: 2
Approximately (8.2) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<table>
<thead>
<tr>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>4.2</td>
<td>Y</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Summarize overall biological, chemical and physical functions being performed: The seasonal RPW, and its off-site adjacent wetlands, are providing important biological, chemical, and physical functions. According to the SCDHEC Watersheds website, this watershed is comprised of approximately 63% agricultural land, 20% forested wetland, 8% forested land, and 6% urban land. Due to the predominance of agricultural land use in this watershed and in the drainage area, herbicides and other pesticides as well as sediment from soil manipulation activities are likely to enter the tributary and downstream TNW. The unnamed 1st order tributary together with its off-site adjacent wetlands act as a catch basin to help filter out pollutants from the neighboring uplands and to hold runoff prior to it flowing downstream into the TNW. Besides the obvious functions of stormwater attenuation, absorption, and overstory biomass input into the food web, the onsite wetlands provide a uniquely important ecological connection to other adjacent wetlands and the downstream pRPW. The normal movement of aquatic fauna, which is a criteria of the natural hydrologic condition, is expressively obvious in the current proximal location as well as historic connections prior to the construction of the berm. The off-site wetlands that directly abut the tributary support a diverse variety of animal species. These wetlands, in conjunction with the unnamed seasonal RPW that is a tributary of the Black River, collectively have a significant nexus to the downstream TNW.

C. **SIGNIFICANT NEXUS DETERMINATION**

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

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?

Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

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

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

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

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

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

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

2. **RPWs that flow directly or indirectly into TNWs.**
   - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:

   Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: The on-site 1st order tributary was determined to have seasonal flow based on a review of the aerals, topographic map, and information obtained during the site visit. The aerials depict this tributary as a shaded linear feature, and the topo map depicts it as a blue line, which usually represents a tributary. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinuous channel within bed and banks, and water staining. Seasonal flow indicators such as leaf litter and debris in the channel and a channel comprised of mucks, silts, and sands were observed. This 1st order seasonal RPW flows south into the Black River, a perennial RPW. The Black River continues southeast where it becomes a TNW at RM 107.7, approximately 40 miles downstream.

Provide estimates for jurisdictional waters in the review area (check all that apply):
- Tributary waters: (SRPW Tributary 1) 1,630 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.

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 jurisdictional. 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.\(^9\)
   - 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. 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.

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\(^8\)See Footnote # 3.
\(^9\)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.
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: Four linear features were observed within the project area and determined to be non-jurisdictional ditches.

☐ Other: (explain, if not covered above): Four linear features were observed within the project area and determined to be non-jurisdictional ditches.

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

☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

☐ Lakes/ponds: acres.

☐ Other non-wetland waters: acres. List type of aquatic resource: .

☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):

☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

☐ Lakes/ponds: acres.

☐ Other non-wetland waters: acres. List type of aquatic resource: .

☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

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

☐ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and drawing by Land Management Group.

☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps: .

☐ Corps navigable waters’ study: .


☐ USGS NHD data.

☐ USGS 8 and 12 digit HUC maps.

☐ U.S. Geological Survey map(s). Cite scale & quad name: Bishopville East; The topographic map depicts the on-site seasonal RPW as a blue line. The majority of the site is depicted as cleared uplands.

☐ USDA Natural Resources Conservation Service Soil Survey. Citation: Pg. 16; The soil survey maps the onsite seasonal RPW as Goldsboro, which is partially hydric.

☐ National wetlands inventory map(s). Cite name: The NWIs map the sRPW as palustrine forested wetlands (PFO1Ad) and uplands (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): SCDNR 2006, 99:11230:12; The aerials depict the majority of the site as cleared agricultural fields. However, the sRPW located along the western property boundary is surrounded by forested land. or ☒ Other (Name & Date): Site photographs dated October 14, 2015.

☐ Previous determination(s). File no. and date of response letter: .

☐ Applicable/supporting case law: .

☐ Applicable/supporting scientific literature: .

