



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): 23-NOV-2020

ORM Number: LRL-2020-00872-MAD

Associated JDs: N/A or ORM numbers and identifiers N/A

Review Area Location¹:

State/Territory: KY City: County/Parish/Borough: Green County

Center Coordinates of Review Area: Latitude 37.166436 Longitude -85.575899

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
N/A	N/A	N/A	N/A

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

Tributaries ((a)(2) waters):

(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
LRL-2020-00872, UT-A	9412 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	UT-A is an intermittent unnamed tributary of Greasy Creek and flows southwest through the Survey Area and into Little Barren River, then into Green River, an (a) (1) water. UT-A and 11 of its tributaries drain the majority of the Survey Area. UT-A was observed to have standing water in during multiple site visits, and has morphology typical of intermittent streams in the region including continuous bed and bank, presence of substrate sorting, width and depth of ordinary high water mark, and the amount of flowing water observed during the site visit. The amount of precipitation immediately before conducting the delineation, and the

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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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			wetter than normal conditions as indicated by the Antecedent Precipitation tool(ATP) factored into the decision of considering the stream intermittent instead of perennial.
LRL-2020-00872, UT-A03	461 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	This stream is an unnamed tributary of UT-A and drains the northwestern section of the Survey Area. The average flow depth during the March site visit was approximately 0.5 inches, with a maximum pool depth of approximately 3.0 inches. There was less than 0.25 inches of precipitation the 24-hours prior to this delineation. The stream exhibited morphology typical of intermittent stream in the region including continuous bed and bank, presence of substrate sorting, width and depth of ordinary high water mark, and the amount of flowing water observed during the site visit..
LRL-2020-00872, UT-B	2425 feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	UT-B is an intermittent unnamed tributary to Greasy Creek. The average flow depth during the March site visit was approximately 3.0 inches, with a maximum pool depth of approximately 8.0 inches. The stream exhibited morphology typical of intermittent stream in the region including continuous bed and bank, presence of substrate sorting, and width and depth of ordinary high water mark. The delineation of UT-B occurring in March, which is usually when the groundwater table is the highest, and the amount of precipitation immediately before conducting the delineation factored into the decision of considering the stream intermittent instead of perennial.

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

Adjacent wetlands ((a)(4) waters):

(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
LRL-2020-00872, Pond-3	0.68 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	Pond-3 is a PUB3Hh pond. This impounded feature occurs on a section of intermittent stream (UT-A) in the northeast section of the project area. Pond-3 receives hydrology from a stream (UT-A), a high-water table, and overland sheet flow from surrounding agricultural fields and wooded hillsides. The feature is an impoundment of UT-A, an (a)(2) water.
LRL-2020-00872, Pond-9	0.21 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	Pond-9 is a PUB3Hh pond with an emergent wetland attached. The resource receives hydrology from a high-water table and overland sheet flow. The wetland abuts UT-B, an (a)(3) jurisdictional water.
LRL-2020-00872, WL-05	1.16 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-05 is a PUB3Hh pond within a larger PFO1E. W-05 receives hydrology from overland sheet flow from the surrounding agricultural field and a high water table. WL-05 directly abuts UT-A, an (a)(2) water.

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LRL-2020-00872, WL-06	0.03 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-06 is a PFO1E. It was not indicated on the NWI map. WL-06 receives hydrology from a high water table and overland sheet flow from surrounding wooded slopes. WL-06 directly abuts UT-A, an (a)(2) water.
LRL-2020-00872, WL-07	0.57 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-07 is a PFO1E extending into a PEM1 across an overhead transmission line right-of-way. It was not indicated on the NWI map. WL-07 directly abuts UT-A, an (a)(2) water.
LRL-2020-00872, WL-08	0.08 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-08 is a PFO1E located within the floodplain of UT-A. This wetland was not indicated on the NWI map. WL-08 directly abut UT- A, an (a)(2) water.
LRL-2020-00872, WL-10	0.09 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-10 wetland is a seasonally flooded/saturated, broad-leaved deciduous, palustrine scrub shrub wetland (PSS1B) located within the floodplain of UT-A. The wetland directly abuts UT-A, an (a) (2) water.
LRL-2020-00872, WL-11	0.98 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-11 is a PFO1E. This wetland was not indicated on the NWI map. WL-11 receives hydrology from UT-A and overland sheet flow from surrounding agricultural fields and forested slopes. The wetland directly abuts UT-A, an (a) (2) water.
LRL-2020-00872, WL-13	0.1 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-13 is a PFO1E wetland located near the east-center of the Survey Area. This wetland was not indicated on the NWI map. WL-13 receives hydrology from UT-A, a high water table, and overland sheet flow from the surrounding agricultural fields. The wetland directly abuts UT-A, an (a) (2) water.
LRL-2020-00872, WL-18	0.06 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-18 is a PFO1E wetland located within the floodplain of UT-A03, in the south-center of the Survey Area. This wetland was not indicated on the NWI map. WL-18 receives hydrology from overland flooding from UT-A03 at flood stages and surrounding agricultural fields. The wetland directly abuts UT-A03, an (a)(2) water.
LRL-2020-00872, WL-23	0.03 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-23 is a PFO1E wetland located within the floodplain of UT-B, in the south-center of the Survey Area. This wetland was not indicated on the NWI map. WL-23 receives hydrology from a high water table, and overland flooding from UT-B at flood stages. The wetland directly abuts UT-B, an (a) (2) water.
LRL-2020-00872, WL-24	0.58 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-24 is a PFO1E wetland located in the floodplain of UT-B in the eastern portion of the Survey Area. WL-24 receives hydrology from overland sheet flow from the surrounding agricultural fields and forested slopes, and a high water table. The wetland directly abuts UT-B, an (a) (2) water.
LRL-2020-00872, WL-25	0.23 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	WL-25 is a PFO1E wetland located in a floodplain in the eastern portion of the Survey Area. This wetland was not indicated on the NWI map. WL-25 receives hydrology from a high water table and overland sheet flow from the surrounding agricultural fields and forested slopes. The wetland continues offsite and directly abuts UT-B, an (a)(2) water.

