#### 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): January 5, 2016

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 3; SAC 2015-01070-4E Bishopville Solar II 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. 34.208667° N, Long80.220388° W.  Universal Transverse Mercator:  Name of nearest waterbody: Lynches River  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lynches River  Name of watershed or Hydrologic Unit Code (HUC): 03040202-05 (Lynches 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
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce Explain:
В. (	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):   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: 60 linear feet: width (ft) and/or 0.1 acres.  Wetlands: (Jurisdictional Wetland 1) 24.6 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM.,
Esta	ablished by Corps navigation study.

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

Elevation of established OHWM (if known):

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>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>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.

#### **TNW**

Identify TNW: Lynches River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 10, the Lynches River's recommended limit of navigability is located at River Mile (RM) 114 and the Historic Limit of Navigability is located at RM 121. The portion of the Lynches River within the project site is located approximately at RM 97.

#### Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": The wetland on site labeled Jurisdictional Wetland 1 was determined to be adjacent to the Lynches River based on a review of the aerials, topographic map, soil survey, and NWIs. The aerials and topo map depict these wetlands as a portion of a larger wetland system that abuts the Lynches River. The soil survey maps this wetland as Johnston, a hydric soil, and the NWIs map this wetland as palustrine forested (PFO1B).

#### 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.

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

#### **General Area Conditions:** Watershed size: Pick List; Drainage area: **Pick List** Average annual rainfall: inches Average annual snowfall: inches

#### (ii) Phy

(a)

Project waters are Project waters are	Pick List river miles from TNW. Pick List river miles from RPW. Pick List aerial (straight) miles from TNW. Pick List aerial (straight) miles from RPW.

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

		Project waters cross or serve as state boundaries. Explain:
		Identify flow route to TNW <sup>5</sup> :  Tributary stream order, if known:
	(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate):  Average width: feet  Average depth: feet  Average side slopes: Pick List.
		Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck 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 <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation the presence of wack line sediment sorting sediment sorting sediment deposition multiple observed or predicted flow events abrupt change in plant community 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:
(iii)		emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  Explain:

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

<sup>&</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.

	(iv) Bio	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.	Charac	teristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
		ysical Characteristics: 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 Characteristics:
		Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
	(c)	Wetland Adjacency Determination with Non-TNW:  Directly abutting  Not directly abutting  Discrete wetland hydrologic connection. Explain:  Ecological connection. Explain:  Separated by berm/barrier. Explain:
	(d)	Proximity (Relationship) to TNW Project wetlands are Pick List river miles from TNW. Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain.
	Ch	emical Characteristics: aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .ntify specific pollutants, if known:
	(iii) Bio	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.	All	teristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis: Pick List proximately ( ) acres in total are being considered in the cumulative analysis.
	For	r each wetland, specify the following:
		Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Identify specific pollutants, if known:

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

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

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

## 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: 60 linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: 24.6 acres.
2.	RPWs that flow directly or indirectly into TNWs.
	Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).

	Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	■ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
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:
DEC SUC	CLATED [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:
Idei	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: .

E.

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

☐ Wetlands: acres.
NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above):
Provide acreage estimates for non-jurisdictional waters in the review area, where the 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.
TION IV: DATA SOURCES.  UPPORTING 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:  U.S. Geological Survey Hydrologic Atlas:  USGS NaHD 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 Lynches River.  USDA Natural Resources Conservation Service Soil Survey. Citation: Pg. 16; The soil survey maps the onsite wetland as Johnston, a hydric soil.  National wetlands inventory map(s). Cite name: The NWIs map the wetland as palustrine forested (PFO1B).  State/Local wetland inventory map(s):  FEMA/FIRM maps:  100-year Floodplain Elevation is:  (National Geodectic Vertical Datum of 1929)  Photographs: Aerial (Name & Date): SCDNR 2006, 99:11230:12; The aerials depict the wetland as forested.  or Other (Name & Date): Site photographs dated October 14, 2015.  Previous determination(s). File no. and date of response letter:  Applicable/supporting acsel aw:  Applicable/supporting scientific literature:  Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: The wetland on site labeled Jurisdictional Wetland 1 was determined to be adjacent to the Lynches River based on a review of the aerials, topographic map, soil survey, and NWIs. The aerials and topo map depict these wetlands as a portion of a larger wetland system that abuts the Lynches River. The soil survey maps this wetland as Johnston, a hydric soil, and the NWIs map this wetland as palustrine forested (PFO1B).

