



**U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE**

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 8/10/2020
 ORM Number: SWL 2014-00033-2
 Associated JDs: N/A
 Review Area Location¹: State/Territory: Arkansas City: Pine Bluff County/Parish/Borough: Jefferson
 Center Coordinates of Review Area: Latitude 34.660 N Longitude -92.1485 W

II. FINDINGS

A. Summary: Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
- There are “navigable waters of the United States” within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- There are “waters of the United States” within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)²

§ 10 Name	§ 10 Size		§ 10 Criteria	Rationale for § 10 Determination
Arkansas River	1,570	linear feet	RHA Non-tidal water is on the district's Section 10 waters list	The Arkansas River is located on the eastern boundary of the project area. The Arkansas River is listed as a traditionally navigable water with perennial flow and includes that McClellan-Ker Arkansas River Navigation System. The McClellan–Kerr Arkansas River Navigation System is part of the United States inland waterway system originating at the Tulsa Port of Catoosa and running southeast through Oklahoma and Arkansas to the Mississippi River.

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): ³				
(a)(1) Name	(a)(1) Size		(a)(1) Criteria	Rationale for (a)(1) Determination
N/A.	N/A.	N/A.	N/A.	N/A.

¹ Map(s)/figure(s) are attached to the AJD provided to the requestor.

² If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

³ A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
PER-01(Carver Mill Creek)	588	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 15 feet and an average depth of 4 feet. Dominate substrate included Sand/Silt. PER-01 is perennial flowing to INT-09 (Eastwood Bayou Reach B) which flows into the Arkansas River (Section 10 TNW).
INT-01	205	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 4 feet and an average depth of 1 feet. Dominate substrate included Silt. INT-01 flows intermittently approximately 0.83 miles to Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-02	217	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 2 feet and an average depth of 0.5 foot. Dominate substrate included Silt/Clay. INT-02 flows intermittently approximately 0.16 miles to Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-03	403	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 3 feet and an average depth of 1 foot. Dominate substrate included Silt. INT-03 flows intermittently approximately 0.13 miles to Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-04	731	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 5 feet and an average depth of 1 feet. Dominate substrate included Silt. INT-04 flows intermittently approximately 0.01 miles to Wetland D.
INT-05	530	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 6 feet and an average depth of 2 feet. Dominate substrate included Silt/Clay/Gravel. INT-05 flows intermittently approximately 0.46 miles to Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
INT-06	798	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 6 feet and an average depth of 2 feet. Dominate substrate included Sand. INT-06 flows intermittently approximately 0.25 miles to Carver Mill Creek, then flows intermittently into Eastwood Bayou which flows into the Arkansas River.
INT-08 Jackson Creek	3078	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 3 feet and an average depth of 1 foot. Dominate substrate included Silt/Gravel. INT-08 flows intermittently approximately 1.6 miles to Carver Mill Creek, then flows intermittently into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-09 (0) Eastwood Bayou Reach	35	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 5 feet and an average depth of 2 feet. Dominate substrate included Silt/Sand/Gravel. INT-09 flows intermittently into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-09 Eastwood Bayou Reach A(f)	1941	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 5 feet and an average depth of 2 feet. Dominate substrate included Silt/Sand/Gravel. INT-09 flows intermittently to INT-09 (Eastwood Bayou Reach B), then flows into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-09 Eastwood Bayou Reach B(f)	4047	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 8 feet and an average depth of 6 foot. Dominate substrate included Silt/Gravel/Sand/Bedrock. INT-09 flows intermittently to INT-09 (Eastwood Bayou Reach C), then flows into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-09 Eastwood Bayou Reach C(f)	4838	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 10 feet and an average depth of 3 feet. Dominate substrate included Clay/Gravel/Bedrock. INT-10 flows intermittently approximately 7 miles to the Arkansas River (Section 10 TNW).



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
INT-10	363	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 5 feet and an average depth of 1 foot. Dominate substrate included Sand/Gravel/Silt. INT-10 flows intermittently to INT-09 (Eastwood Bayou Reach C), then flows into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-11	6633	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 4 feet and an average depth of 0.5 foot. Dominate substrate included Silt/Gravel/Bedrock. INT-11 flows intermittently to INT-09 (Eastwood Bayou Reach C), then flows into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-12	542	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 4 feet and an average depth of 0.5 foot. Dominate substrate included Silt/Gravel/Bedrock. INT-12 flows intermittently to INT-09 (Eastwood Bayou Reach B), then flows into Eastwood Bayou which flows into the Arkansas River (Section 10 TNW).
INT-13 (Tully Creek)	676	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	Estimated average width of 3 feet and an average depth of 1 foot. Dominate substrate included Silt/Clay/Sand. Tully creek flows intermittently approximately 6.05 miles to the Arkansas River (Section 10 TNW).