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D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12))⁴:

Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
LRL-2020-00872, Pond-1	0.28 acres	(b)(1) Non-adjacent wetland	The impounded is permanently flooded, palustrine unconsolidated mud bottom (PUB3Hh) pond. This resource was not indicated on the NWI map. Pond-1 receives hydrology from a high-water table and overland sheet flow from surrounding agricultural fields. Pond-1 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-2	0.09 acres	(b)(1) Non-adjacent wetland	The resource was not indicated on the NWI map. Pond-2 is permanently flooded and receives hydrology from a high water table and overland sheet flow from surrounds agricultural fields. Pond-2 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-4	1.34 acres	(b)(1) Non-adjacent wetland	Pond-4 is PUB3Hh pond with a PEM fringe. This feature receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields. Pond-4 is considered isolated, because it does not exhibit a significant nexus. Pond-4 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-5	0.1 acres	(b)(1) Non-adjacent wetland	Pond-5 PUB3Hh pond. This wetland was not indicated on the NWI map. Pond-5 receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields. Pond-5 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-6	0.23 acres	(b)(1) Non-adjacent wetland	Pond-6 is a PUB3Hh pond. This wetland was not indicated on the NWI map. Pond-6 receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields. Pond-6 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-7	0.24 acres	(b)(1) Non-adjacent wetland	Pond-7 is a PUB3Hh pond. And is indicated on the NWI map as a freshwater pond. The resource receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields. The hydrology from this wetland drains into a culvert that runs under Jim Meadows Road and into a sinkhole outside of the Survey Area. Pond-7 is isolated in the landscape and does not but nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, Pond-8	0.26 acres	(b)(1) Non-adjacent wetland	Pond-8 is a PUB3Hh pond. This wetland was not indicated on the NWI map. Pond-8 receives hydrology from a high water table and overland sheet flow from

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			surrounding agricultural fields. Pond-8 is isolated in the landscape and does not abut nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, UT-A01	828 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	The stream is an unnamed tributary of UT-A. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A02	569 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	The stream is an unnamed tributary of UT-A. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A03a	236 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT-A03. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A03b	374 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This unnamed tributary of UT-A03 is an ephemeral stream that drains adjacent PFO WL-30 in the northwestern section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A04	1100 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT-A and drains part of the northeastern section of the Survey Area. The stream also received flow from WL-09. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A05	632 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT-A. that drains a forested wetland, WL-04, in the northeastern section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A05-ISO	915 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream drains a part of the northeastern section of the Survey Area. This stream flows into sinkhole up the valley from UT-A05. The stream has a defined bed and bank and an OHWM and morphology typical of ephemeral stream in the region. Additionally, no hydrologic connection to downstream waters were observed.
LRL-2020-00872, UT-A05a-ISO	351 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream drains a part of the northeastern section of the Survey Area. This stream flows into UT-A05-ISO, a (b) (3) excluded feature. The stream has a defined bed and bank and an OHWM and morphology typical of ephemeral stream in the region.