According to the USACE Navigability Study Report No. 10, the Lynches River's recommended limit of navigability is located at River Mile (RM) 114 and the Historic Limit of Navigability is located at RM 121. The portion of the Lynches River within the project site is located approximately at RM 97.

#### 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): January 5, 2016

B.	DISTRICT OFFICE.	FILE NAME.	AND NUMBER:	JD Form 2 of 3	SAC 2015-01070	-4E Bishopville Solar II Site
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В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 2 of 3; SAC 2015-01070-4E Bishopville Solar II 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. 34.208667° N, Long80.220388° W. Universal Transverse Mercator:
	Name of nearest waterbody: Unnamed tributary of Lynches River  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lynches River  Name of watershed or Hydrologic Unit Code (HUC): 03040202-05 (Lynches 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
SEC A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
B.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):   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
	<ul> <li>b. Identify (estimate) size of waters of the U.S. in the review area:         Non-wetland waters: (sRPW Tributary 1) 820 linear feet: 5width (ft) and/or acres.     </li> <li>Wetlands: acres.</li> </ul>
	c. Limits (boundaries) of jurisdiction based on: Established by OHWM., Pick List, Pick List Elevation of established OHWM (if known):
	<ul> <li>Non-regulated waters/wetlands (check if applicable):<sup>3</sup></li> <li>Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.</li> </ul>

Explain: The upstream portion of sRPW 1 in the project area was observed and determined to be non-jurisdictional. This linear feature had no OHWM or other indicators of flow observed during the site visit. A headcut within the

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

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

linear feature was determined to distinguish the non-jurisdictional ditch from the downstream seasonal RPW discussed below.

#### **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: Lynches River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 10, the Lynches River's recommended limit of navigability is located at River Mile (RM) 114 and the Historic Limit of Navigability is located at RM 121. The portion of the Lynches River within the project site is located approximately at RM 97.

#### 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: 126,827 acres; HUC 03040205-05

Drainage area: 58 acres

Average annual rainfall: 41.82-48.73 inches

Average annual snowfall: 2.0 inches

#### (ii) Physical Characteristics:

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

☐ Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are 1 (or less) river miles from TNW.

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

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

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

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

	Identify flow route to TNW <sup>5</sup> : The seasonal RPW located near the western property boundary flows directly into the Lynches River, a TNW.  Tributary stream order, if known: This tributary is a 1 <sup>st</sup> order stream.
	Thouasy sheam order, it known. This tributary is a 1° order stream.
(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: 5 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 bughing banks observed  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 was through forested wetlands
21000017 2101	Tributary gradient (approximate average slope): <b>0-1</b> %
obtained duri a major storn composition o	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 information ing the site visit. The aerials depict the tributary as a shaded linear feature. This sRPW was viewed one week after nevent that created over 12" of rainfall; however, leaf litter and debris were still observed within the channel. The of the channel consisted of muck, silts, and sand. This tributary flows east into the Lynches River, a TNW.  Other information on duration and volume: In addition to being recharged by groundwater, the sRPW receives efflow from the adjacent wetlands and uplands in the drainage area and discrete and confined flow from the n-jurisdictional ditch.
he bed and b	Surface flow is: <b>Discrete and confined</b> . Characteristics: <b>Surface flow is restricted under normal conditions between panks of the tributary</b> .
	Subsurface flow: <b>Unknown</b> . Explain findings:  Dye (or other) test performed:
	Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  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 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:

Project waters cross or serve as state boundaries. Explain: N/A.