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):				
(a)(3) Name	(a)(3) Size		(a)(3) Criteria	Rationale for (a)(3) Determination
N/A.	N/A.	N/A.	N/A.	N/A.

Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination
WET-A	0.25	acre(s)	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year.	Forested; Within the Regulatory Floodway of the Arkansas River (Section 10 TNW).



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Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination
WET-B	0.08	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Forested; Abuts INT-02.
WET-C	0.25	acre(s)	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year.	Forested; Inundated by the 1% Annual Chance Flood Hazard of INT-02.
WET-K	0.19	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Sparsely forested/scrub/shrub with recent tree harvest. Adjacent to INT-08.
WET-L	0.07	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Forested. Adjacent to INT-08.
WET-R	0.04	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-09 (Reach C).
WET-T	0.11	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Scrub/Shrub/Herbaceous. Adjacent to INT-09 (Reach B)
WET-U	0.14	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-09 (Reach B).
WET-X	0.10	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-09 (Reach C).
WET-AA	0.04	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-11.
WET-AD	0.40	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Scrub/Shrub. Adjacent to INT-11.
WET-AF	4.34	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Scrub/Shrub. Adjacent to INT-13.
WET-AG	0.06	acre(s)	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year.	Herbaceous. Inundated by flooding of INT-13.
WET-AH	0.04	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Forested; Adjacent to INT-04.
WET-AQ	3.94	acre(s)	(a)(4) Wetland separated from	Scrub/Shrub. Direct hydrologic surface connection to INT-13.



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Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size		(a)(4) Criteria	Rationale for (a)(4) Determination
			an (a)(1)-(a)(3) water only by an artificial structure allowing a direct hydrologic surface connection between the wetland and the (a)(1)-(a)(3) water, in a typical year.	
WET-AS	0.35	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-06
WET-AT	0.15	acre(s)	(a)(4) Wetland abuts an (a)(1)-(a)(3) water.	Herbaceous. Adjacent to INT-05
WET-AV	0.12	acre(s)	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year.	Forested. Inundated by the 1% Annual Chance Flood Hazard of PER-01 Carver Mill Creek
WET-AW	0.26	acre(s)	(a)(4) Wetland inundated by flooding from an (a)(1)-(a)(3) water in a typical year.	Herbaceous. Inundated by INT-05.

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-01	62	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-02	143	linear feet	(b)(3) Ephemeral feature, including an ephemeral	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.

⁴ Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

⁵ Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			stream, swale, gully, rill, or pool.	
EPHH-03	121	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-04	219	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-05	187	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-06	167	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-07	172	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-08	76	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-09	183	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-11	165	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-12	174	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-13	192	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-14	2898	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-15	922	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-16	1655	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-17	366	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-18	1562	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-19	427	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-20	181	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-21	1312	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-22	229	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-23	2033	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-24	2921	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-25	228	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-26	1072	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-27	541	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-28	72	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-29	3744	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-30	862	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-31	2637	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-32	491	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-33	1424	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-34	232	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-35	269	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-36	71	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-37	73	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-38	857	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-39	139	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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EPHH-40	160	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-41	446	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-42	1124	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-43	1593	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-44	543	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-45	909	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-46	420	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-47	699	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-48	591	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-49	98	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-50	83	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-51	191	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-52	808	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-53	1215	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-54	353	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-55	167	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-56	486	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-57	246	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-58	702	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-59	116	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-60	199	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-61	1391	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-62	468	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-63	470	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-64	1255	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-65	521	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-66	250	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-67	120	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-68	191	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-69	229	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-70	112	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-71	158	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-73	362	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-75	310	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-76	422	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-77	154	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
EPHH-101	1054	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-102	762	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-103	597	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-104	131	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-105	278	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-106	133	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-131	125	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
EPHH-145	336	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Ephemeral feature that exhibits surface water flow only in direct response to storm related precipitation events.
WET-D	0.25	acre(s)	(b)(1) Non-adjacent wetland.	Sparsely Forested with recent tree harvest that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-E	0.67	acre(s)	(b)(1) Non-adjacent wetland.	Forested that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
				connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-F	0.35	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-G	0.74	acre(s)	(b)(1) Non-adjacent wetland.	Scrub/Shrub/ Sparsely Forested that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-H	0.24	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous (some tree/shrub cover) that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-I	0.08	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous (some tree/shrub cover) that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-J	0.05	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-M	0.17	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-N	0.1	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-O	0.21	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-P	0.24	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-Q	0.03	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-S	0.04	acre(s)	(b)(1) Non-adjacent wetland.	Sparsely Forested/Scrub/Shrub/ with recent tree harvest that does not abut or otherwise connect