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LRL-2020-00872, UT-A06	1526 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT-A that drains part of the northeastern section of the Survey Area including WL-02. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A07	495 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT- A that drains WL-02 in the northcentral section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A08	634 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT- A that drains WL-02 in the northcentral section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-A10	93 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT-A which transfers hydrology from a forested wetland (WL-5) to UT-A in the northcentral section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-C	1083 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream drains a forested hill slopes and overland sheet flow from agricultural fields in the northwestern portion of the Survey Area. This stream flows into WL-28, which is a (b) (1) excluded feature. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872, UT-C01	189 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream drains in the northwestern portion of the survey area. This stream drains overland sheet flow from agricultural fields to WL-28, which is a (b) (1) excluded feature. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits which is defined as isolated.
LRL-2020-00872, UT-ISO-01	524 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream drains a part of the northcentral section of the Survey Area. This stream flows into sinkhole. . The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits. No outlet of consolidated flow was observed downs gradient of the sinkhole.
LRL-2020-00872, WL-01	0.41 acres	(b)(1) Non-adjacent wetland	WL-01 is a seasonally flooded/saturated, broad-leaved deciduous, palustrine forested wetland (PFO1E). This wetland was not indicated on the NWI map. WL-01 receives hydrology from a high-water table and overland sheet flow from surrounding wooded slopes

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LRL-2020-00872, WL-02	2.89 acres	(b)(1) Non-adjacent wetland	WL-02 is a PFO1E. It was not indicated on the NWI map. WL-02 receives hydrology from a high-water table and overland sheet flow from surrounding wooded slopes and agricultural fields. Hydrology from the resource flow into UT-A06, UT-A07, and UT-A08, all (b)(3) exclude ephemeral streams. WL-02 does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-03	0.09 acres	(b)(1) Non-adjacent wetland	WL-03 is a seasonally saturated persistent palustrine emergent wetland (PEM1). This wetland was not indicated on the NWI map. WL-03 receives hydrology from UT-A06 and overland sheet flow from surrounding woodlands and an herbaceous ROW clearing. WL-03 connects downstream to UT-A through UT-A06, a (b)(3) excluded feature.
LRL-2020-00872, WL-04	0.87 acres	(b)(1) Non-adjacent wetland	WL-04 is a PUB3Hh pond with a PFO1E fringe. WL-04 receives hydrology from overland sheet flow from the surrounding agricultural field. WL-04 does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-09	0.12 acres	(b)(1) Non-adjacent wetland	WL-09 is a PFO1E located within a swale in the north-central portion of the Survey Area. This wetland was not indicated on the NWI map. WL-09 receives hydrology from a high-water table and overland sheet flow from surrounding agricultural fields and forested slopes. WL-09 does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-12	0.06 acres	(b)(1) Non-adjacent wetland	WL-12 is a PEM1 wetland This wetland was not indicated on the NWI map. WL-12 receives hydrology from an UT-A-Isolated-01, a (b)(3) excluded ephemeral stream, and overland sheet flow from surrounding wooded slopes and agricultural fields. WL-12 does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-14	7.88 acres	(b)(1) Non-adjacent wetland	WL-14 is a PFO1E wetland. This wetland was not indicated on the NWI map. WL-14 receives hydrology from a high water table and overland sheet flow from the surrounding agricultural fields and forested slopes. Hydrology from the resource flow into UT-A03a, an (b)(3) exclude ephemeral stream. WL-14 is isolated in the landscape and does not abut nor receive flooding from any resources is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-15	0.47 acres	(b)(1) Non-adjacent wetland	WL-15 is a PFO1E wetland located near the western edge of the Survey Area. This wetland was not

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			indicated on the NWI map. WL-15 receives hydrology a high water table and overland sheet flow from the surrounding agricultural fields. WL-12 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-17	0.37 acres	(b)(1) Non-adjacent wetland	WL-17 is a PEM1 wetland located within a sinkhole in the western part of the Survey Area. This wetland was not indicated on the NWI map. WL-17 receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields. WL-17 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-19	0.05 acres	(b)(1) Non-adjacent wetland	WL-19 is a PEM wetland located near the southern extent of the Survey Area. It was not indicated on the NWI map. It receives hydrology from overland sheet flow from the surrounding agricultural fields. WL-19 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-20	0.13 acres	(b)(1) Non-adjacent wetland	WL-20 is a PEM wetland located near the southern extent of the Survey Area. It was not indicated on the NWI map. It receives hydrology from overland sheet flow from the surrounding agricultural fields. WL-20 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-21	0.14 acres	(b)(1) Non-adjacent wetland	WL-21 is a PEM1/PSS wetland located near the southern extent of the Survey Area. WL-21 appears to be within an area previously used as a pond. This wetland was not indicated on the NWI map. WL-21 receives hydrology from overland sheet flow from the surrounding agricultural fields. WL-21 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-22	8.42 acres	(b)(1) Non-adjacent wetland	WL-22 is a PUB3Hh pond within a PFO1E wetland. It is located in the southeast of the Survey Area. WL-22 receives hydrology from a high water table and overland sheet flow from surrounding agricultural fields and forest. WL-22 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872, WL-26	0.37 acres	(b)(1) Non-adjacent wetland	WL-26 is a PFO1E wetland located in a plain in the eastern portion of the Survey Area. This wetland was not indicated on the NWI map. WL-26 receives hydrology from a high water table and overland sheet flow from the surrounding agricultural fields and forested slopes. WL-26 is isolated in the landscape and does not abut nor receive flooding from any