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

<sup>&</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. Tbid.

	<ul> <li>□ oil or scum line along shore objects</li> <li>□ fine shell or debris deposits (foreshore)</li> <li>□ physical markings/characteristics</li> <li>□ tidal gauges</li> <li>□ other (list):</li> <li>□ survey to available datum;</li> <li>□ physical markings;</li> <li>□ vegetation lines/changes in vegetation types.</li> </ul>
potential e harvesting can create downstrea excursions total nitro	Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  Explain: The tributary has clear flowing water present. Land use in this watershed is comprised of approximately 40% agricultural land, 30% forested wetland, 22% forested land, and 5% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a low to moderate potential for growth in this watershed, which includes portions of the City of Bishopville and the Towns of Lynchburg and Cartersville.  dentify specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the xists for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and to enter the off-site tributary. Because this land use requires regular manipulation of the soils, agricultural activities an increase in suspended sediments in the downstream tributaries. According to the SCDHEC website, the m monitoring station on the Lynches River (PD-364) states that aquatic life uses are not supported due to pH. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, total phosphorus concentration and gen concentrations suggest improving conditions for these parameters. Recreational uses are supported. A fish on advisory has been issued for the Lynches River in this watershed due to the presence of mercury.
hundred li bundred li floodplain	Riparian corridor. Characteristics (type, average width): This 1st order pRPW supports a riparian zone several near feet wide that contributes to the health of the aquatic system by filtering out pollutants and preventing erosion.  Wetland fringe. Characteristics: The majority of this tributary is located within a wetland system that comprises the of the Lynches River.
	<ul> <li>☐ Habitat for:</li> <li>☐ Federally Listed species. Explain findings:</li> <li>☐ Fish/spawn areas. Explain findings:</li> <li>☐ Other environmentally-sensitive species. Explain findings:</li> <li>☐ Aquatic/wildlife diversity. Explain findings: This tributary provides important aquatic habitat for wildlife and a for aquatic fauna.</li> </ul>
	acteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	Chysical 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 Characteristics:
	Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
(.	Wetland Adjacency Determination with Non-TNW:  Directly abutting Not directly abutting Discrete wetland hydrologic connection. Explain: Ecological connection. Explain: Separated by berm/barrier. Explain:
(,	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.

	Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershe 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:
3.	Aquatic/wildlife diversity. Explain findings:  Characteristics of all wetlands adjacent to the tributary (if any)  All wetland(s) being considered in the cumulative analysis: Pick List  Approximately ( ) acres in total are being considered in the cumulative analysis.
	For each wetland, specify the following:
	<u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u>

Summarize overall biological, chemical and physical functions being performed: The seasonal RPW is providing important biological, chemical, and physical functions. According to the SCDHEC Watersheds website, land use in this watershed is comprised of approximately 40% agricultural land, 30% forested wetland, 22% forested land, and 5% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a low to moderate potential for growth in this watershed, which includes portions of the City of Bishopville and the Towns of Lynchburg and Cartersville. Due to the predominance of agricultural land use in this watershed and the presence of a landfill within the drainage area, herbicides and other pollutants are likely to enter the tributary and downstream TNW. The unnamed 1st order tributary acts 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 seasonal RPW provides a uniquely important ecological connection to the downstream TNW. The unnamed seasonal RPW that is a tributary of the Lynches River has 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 is 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. This tributary is 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 tributary helps reduce stormwater flow. 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. This seasonal RPW temporarily stores flood waters and reduces downstream peak flows. 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 Lynches River, it has been determined that there is a significant nexus between the relevant reach of the seasonal RPW 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 aerials and information obtained during the site visit. The aerials depict this tributary as a shaded linear feature. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinous 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 east into the Lynches River, a TNW.
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: (SRPW Tributary 1) 820 linear feet 5 width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .

