

**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 17, 2018
- B. DISTRICT OFFICE, FILE NAME, AND NUMBER:** Butler Property – Bryant/Alexander, Arkansas – AJD; SWL-2017-00349
- C. PROJECT LOCATION AND BACKGROUND INFORMATION:**

State: Arkansas County/parish/borough: Pulaski City: Bryant/Alexander, Arkansas  
 Center coordinates of site (lat/long in degree decimal format): Lat. 34.63186°, Long. -92.46892°  
 Universal Transverse Mercator: NAD 83/UTM Zone 15, 3832346.84 Northing, 548678.29 Easting  
 Name of nearest waterbody: Crooked Creek  
 Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fourche Creek and then the Arkansas River  
 Name of watershed or Hydrologic Unit Code (HUC): 11110207, Lower Arkansas-Maumelle

- 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: January 3, 2018
- Field Determination. Date(s):

**SECTION II: SUMMARY OF FINDINGS**

**A. RHA SECTION 10 DETERMINATION OF JURISDICTION.**

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

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

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

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

**1. Waters of the U.S.**

**a. Indicate presence of waters of U.S. in review area (check all that apply):<sup>1</sup>**

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
- Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
- Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- Impoundments of jurisdictional waters
- Isolated (interstate or intrastate) waters, including isolated wetlands

**b. Identify (estimate) size of waters of the U.S. in the review area:**

Non-wetland waters:

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Stream Identifier	OHWL (ft)	OHWW (ft)	OHWD (ft)	Stream Type
UT-0	475	2.0	0.2	ephemeral
UT-1	45	1.0	0.1	ephemeral
UT-2	592	2.2	0.4	ephemeral
UT-2A	119	1.0	0.1	ephemeral
UT-3	746	5.0	0.6	intermittent
UT-3A	371	1.0	0.1	ephemeral

<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).

UT-4	411	2.5	0.2	ephemeral
UT-5	1,700	2.2	0.3	ephemeral
UT-5A	882	2.2	0.3	ephemeral
UT-5B	186	5.0	0.3	ephemeral
UT-6	298	2.5	0.1	ephemeral
UT-6A	169	1.0	0.1	ephemeral
UT-7	1,358	3.8	0.8	intermittent
UT-8	840	4.3	0.6	intermittent

Wetlands: Wetland 1 is approximately 0.34 acres; Wetland 2 is approximately 0.25 acres.

**c. Limits (boundaries) of jurisdiction based on:** 1987 Delineation Manual

Elevation of established OHWM (if known): Unknown

**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:

**SECTION III: CWA ANALYSIS**

**A. TNWs AND WETLANDS ADJACENT TO TNWs**

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

**1. TNW**

Identify TNW:

Summarize rationale supporting determination:

**2. Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”:

**B. Characteristics of Tributary (That Is Not a TNW) and Its Adjacent Wetlands (If Any):**

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

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

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

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

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

**(i) General Area Conditions:**

Watershed size: 2,450 acres

Drainage area: 7,784 acres

Average annual rainfall: 49.8 inches

Average annual snowfall: 3.5 inches

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

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

(ii) **Physical Characteristics:**

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributaries UT-3, 4, and 8 flow through 2 tributaries before entering TNW.

Tributaries UT-2, 3A, 5A, and 7 flow through 3 tributaries before entering

TNW. Tributaries UT-0, 1, 2A, 5, 5B, and 6 flow through 4 tributaries before entering TNW. Tributary UT-6A flows through 5 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 15-20 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: No, the project waters are located in Central Arkansas

Identify flow route to TNW<sup>5</sup>: UT-0, 1, and 2A flow through UT-2, 3, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-2, 3A, and 7 flow through UT-3, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-3, 4, and 8 flow through Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-5 flows through UT-5A, 4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-5A flows through UT-4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-5B flows through UT-5A, 4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-6 flows through UT-7, 3, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

UT-6A flows through UT-6, 7, 3, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW).

Tributary stream order, if known: UT-2, 3A, 4, 5, 5B, 6, 7, and 8 are first order streams. UT-0, 1, 2A, 3, 5A, and 6A are second order streams,

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

**Tributary** is:  Natural: UT-1, 2, 2A, 3A, 4, 5, 5A, 5B, 6, and 6A are natural.

Artificial (man-made). Explain:

Manipulated (man-altered). Explain: UT-0, 3, 7, and 8 have been channelized to some extent for residential development and Interstate 30 construction.