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
				to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-V	0.19	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-W	0.2	acre(s)	(b)(1) Non-adjacent wetland.	Forested that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-Y	1.8	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-Z	0.21	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AB	0.95	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AC	0.07	acre(s)	(b)(1) Non-adjacent wetland.	Scrub/Shrub that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AE	0.23	acre(s)	(b)(1) Non-adjacent wetland.	Scrub/Shrub that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AK	0.08	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AO	0.02	acre(s)	(b)(1) Non-adjacent wetland.	Scrub/Shrub that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AP	0.13	acre(s)	(b)(1) Non-adjacent wetland.	Forested that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.
WET-AR	0.01	acre(s)	(b)(1) Non-adjacent wetland.	Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
WET-AU	0.14	acre(s)	(b)(1) Non-adjacent wetland.
			Herbaceous that does not abut or otherwise connect to a (a)(2) tributary. This wetland is only connected to a (b)(3) ephemeral feature which is categorically excluded under the NWPR.

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: [2020-06-22 FINAL ESP LTR USACE Permit App Update per WOTUS Step 2.pdf \(June 22, 2020\)](#); [FTN Delineation of Potential Section 404 Features \(December 18, 2018\)](#)

This information is sufficient for purposes of this AJD.

Rationale: [N/A](#)

Data sheets prepared by the Corps: [Title\(s\) and/or date\(s\)](#).

Photographs: [Aerial and Other: Site Photos 1-8, Delineation Report, FTN; Google Earth Imagery, Digiglobe Imagery](#)

Corps site visit(s) conducted on: [May 29, 2020](#)

Previous Jurisdictional Determinations (AJDs or PJDs): [ORM Number\(s\) and date\(s\)](#).

Antecedent Precipitation Tool: [provide detailed discussion in Section III.B.](#)

USDA NRCS Soil Survey: [SCS Soil Survey of Washington County, Arkansas, 1969; NRCS Web Soil Survey 3.2, 2018.](#)

USFWS NWI maps: [USFWS National Wetlands Inventory – Wetlands Mapper](#)

USGS topographic maps: [USGS Redfield-AR, Wright-AR, Hardin-AR, White Hall-AR](#)

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	USGS The National Map – 3DEP
USDA Sources	NRCS Web Soil Survey; NRCS National List of Hydric Soils (all states; February 2011)
NOAA Sources	NOAA Daily Global Historical Climatology
USACE Sources	USACE ArcMAP
State/Local/Tribal Sources	N/A.
Other Sources	DHS-FEMA NFHL FIRMetete; USACE 1987 manual and <i>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0)</i> (USACE Engineer Research and Development Center 2012).

B. Typical year assessment(s): [Wetter than Normal Conditions; SWL 2018-00403 APT Report for FTN field delineation date of December 18, 2018.](#)

C. Additional comments to support AJD: [This jurisdictional determination is specific to an ~1,332-acre parcel of land \(main site of 1,165 acres, road/pipeline ROW of 132 acres, and dock area of 35 acres\) located approximately 5 miles southeast of Redfield, Arkansas, and just west and north of the National Center for Toxicological Research and the Pine Bluff Arsenal. The project area is within Jefferson County,](#)



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Arkansas, east of Highway 365 (with a small ~0.89 acre section west of Highway 365 in the southwest corner of the project area), west and north of the Pine Bluff Arsenal, and south of Redfield, Arkansas. The area of the delineation is mapped on US Geological Survey (USGS) topographic quadrangles Redfield, AR; Hardin, AR; White Hall, AR; and Wright, AR (7.5-minute series). The legal description of the area is part of Sections 7, 8, 9, and 10, Township 4 South, Range 10 West; and part of Sections 12, 13, 14, and 24, Township 4 South, Range 11 West. The coordinates of the approximate center of the main project site (exclusive of road and dock area) are 34.3660°N, -92.1485°W. The coordinates of the approximate center of the dock area are 34.3774°N, -92.0706°W. The project area is located in the Lower Arkansas-Maumelle watershed ([HUC] 11110207), a watershed of approximately 1126.78 square miles. The review area contains 82 non-jurisdictional ephemeral streams and 25 non-jurisdictional wetlands. The review area contains one RHA Non-tidal water on the district's Section 10 waters list (Arkansas River; ~1,570 linear feet), one perennial channel reach (~588 linear feet), 15 intermittent channel reaches (~25,037 linear feet) and approximately 19 jurisdictional wetlands (totaling ~10.92 acres). Portions of the project area are located within a FEMA mapped floodplain and floodway.

PREPARED BY:

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