## 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): 3/10/2023
- B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Fort Worth District, SWF-2022-00482 Stoneridge Solar
- C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Texas County: Milam City:

 Center coordinates of site (lat/long in degree decimal format): Lat. 30.549625 N, Long. -97.105120 W. Universal Transverse Mercator:

Name of nearest waterbody: Walleye Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Somerville Lake** Name of watershed or Hydrologic Unit Code (HUC): **1207010201** 

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different JD form.

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

- Office (Desk) Determination. Date:
- Field Determination. Date(s): 1/11/2023

## 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.

## 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 (see tables included in consultant report): Non-wetland waters: 17,302 linear feet and 2.44 acres total for open water ponds Wetlands: 0.95 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual and OHWM indicators. 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 not be jurisdictional. Explain:

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

 $<sup>^{2}</sup>$  For purposes of this form, an RPW is defined as a <u>tributary</u> that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

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

#### SECTION III: CWA ANALYSIS

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

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

- TNW Identify TNW: Summarize rationale supporting determination: Wetland adjacent to TNW
- 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, 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 tributaries that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: -- acres. Drainage area: 1553 acres Average annual rainfall: 36 inches

Average annual snowfall: -- inches

### (ii) Physical Characteristics:

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

Tributary flows directly into TNW.

Tributaries flow through **4 to 5** other tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **30** aerial (straight) miles from TNW (Somerville Lake).

Project waters are 8 or less aerial (straight) miles from RPW (at least Middle Yegua Ck.).

Project waters cross or serve as state boundaries. No Explain:

Identify flow route to TNW<sup>5</sup>: Unnamed tribs to Walleye Creek to Cross Creek to Middle Yegua Creek to Yegua Creek to Somerville Lake (TNW) to Brazos River Section 10 (TNW).

Tributary stream order, if known: 1<sup>st</sup> for initial tribs, 2<sup>nd</sup> for larger tribs, and 3<sup>rd</sup> order for Walleye Creek.

(b) <u>General Tributary Characteristics (check all that apply):</u>

Tributary is:

Natural. Explain: Channels vary between relatively undisturbed forested areas as long-term stabilized pasture.

Artificial (man-made). Explain:

Manipulated (man-altered). Explain: Impoundments and realignments have occurred in some tributaries and grazing occurs as well as historic forest clearing.

Rerouted stream 2 (RS-02) is a spillway for Pond 18, which is an impounded portion of Walleye Creek. This stream is a grassy swale spillway for Pond 18 that rarely flows but may convey some flow during wet periods if/when Pond 18 overflows. RS-02 has existing fill and is

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

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

situated 10-12 feet above the OHWM of stream 9a (Walleye Creek). Low water crossings 2 and 3 (LWC-02 and LWC-03) occur along ranch access roads, where the historic channel of Walleye Creek (and a tributary of Walleye Creek) have been partially filled.

Rerouted stream 3 (RS-03) is a spillway ditch for Pond 9, which is an impoundment of a tributary of Walleye Creek. RS-03 has been highly modified with existing fill, and is situated approximately 8-10 feet above the OHWM of S-11 and S-12. This spillway conveys some flow downstream during wet periods when Pond 9 overflows.

Rerouted stream 1 (RS-01) is a spillway for Pond 7, which is an impounded portion of a tributary to Walleye Creek. This stream is a discontinuous and eroded spillway for Pond 7 that conveys some flow during wet periods when Pond 7 overflows. Low water crossing 1 (LWC-01) is along an existing ranch access road, where the historic channel of a tributary of Walleye Creek has been partially filled.

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

Average width: Varies from 2 to 12 feet in width. S-09a: 10 feet, S-09b: 10 feet, S-11: 7 feet, RS-02: 10 feet, LWC-02: 10 feet, LWC-03: 7 feet, S-06: 3 feet, S-07: 2 feet, S-08: 3 feet, S-11: 7 feet, S-12: 8 feet, RS-03: 10 feet, S-01: 6 feet, S-02: 2 feet, S-03: 12 feet, S-04: 3 feet, S-05: 2 feet, RS-01: 12 feet, LWC-01: 12 feet Average depth: 0.5 to 2 feet

Average depth: **0.5 to 2** feet Average side slopes: **2:1** 

Primary tributary substrate composition (check all that apply):

⊠ Silts	⊠ Sands	Concrete
Cobbles	🖾 Gravel	Muck

Bedrock Vegetation. Type/% cover:

○ Other. Explain: Sandy loam to sandy substrate with scattered gravel, some leaf litter and woody debris

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

Walleye Creek (S-09a and S-09b) and tributary S-11 have gently to moderately sloping, naturally formed banks. Rerouted stream RS-02 is a grassy swale functioning as a spillway for Pond 18. Low water crossings LWC-02 and 03 are on ranch access roads in historic stream channels; existing fill and driving activity has disturbed the streams in these areas

Tributaries S-06, S-07, S-08, S-11, and S-12 have gently to moderately sloping, naturally formed banks. Rerouted stream RS-03 is a highly modified part of a tributary of Walleye Creek, situated between an impoundment (Pond 9) and ephemeral stream segment S-12 and functioning as a spillway for Pond 9. Banks of RS-03 range from gently sloping to steep/highly eroded

Tributaries S-01, S-02, S-03, S-04, and S-05 have gently to moderately sloping, naturally formed banks. Rerouted stream RS-01 is a discontinuous and eroded channel functioning as a spillway for Pond 7. Low water crossing 1 is on a ranch access road in a historic stream channel; existing fill and driving activity has disturbed the stream in this area

Presence of run/riffle/pool complexes. N/A Explain:

Tributary geometry: Meandering for all streams. Some short reaches are straight due to anthropogenic effects.