☐ Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: The RPW located along the western property boundary was determined to have seasonal flow based on a review of the topographic map, aerials, and site visit. The aerials depict this tributary as a shaded linear feature, and the topo map depicts it as a blue line, which usually represents a tributary. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinuous channel within bed and banks, and water staining. Seasonal flow indicators such as leaf litter and debris in the channel and a channel comprised of mucks, silts, and sands were observed. This 1st order seasonal RPW flows south into the Black River, a perennial RPW. The Black River continues southeast where it becomes a TNW at RM 107.7, approximately 40 miles downstream. This seasonal RPW as
well as the off-site abutting wetlands, were determined to have a significant nexus to the downstream TNW in Section IIIC above.
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):** January 5, 2016

B. **DISTRICT OFFICE, FILE NAME, AND NUMBER:** JD Form 2 of 2; SAC 2015-01069-4E Bishopville Solar I Site

C. **PROJECT LOCATION AND BACKGROUND INFORMATION:**
   - **State:** South Carolina  
   - **County/parish/borough:** Lee  
   - **City:**  
   - **Center coordinates of site (lat/long in degree decimal format):** Lat. 34.320211° N, Long. -79.917482° W.  
   - **Universal Transverse Mercator:**
   - **Name of nearest waterbody:** Black River  
   - **Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows:** Black River  
   - **Name of watershed or Hydrologic Unit Code (HUC):** 03040205-02 (Black River 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):** October 14, 2015

**SECTION II: SUMMARY OF FINDINGS**

A. **RHA SECTION 10 DETERMINATION OF JURISDICTION.**
   - There are no “navigable waters of the U.S.” within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]
   - **Waters subject to the ebb and flow of the tide:**
   - **Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce:** Explain:

B. **CWA SECTION 404 DETERMINATION OF JURISDICTION.**
   - There are “waters of the U.S.” within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

   1. **Waters of the U.S.**
      - **Indicate presence of waters of U.S. in review area (check all that apply):**
        - 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

      - **Identify (estimate) size of waters of the U.S. in the review area:**
        - Non-wetland waters: linear feet: width (ft) and/or acres.
        - Wetlands: (Jurisdictional Wetland 1) 1.4 acres.

   2. **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:

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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: Black River.

   Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 6, the Black River’s recommended limit of navigability is located at River Mile (RM) 107.7. The portion of the Black River located on site is the upstream terminus of the Black River and is located outside of the portion of the Black River that is a TNW. However, this RPW becomes a TNW at RM 107.7.

2. Wetland adjacent to TNW
   Summarize rationale supporting conclusion that wetland is “adjacent”:

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

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

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

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

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

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

(i) General Area Conditions:
   Watershed size: Pick List;
   Drainage area: Pick List
   Average annual rainfall: inches
   Average annual snowfall: inches

(ii) Physical Characteristics:
   (a) Relationship with TNW:
      ☐ Tributary flows directly into TNW.
      ☐ Tributary flows through Pick List tributaries before entering TNW.

      Project waters are Pick List river miles from TNW.
      Project waters are Pick List river miles from RPW.
      Project waters are Pick List aerial (straight) miles from TNW.
      Project waters are Pick List aerial (straight) miles from RPW.
      Project waters cross or serve as state boundaries. Explain: .

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4 Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
Identify flow route to TNW:\(^5\)

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  
- Cobble  
- Gravel  
- Bedrock  
- Vegetation. Type/\% cover:  
- Other. Explain:  

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  

Presence of run/riffle/pool complexes. Explain:  

**Tributary geometry**: **Pick List**  

**Tributary gradient** (approximate average slope):  

(c) Flow:

**Tributary** provides for: **Pick List**  

Estimate average number of flow events in review area/year: **Pick List**  

Describe flow regime:  

Other information on duration and volume:  

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

Subsurface flow: **Pick List** Explain findings:  

**Dye** (or other) test performed:  

**Tributary** has (check all that apply):

- Bed and banks  
- OHWM\(^6\) (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:  

**Mean High Water Mark** indicated by:  

- oil or scum line along shore objects  
- fine shell or debris deposits (foreshore)  
- physical markings/characteristics  
- tidal gauges  
- other (list):

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  

Explain:  

Identify specific pollutants, if known:  

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\(^5\) 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.

\(^6\) 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.