**Tributary** properties with respect to top of bank (estimate):

Average width: (Refer to Section II.B.1.b)

Average depth: (Refer to Section II.B.1.b)

Average side slopes: 3:1

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: All tributaries have stable banks.

Presence of run/riffle/pool complexes. Explain: None of the tributaries exhibited run/riffle/pool complexes.

Tributary geometry: Meandering

Tributary gradient (approximate average slope): 2%

(c) Flow:

Tributary provides for: UT-3, 7, and 8 provide for intermittent flow. The other streams are ephemeral.

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

Describe flow regime: Due to upper headwater of drainage and upstream topography, all the ephemeral streams are from primarily urban rainfall runoff. The three intermittent streams flow is from groundwater and urban rainfall runoff.

<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.

Other information on duration and volume: All of the ephemeral streams contain water only shortly after rainfall events. Two of the intermittent streams, UT-3 and UT-8, are fairly incised, likely due to the flashy hydrology in the watershed. Surface flow is: Discrete and Confined.

Subsurface flow: Unknown.

Dye (or other) test performed:

Tributary has (check all that apply):

Bed and banks

OHWM<sup>6</sup> (check all indicators that apply):

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> clear, natural line impressed on the bank | <input type="checkbox"/> the presence of litter and debris          |
| <input type="checkbox"/> changes in the character of soil                     | <input type="checkbox"/> destruction of terrestrial vegetation      |
| <input type="checkbox"/> shelving   | <input type="checkbox"/> the presence of wrack line                 |
| <input checked="" type="checkbox"/> vegetation matted down, bent, or absent   | <input type="checkbox"/> sediment sorting                           |
| <input checked="" type="checkbox"/> leaf litter disturbed or washed away      | <input checked="" type="checkbox"/> scour                           |
| <input checked="" type="checkbox"/> sediment deposition                       | <input type="checkbox"/> multiple observed or predicted flow events |
| <input type="checkbox"/> water staining                                       | <input type="checkbox"/> abrupt change in plant community           |
| <input type="checkbox"/> 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):

- |  |  |
|--|--|
| <input type="checkbox"/> High Tide Line indicated by:              | <input type="checkbox"/> Mean High Water Mark indicated by:            |
| <input type="checkbox"/> oil or scum line along shore objects      | <input type="checkbox"/> survey to available datum;                    |
| <input type="checkbox"/> fine shell or debris deposits (foreshore) | <input type="checkbox"/> physical markings;                            |
| <input type="checkbox"/> physical markings/characteristics         | <input type="checkbox"/> vegetation lines/changes in vegetation types. |
| <input type="checkbox"/> tidal gauges                              |  |
| <input type="checkbox"/> other (list):                             |  |

**(iii) Chemical Characteristics:**

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

Explain: Typical of urban runoff that enters a forested area, being slightly discolored from sediment.

Identify specific pollutants, if known:

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

- Riparian corridor. Characteristics (type, average width): forested, the entire review areas is forested.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings: The three intermittent streams provide for small fish habitat and spawning areas.
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: All ephemeral streams provide limited habitat for amphibians and reptiles and micro-organisms. The intermittent stream provides habitat for small fish, amphibians, reptiles and micro-organisms.

**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: Wetland1 consist of 0.34 acres; wetland 2 consist of 0.25 acres.

Wetland type. Explain: Both wetlands are forested wetlands

Wetland quality. Explain: The wetlands are of fair quality since they do not hold water year round.

Project wetlands cross or serve as state boundaries. Explain: No. The wetlands are located in Central Arkansas.

**(b) General Flow Relationship with Non-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.

Flow is: Ephemeral Flow Explain:

Surface flow is: Discrete and Confined

Characteristics: Both wetlands are bisected by ephemeral streams (wetland 1 by UT-5 and wetland 2 by UT-4).

Subsurface flow: Unknown Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

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

Project waters are 15-20 aerial (straight) miles from TNW.

Flow is from: Wetland to Navigable Waters

Estimate approximate location of wetland as within the 500-year or greater 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: Wetland water color is brown due to increased turbidity from flashy runoff following rainfall events. Terrain along the majority of the site is characterized by gently rolling hills, giving rise to ephemeral drains in many of the topographically low areas. All drainages generally flow in a south to southeast direction into tributaries of Crooked Creek.

Identify specific pollutants, if known: Unknown.

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

Riparian buffer. Characteristics (type, average width): forested, the entire review area is forested.

Vegetation type/percent cover. Explain: Dominant vegetation in wetland 1 consists of sweet gum, willow oak, and muscadine vine. Dominant vegetation in wetland 2 consists of willow oak and sweet gum in the overstory, dogwood, maple, and bitternut hickory in the understory, and greenbrier and spiderwort sparsely available as ground cover,

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Limited habitat for amphibians and reptiles and macro- and microorganisms.