Tributary gradient (approximate average slope): <1 %

(c)  $\underline{Flow}$ :

Tributary provides for: Ephemeral for all features except the lower reach of Walleye Creek which is intermittent

Estimate average number of flow events in review area/year: 11-20 based on APT output considering events of 1 inch or greater.

Describe flow regime: All ephemeral streams are driven by precipitation events. The lower reach of Walleye Creek has a larger drainage area as well as greater volume and longer duration of flow than the ephemeral tributaries in the project area. All streams are in the upper portions of the watershed.

Field observations revale all do not flow for very long after rainfall. While Walleye Creek classifies as intermittent it would not qualify as an RPW.

Other information on duration and volume:

Surface flow is: Discrete and confined. Characteristics: Due to the sandy soils and gently sloping terrain, parts of these drainages may exhibit both discrete and confined surface flow. The intermittent portion of Walleye Creek (S-09b) has more confined surface flow in comparison to the ephemeral drainages in the review area.

Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply):  $\boxtimes$  Bed and banks OHWM<sup>6</sup> (check all indicators that apply):  $\Box$  clear, natural line impressed on the bank  $\boxtimes$  the presence of litter and debris Changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent is sediment sorting leaf litter disturbed or washed away  $\boxtimes$  scour Sediment deposition multiple observed or predicted flow events abrupt change in plant community water staining other (list): Discontinuous OHWM.<sup>7</sup> Explain: Low water crossings and some rerouted streams or recently disturbed channel reaches in the review area have been altered that do not exhibit a continuous OHWM. If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; fine shell/debris deposits (foreshore) physical markings; physical markings/characteristics vegetation lines/changes in vegetation types. tidal gauges other (list): (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Murky, pooled water present in some streams after 5-inch rain event. Slowly flowing water present in some areas during January 11, 2023 site visit. Streams dry during most other consultant field visits.

Identify specific pollutants, if known: Due to cattle presence in watershed and stream reaches, E. coli expected to occur.

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

**Riparian corridor.** Characteristics (type, average width): **Only applies to stream S-09a/b, Walleye Creek. Bottomland deciduous woodlands adjacent to stream, with dominant tree species including American elm** (Ulmus americana), green ash (Fraxinus pennsylvanica), and deciduous holly (Ilex decidua). Some disturbance has occurred within parts of the riparian corridor. Ephemeral streams in the review area did not have apparent riparian corridors.

Wetland fringe. Characteristics:

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Ephemeral streams and associated riparian zones provide water sourcese, resting and feeding habitat for neotropical migrants as well as terrestrial wildlife.

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

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

## (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u>
  - Properties:

Wetland size: 0.95 acres

Wetland type. Palustrine emergent wetlands. Explain: Wetlands (W-02, 03 and 09) are associated with 2 ponds (P-04 and P-18) that were built on channel of a tributary of as well as on Walleye Creek.

Wetland quality. Explain: Although no conditional or functional assessment was conducted, given the wetland type, vegetation community, and geomorphic setting, it is anticipated that quality would be average.

Project wetlands cross or serve as state boundaries. No Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: **Bi-directionally ephemeral**. Explain: The wetlands are associated with ephemeral features and driven primarily but channel flows and pond storage. Precipitation events that fill the ponds allow for hydrology to support the wetlands. As evaporation and runoff occurs and pond levels drop, wetland areas will retain and release water back to the pond/creek.

Surface flow is: Ephemeral

Characteristics: See above.

Subsurface flow: Pick List. Explain findings:

Dye (or other) test performed:

## (c) <u>Wetland Adjacency Determination with Non-TNW:</u>

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain:

Separated by berm/barrier. Explain:

## (d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **30** aerial (straight) miles from TNW (**Somerville Lake**). Flow is from: **Bidirectional but and contributes indirectly to TNW**. Estimate approximate location of wetland as within the **1-year** 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: Water in the pond that feeds into the wetlands is likely turbid due to this being a precipitation driven system. When water leaves wetland areas to pond and stream it is likely clear due standing time and adherence to vegetation.

Identify specific pollutants, if known: E. coli likley due to presence of cattle.