<sup>8</sup>See Footnote # 3.

	4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale
		indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	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:
Е.	SUC 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:
		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.		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).
pro	∐ ject a	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above): The linear feature located upstream of seasonal RPW 1 was observed within the area and determined to be a non-jurisdictional ditch.

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

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
juag	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 ading 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.
SECTIO	ON IV: DATA SOURCES.
and SGro RP Seas	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and drawing by Land Management http.  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:  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: Bishopville East; The topographic map depicts the on-site seasonal was a drainage feature located within a decreasing topographic gradient.  USDA Natural Resources Conservation Service Soil Survey. Citation: Pg. 16; The soil survey maps the onsite portion of the sonal RPW as Barnwell, which is not hydric.  National wetlands inventory map(s). Cite name: The NWIs map the sRPW as palustrine forested wetlands (PFO1B). State/Local wetland inventory map(s):  FEMA/FIRM maps:  100-year Floodplain Elevation is:  (National Geodectic Vertical Datum of 1929)  Photographs: Aerial (Name & Date): SCDNR 2006, 99:11230:12; The aerials depict the majority of the site as cleared icultural 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):
В.	ADDITIONAL COMMENTS TO SUPPORT JD: The on-site 1st order tributary was determined to have seasonal flow based on a review of the aerials and information obtained during the site visit. The aerials depict this tributary as a shaded linear feature. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinous 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 east into the Lynches River, a TNW. This seasonal RPW was determined to have a significant nexus to the downstream TNW in Section IIIC above.

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

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

#### **SECTION I: BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): January 5, 2016

В.	DISTRICT OFFICE	, FILE NAME	, AND NUMBER:	JD Form 3 of 3	; SAC 2015-01070-4E	Bishopville Solar II Site

В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 3 of 3; SAC 2015-01070-4E Bishopville Solar II 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. 34.208667° N, Long80.220388° W.  Universal Transverse Mercator:  Name of nearest waterbody: Unnamed tributary of Lynches River  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lynches River  Name of watershed or Hydrologic Unit Code (HUC): 03040202-05 (Lynches 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
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce Explain:
B.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):   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
	<ul> <li>b. Identify (estimate) size of waters of the U.S. in the review area:         Non-wetland waters: (sRPW Tributary 2a &amp; 2b) 3,350 linear feet: 4width (ft) and/or acres.     </li> <li>Wetlands: acres.</li> </ul>
	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): <sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The upstream portion of sRPW 2 in the project area was observed and determined to be non-jurisdictional. This linear feature had no OHWM or other indicators of flow observed during the site visit. A road crossing with no

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

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

culvert present within the linear feature was determined to distinguish the non-jurisdictional ditch from the downstream seasonal RPW discussed below.

#### **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: Lynches River.

Summarize rationale supporting determination: According to the USACE Navigability Study Report No. 10, the Lynches River's recommended limit of navigability is located at River Mile (RM) 114 and the Historic Limit of Navigability is located at RM 121. The portion of the Lynches River within the project site is located approximately at RM 97.

#### 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: 126,827 acres; HUC 03040205-05

Drainage area: 234 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 **Pick List** tributaries before entering TNW.

Project waters are 1 (or less) river miles from TNW.