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			jurisdictional resources and is not adjacent to any jurisdictional resources
LRL-2020-00872, WL-27	0.04 acres	(b)(1) Non-adjacent wetland	WL-27 is a PEM located in the northern most tip of the Survey Area along at the toe of a roadbed. This wetland was not indicated on the NWI map. WL-27 receives hydrology from an adjacent PUBHh wetland and overland sheet flow from surrounding agricultural fields. WL-27 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources
LRL-2020-00872, WL-29	0.63 acres	(b)(1) Non-adjacent wetland	WL-29 is a PSS located in the northeastern portion of the Survey Area. This wetland was not indicated on the NWI map. WL-29 receives hydrology from UT-A03b, a (b)(3) excluded ephemeral stream, and overland sheet flow from surrounding agricultural fields and forested slopes. WL-27 is isolated in the landscape from downstream resources and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources
LRL-2020-00872, WL-30	1.08 acres	(b)(1) Non-adjacent wetland	WL-30 is a PFO located in the northwestern portion of the Survey Area. This wetland was not indicated on the NWI map. WL-30 receives hydrology from overland sheet flow from surround forested slopes. WL-30 is drained by UT-03b, a (b) (3) excluded water. UT-03b drains to WL-29. Both WL-29 and WL-30 are isolated in the landscape and do not abut nor receive flooding from any jurisdictional resources and are not adjacent to any jurisdictional resources
LRL-2020-00872,UT-A09	251 feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	This stream is an unnamed tributary of UT- A that drains WL-02 in the northcentral section of the Survey Area. The stream is a first order stream, has a morphology typical of ephemeral stream in the region, and did not exhibit flow more than in response to precipitation on multiple site visits.
LRL-2020-00872,WL-16	0.3 acres	(b)(1) Non-adjacent wetland	WL-16 is a wetland matrix with 0.25-acres of PFO1E wetland and a 0.05-acres of PUB3Hh pond occurring within the Survey Area. WL-16 continues outside of the Survey Area. This wetland was not indicated on the NWI map. It is located within a forested terrace in the north-central part of the Survey Area. WL-16 receives hydrology from overland sheet flow from the surrounding agricultural fields and roads, and a high water table. WL-16 is isolated in the landscape and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources.
LRL-2020-00872,WL-28	0.27 acres	(b)(1) Non-adjacent wetland	WL-28 is comprised of a PEM and PUB type wetland located in the northwestern portion of the Survey Area. This wetland was not indicated on the NWI map. WL-28 receives hydrology from an UT-C01, a (b)(3) excluded ephemeral stream feeding the pond and overland sheet flow from surrounding agricultural fields. WL-28 is

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			isolated in the landscape from downstream resources and does not abut nor receive flooding from any jurisdictional resources and is not adjacent to any jurisdictional resources
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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: *Approved Jurisdictional Determination Request prepared by Copperhead Environmental Consulting, Inc. dated October 7, 2020 for the Horseshoe Bend Solar Energy Project. Additional Information Response prepared by Copperhead Environmental Consulting, Inc. dated January 17, 2021.* 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) Copperhead Environmental Consulting, Inc. site photos no. 1-77 dated 3/3-11/2020 and 7/31/2020. Google Earth aerials dated 6/7/2018, 3/25/2014, 3/14/1998, 12/30/1985.*
- Corps Site visit(s) conducted on:
- 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: Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <http://websoilsurvey.sc.egov.usda.gov/>. Accessed 11/20/2020
- USFWS NWI maps: National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Available online at <http://www.fws.gov/wetlands/>. Accessed 11/20/2020
- USGS topographic maps: 24K Exie, Kentucky

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

B. Typical year assessment(s): The Antecedent Precipitation Tool was utilized for the March 11 and July 31 date of the site assessment. The data shows that the March site visit was during wetter than

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normal conditions in the wet season, and the July assessment date was during wetter than normal conditions in the dry season. Both dates are considered wetter than typical year conditions.

C. Additional comments to support AJD: N/A.

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