\(^7\) Ibid.
(iv) **Biological Characteristics. Channel supports (check all that apply):**
- [ ] Riparian corridor. Characteristics (type, average width): 
- [ ] Wetland fringe. Characteristics: 
- [ ] Habitat for:
  - [ ] Federally Listed species. Explain findings: 
  - [ ] Fish/spawn areas. Explain findings: 
  - [ ] Other environmentally-sensitive species. Explain findings: 
  - [ ] Aquatic/wildlife diversity. Explain findings: 

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

(i) **Physical Characteristics:**

(a) **General Wetland Characteristics:**
- Properties:
  - Wetland size: acres
  - Wetland type. Explain: 
  - Wetland quality. Explain: 
- Project wetlands cross or serve as state boundaries. Explain: 

(b) **General Flow Relationship with Non-TNW:**
- Flow is: **Pick List**. Explain: 
- Surface flow is: **Pick List**. Explain: 
- Subsurface flow: **Pick List**. Explain findings: 
- [ ] Dye (or other) test performed: 

(c) **Wetland Adjacency Determination with Non-TNW:**
- [ ] Directly abutting 
- [ ] Not directly abutting
  - [ ] Discrete wetland hydrologic connection. Explain: 
  - [ ] Ecological connection. Explain: 
  - [ ] Separated by berm/barrier. Explain: 

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

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

(iii) **Biological Characteristics. Wetland supports (check all that apply):**
- [ ] Riparian buffer. Characteristics (type, average width): 
- [ ] Vegetation type/percent cover. Explain: 
- [ ] Habitat for:
  - [ ] Federally Listed species. Explain findings: 
  - [ ] Fish/spawn areas. Explain findings: 
  - [ ] Other environmentally-sensitive species. Explain findings: 
  - [ ] Aquatic/wildlife diversity. Explain findings: 

3. **Characteristics of all wetlands adjacent to the tributary (if any)**
- All wetland(s) being considered in the cumulative analysis: **Pick List**
- Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<table>
<thead>
<tr>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
</tr>
</thead>
</table>
C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

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

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

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

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

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

2. RPWs that flow directly or indirectly into TNWs.
   - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Based on a review of the aerials, topographic map, soil survey, and NWIs, the off-site RPW named the Black River was determined to have perennial flow. The aerials and topo map depict this RPW as a shaded linear feature and a solid blue line, respectively. The soil survey maps the Black River as Johnston, a hydric soil. The NWIs map this tributary as palustrine forested wetlands (PFO1Fb). This perennial RPW continues southeast where it eventually becomes a TNW at RM 107.7, according to the USACE Navigability Study Report No. 6.

   - 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** 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 abutting an 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: The on-site jurisdictional wetland is a portion of a larger wetland system that continues south/southeast and directly abuts the off-site perennial RPW named the Black River. This wetland is depicted as palustrine forested (PFO1C) on the NWIs and is mapped Johnston, a hydric soil, on the soil survey (Pg. 16).

   Provide acreage estimates for jurisdictional wetlands in the review area: (Jurisdictional Wetland 1) 1.4 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 jurisdictional. 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.\(^8\)
   - 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):\(^9\)
   - 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: .

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\(^8\) See Footnote # 3.

\(^9\) 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.
Provide estimates for jurisdictional waters in the review area (check all that apply):
- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
- Identify type(s) of waters: .
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
- Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
- Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): :

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):
- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and drawing by Land Management Group.
- Office conurs with data sheets/delineation report.
- Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters’ study: .
- USGS NHD data: .
- USGS 8 and 12 digit HUC maps: .
- U.S. Geological Survey map(s). Cite scale & quad name: Bishopville East; The topographic map depicts the on-site wetland as forested wetlands system that abuts the Black River, a solid blue line.
- USDA Natural Resources Conservation Service Soil Survey. Citation: Pg. 16; The soil survey maps the onsite wetland and off-site perennial RPW as Johnston, a hydric soil.
- National wetlands inventory map(s). Cite name: The NWIs map the wetland as palustrine forested (PFO1C).
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): SCNRNR 2006, 99:11230:12; The aerials depict the majority of the site as cleared agricultural fields. However, the wetland and off-site pRPW are depicted as forested.
- or Other (Name & Date): Site photographs dated October 14, 2015.
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: The on-site jurisdictional wetland is a portion of a larger wetland system that continues south/southeast and directly abuts the off-site perennial RPW named the Black River. This wetland is depicted as palustrine forested (PFO1C) on the NWIs and is mapped Johnston, a hydric soil, on the soil survey (Pg. 16).
Based on a review of the aerials, topographic map, soil survey, and NWIs, the off-site RPW named the Black River was determined to have perennial flow. The aerials and topo map depict this RPW as a shaded linear feature and a solid blue line, respectively. The soil survey maps the Black River as Johnston, a hydric soil. The NWIs map this tributary as palustrine forested wetlands (PFO1Fb). This perennial RPW continues southeast where it eventually becomes a TNW at RM 107.7, according to the USACE Navigability Study Report No. 6.