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

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

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

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

	Project waters cross or serve as state boundaries. Explain: N/A.
	Identify flow route to TNW <sup>5</sup> : <b>The seasonal RPW located near the northern property boundary flows directly into the Lynches River, a TNW</b> .  Tributary stream order, if known: <b>This tributary is a 1</b> <sup>st</sup> <b>order stream</b> .
(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: This 1st order tributary has been straightened in several flows between agricultural fields and along the northern property boundary.
	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 bughing banks observed  Presence of run/riffle/pool complexes. Explain: No run/riffle/pool complexes observed.  Tributary geometry: Relatively straight. A review of the aerials and topographic map shows that this tributary has ened to flow between agricultural fields and along the northern property boundary of the site.  Tributary gradient (approximate average slope): 0-1 %
map, and inf topographic created over channel cons overland she	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, the topographic ormation obtained during the site visit. The aerials depict the tributary as a shaded linear feature, and the map depicts this feature as a dashed blue line. This sRPW was viewed one week after a major storm event that 12" of rainfall; however, leaf litter and debris were still observed within the channel. The composition of the isted of silts and sand. This tributary flows east into the Lynches River, a TNW.  Other information on duration and volume: In addition to being recharged by groundwater, the sRPW receives etflow from the adjacent wetlands and uplands in the drainage area and discrete and confined flow from the n-jurisdictional ditch.
the bed and	Surface flow is: Discrete and confined. Characteristics: Surface flow is restricted under normal conditions between panks of the tributary.
	Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	Tributary has (check all that apply):  Bed and banks  OHWM <sup>6</sup> (check all indicators that apply):  clear, natural line impressed on the bank changes in the character of soil changes in the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting scour cource sediment deposition change in plant community change in plant community community change in plant community

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

			If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):  High Tide Line indicated by:  Oil or scum line along shore objects  Fine shell or debris deposits (foreshore)  Physical markings/characteristics  Didal gauges  Other (list):  Mean High Water Mark indicated by:  Survey to available datum;  Physical markings;  Vegetation lines/changes in vegetation types.
ha car do exc tot	tentia rvesti n crea wnstr cursic	Ider al existing, to the area area area area area area area ar	emical Characteristics:  tracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  Explain: The tributary has clear flowing water present. Land use in this watershed is comprised of approximately 40% agricultural land, 30% forested wetland, 22% forested land, and 5% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a low to moderate potential for growth in this watershed, which includes portions of the City of Bishopville and the Towns of Lynchburg and Cartersville.  In tify specific pollutants, if known: Because a large portion of the watershed is comprised of agricultural land, the sets for herbicides and other pesticides, as well as runoff from land disturbing activities such as plowing and the enter the off-site tributary. Because this land use requires regular manipulation of the soils, agricultural activities in increase in suspended sediments in the downstream tributaries. According to the SCDHEC website, the monitoring station on the Lynches River (PD-364) states that aquatic life uses are not supported due to pH Significant decreasing trends in five-day biochemical oxygen demand, turbidity, total phosphorus concentration and a concentrations suggest improving conditions for these parameters. Recreational uses are supported. A fish advisory has been issued for the Lynches River in this watershed due to the presence of mercury.
	(iv)	Biol	logical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width): The downstream portion of this 1st order pRPW supports a
			e several hundred linear feet wide that contributes to the health of the aquatic system by filtering out pollutants and
pr	event	ing ei	rosion.  Wetland fringe. Characteristics: .
		$\boxtimes$	Habitat for:
			Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:
			☐ Other environmentally-sensitive species. Explain findings:  ☐ Aquatic/wildlife diversity. Explain findings: This tributary provides important aquatic habitat for wildlife and a
ravel c	orrid	or fo	r aquatic fauna.
2.	Ch	aract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		rsical Characteristics: 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 Characteristics:
			Subsurface flow: <b>Pick List</b> . Explain findings:  Dye (or other) test performed:
		(a)	Wetland Adjacency Determination with Non-TNW:
		(c)	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 <b>Pick List</b> river miles from TNW.
			Project waters are <b>Pick List</b> aerial (straight) miles from TNW. Flow is from: <b>Pick List</b> .
			Estimate approximate location of wetland as within the <b>Pick List</b> floodplain.