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

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

Approximately (0.59) 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>
Wetland 1	Yes	0.34		
Wetland 2	Yes	0.25		

Summarize overall biological, chemical and physical functions being performed: Wetlands 1 and 2 provide wildlife habitat and refugia for aquatic life, transportation of storm water runoff, and cycling nutrients and organic matter within the watershed.

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: UT-0, 1, and 2A flow through UT-2, 3 (intermittent), Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-2 and 3A, flow through UT-3 (intermittent), Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-4 flows through Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-5 flows through UT-5A, 4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-5A flows through UT-4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-5B flows through UT-5A, 4, Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-6 flows through UT-7 (intermittent), 3 (intermittent), Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-6A flows through UT-6, 7 (intermittent), 3 (intermittent), Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). All non-RPW streams provide limited aquatic habitat due to their ephemeral nature except in pooled areas where they provide minimal and temporary aquatic habitat following storm events for reptiles and amphibians, as well as macro- and micro-invertebrates.
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: UT-5A is an ephemeral stream, that during and following storm events, conveys water into Wetland 1 and then into Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). UT-4 is an ephemeral stream, that during and following storm events, conveys water into Wetland 2 and then into Crooked Creek, Fourche Creek, and into the Arkansas River (TNW). Both UT-5A and UT-4 provide limited aquatic habitat due to their ephemeral nature, except in pooled areas, where they provide minimal and temporary aquatic habitat following storm events for reptiles and amphibians, as well as macro- and micro-invertebrates.
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:

**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: National Hydrography Dataset (NHD) indicates that streams UT-3, 7 and 8 are intermittent with only seasonal flow.  
Provide estimates for jurisdictional waters in the review area (check all that apply):
    - Tributary waters: Refer to Section II.B.1.b for dimensions of intermittent streams.
    - 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):

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

Tributary waters: Refer to Section II.B.1.b for dimensions of ephemeral streams.

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: Refer to Section II.B.1.b for dimensions of wetlands.

**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).

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

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

Interstate isolated waters. Explain:

Other factors. Explain:

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

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

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

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

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

**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: GBMc & Associates Wetland Delineation, October 2017.
- 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: 11110207, Lower Arkansas-Maumelle
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 24K, ALEXANDER
- USDA Natural Resources Conservation Service Soil Survey. Citation:
- National wetlands inventory map(s). Cite name:
- State/Local wetland inventory map(s):
- FEMA/FIRM maps: Panel 05125C0240D effective: 6/19/2012
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): GBMc & Associates Wetland Delineation, October 2017; Regulatory ARCVIEW Data 2017
- or  Other (Name & Date): GBMc & Associates Wetland Delineation, October 2017.
- 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 review area for this approved jurisdictional determination consists of the Butler property situated adjacent to Interstate 30 (I-30) between Bryant and Alexander. Approximately 68 acres are located on the north side of I-30, and approximately 102 acres are located south of I-30 along Raymar Road. Terrain along the majority of the site is characterized by gently rolling hills, giving rise to ephemeral drains in many of the topographically low areas. All drainages generally flow in a south to southeast direction into

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tributaries of Crooked Creek. The ephemeral streams (UT-0 ,1, 2, 2A, 3A, 4, 5, 5A, 6, and 6A are jurisdictional and have a significant nexus to a TNW due to the following characteristics: defined banks, scour, disturbance of leaf litter, etc. as well as a defined OHWM; ability to transmit chemicals and nutrients to a TNW; and their ability to provide limited biological habitat that provides some, although limited, nutrients to the biological resources of the Fourche Creek (TNW) and the Arkansas River (TNW), both providing significant habitat for fish and wildlife species. The intermittent streams (UT-3, 7, and 8) are currently serving a variety of functions, such as providing seasonal wildlife habitat and refugia for aquatic life, transporting storm water runoff, and cycling nutrients and organic matter within the watershed. Wetland 1 has a hydrological connection and abuts UT-5A. Wetland 2 has a hydrological connection and abuts UT-4. The wetlands serve as floodwater retention basins, nutrient and pollution (chemical) sinks from flows in UT-5A and UT-4, and provide habitat for small aquatic species such as amphibians, reptiles, and micro- and macroinvertebrates. The wetlands then provide nutrients and biological resources that enhance the aquatic food chain downstream through Crooked Creek, Fourche Creek (TNW) and the Arkansas River (TNW).