	(ii)	Chemical Characteristics: Characterize wetland system (e. characteristics; etc.). Expl Identify specific pollutants, if k	ain: .	ar, brown, oil film on surface	e; water quality; general wa	tershed
	(iii)	Biological Characteristics. W  Riparian buffer. Character Vegetation type/percent co Habitat for: Federally Listed specie Fish/spawn areas. Expl Other environmentally- Aquatic/wildlife divers	ristics (type, average over. Explain: s. Explain findings: ain findings: . sensitive species. E.	width): xplain findings:		
3.	Cha	Aracteristics of all wetlands adjusted All wetland(s) being considered Approximately ( ) acres in the control of the control o	I in the cumulative ar		alysis.	
		For each wetland, specify the fo	ollowing:			
		Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)	

Summarize overall biological, chemical and physical functions being performed: The seasonal RPW is providing important biological, chemical, and physical functions. According to the SCDHEC Watersheds website, land use in this watershed is comprised of approximately 40% agricultural land, 30% forested wetland, 22% forested land, and 5% urban land. The remaining land uses in this watershed include scrub/shrub land, non-forested wetlands, and water. The SCDHEC Watersheds website states that there is a low to moderate potential for growth in this watershed, which includes portions of the City of Bishopville and the Towns of Lynchburg and Cartersville. Due to the predominance of agricultural land use in this watershed and the presence of a landfill within the drainage area, herbicides and other pollutants are likely to enter the tributary and downstream TNW. The unnamed 1st order tributary acts 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 seasonal RPW provides a uniquely important ecological connection to the downstream TNW. The unnamed seasonal RPW that is a tributary of the Lynches River has 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 is 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. This tributary is 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 tributary helps reduce stormwater flow. 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. This seasonal RPW temporarily stores flood waters and reduces downstream peak flows. 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 Lynches River, it has been determined that there is a significant nexus between the relevant reach of the seasonal RPW 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 aerials and topographic map as well as information obtained during the site visit. The aerials depict this tributary as a shaded linear feature, and the topographic map depicts this tributary as a dashed blue line. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinous 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 silts and sands were observed. This 1st order seasonal RPW flows east into the Lynches River, a TNW.
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: (SRPW Tributary 2a & 2b) 3,350 linear feet 4 width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
3.	Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply):

	Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:  Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
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:
DE	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:
Pro	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.
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).

E.

F.

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

$\boxtimes$	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above): The linear feature located upstream of seasonal RPW 2 was observed within the ea and determined to be a non-jurisdictional ditch.
factor judgm   N   I	de acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR rs (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional ment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.
a find:	de acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such ling 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	NIV: DATA SOURCES.
and re  Group  Group  I  I  I  I  I  RPW  Season  (PFO  I  I  I  I  I  I  I  I  I  I  I  I  I	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:  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: Bishopville East; The topographic map depicts the on-site seasonal as a dashed blue line.  USDA Natural Resources Conservation Service Soil Survey. Citation: Pg. 16; The soil survey maps the onsite portion of the nal RPW as Rains, which is a hydric soil, and Noboco, which is not hydric.  National wetlands inventory map(s). Cite name: The NWIs map the sRPW as uplands (U21) and palustrine forested wetlands into all inventory map(s):  State/Local wetland inventory map(s):  SEMA/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 ultural fields. The upstream portion of the seasonal RPW 2a & 2b is located within the agricultural fields; however, it nues east and flows within wetlands adjacent to the Lynches River.  or A 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 d	ADDITIONAL COMMENTS TO SUPPORT JD: The on-site 1st order tributary was determined to have seasonal flow based on a review of the aerials and topographic map as well as information obtained during the site visit. The aerials depict this tributary as a shaded linear feature, and the topographic map depicts this tributary as a dashed blue line. During the site visit, this feature was observed as having flow indicators such as an OHWM, a sinous 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 silts and sands were observed. This 1st order seasonal RPW flows east into the Lynches River, a TNW. This seasonal RPW was determined to have a significant nexus to the downstream TNW in Section IIIC above.

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