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

Riparian buffer. Characteristics (type, average width):

Vegetation type/percent cover. Herbaceous and forested Explain: Wetlands 02 and 03 are dominated by forbs and grasses. Dominant herbaceous species observed include Persicaria species (P. hydropiperoides, P. lapathifloia), gaping panic grass (Steinchisma hians), and large barnyard grass (Echinochloa crus-galli). Wetland 03 is forested, with black willow (Salix nigra), eastern cottonwood (Populus deltoides), and American elm (Ulmus americana) in the canopy.

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Wetlands are well documented in providing habitat for various aquatic and terrestrial species, including vertebrates and non-vertebrates.

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

All wetland(s) being considered in the cumulative analysis: 3

Approximately 0.95 acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)		Size (in acres)			
W-02	Y	0.09			
W-03	Y	0.09			
W-09	Y	0.77			

Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed: These wetland features provide habitat and food sources for a variety of plants and wildlife including invertebrates, amphibians, reptiles, fish, birds, and mammals. The wetland also provides flood and erosion control and traps/filters sediments, contaminants and nutrients, thus improving water quality in the area.

#### 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:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or 2. 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: The flow from Walleye Creek (S-09a and S-09b) and the tributaries of Walleye Creek (segments S-11 (lower part), LWC-02, LWC-03, RS-02), as well as the impounded portion of Walleye Creek (P-18) and abutting wetland (W-09), in the review area contribute flow to Middle Yegua Creek (a RPW), then to Yegua Creek, and ultimately the Brazos River (a TNW). The water features in the review area therefore share an indirect hydrologic connection with a TNW. The effects of streams and wetlands are cumulative within a watershed and can be evaluated as such when applying the significant nexus standard (U.S. EPA and DA 2022). There are three other similarly situated ephemeral tributaries of Walleye Creek (similar to S-11) in this uppermost part of the Walleye Creek watershed (upstream of the review area), and there are many additional tributaries of Walleye Creek downstream of the review area. Upstream of where Walleye Creek contributes to Middle Yegua Creek, there are approximately 14 similarly situated tributaries to Middle Yegua Creek, and there are many more as you continue downstream in the Middle Yegua Creek watershed. Although ephemeral and intermittent streams generally flow less often than perennial streams, studies have shown that they provide the same hydrological and ecological functions through their movement of water, nutrients and sediment through the watershed (Levick et al. 2008). Biological functions of these streams and associated wetlands may include providing cover, nesting, movement corridors, and food sources for a variety of wildlife including invertebrates, amphibians, reptiles, birds, and mammals. These functions provide an indirect biological connection between the streams and wetlands in the review area, and the downstream TNW. The wetlands and streams also recycle nutrients and filter contaminants, thus improving downstream water quality and providing an indirect chemical connection with the downstream TNW. Additionally, the streams and wetlands in the project area provide stream energy

dissipation/floodwater storage during high-water flows which reduces erosion, and these features trap some sediments which prevents excessive sediment loading downstream. These functions provide an indirect physical connection to the downstream TNW.

The flow from the tributaries of Walleye Creek in the review area (segments S-6, S-7, S-8, S-11 (upper part), S-12, and RS-03), as well as the impoundment (P-9), contributes to Middle Yegua Creek (a RPW), then to Yegua Creek, and ultimately the Brazos River (a TNW). The water features in the review area therefore share an indirect hydrologic connection with a TNW. The effects of streams and wetlands are cumulative within a watershed and can be evaluated as such when applying the significant nexus standard (U.S. EPA and DA 2022). There is one other similarly situated ephemeral tributary of Walleye Creek in this uppermost part of the Walleye Creek watershed, and there are many additional tributaries of Walleye Creek downstream of the review area. Although ephemeral and intermittent streams generally flow less often than perennial streams, studies have shown that they provide the same hydrological and ecological functions through their movement of water, nutrients and sediment through the watershed (Levick et al. 2008). Biological functions of these streams and impoundment may include providing cover, nesting, movement corridors, and food sources for a variety of wildlife including invertebrates, amphibians, reptiles, birds, and mammals. These functions provide an indirect biological connection between the streams in the review area and the downstream TNW. The streams and impoundment also recycle nutrients and filter contaminants, thus improving downstream water quality and providing an indirect chemical connection with the downstream TNW. Additionally, the streams and impoundment in the project area provide stream energy dissipation/floodwater storage during high-water flows which reduces erosion, and these features trap some sediments which prevents excessive sediment loading downstream. These functions provide an indirect physical connection to the downstream TNW.

The flow from the tributaries of Walleye Creek in the review area (segments S-01, S-02, S-03, S-04, S-05, RS-01, LWC-01), as well as the impoundment (P-07) and abutting wetlands (W-02 and 03), contributes to Middle Yegua Creek (a RPW), then to Yegua Creek, and ultimately the Brazos River (a TNW). The water features in the review area therefore share an indirect hydrologic connection with a TNW. The effects of streams and wetlands are cumulative within a watershed and can be evaluated as such when applying the significant nexus standard (U.S. EPA and DA 2022). There are three other similarly situated ephemeral tributaries of Walleve Creek in this uppermost part of the Walleye Creek watershed, and there are many additional tributaries of Walleye Creek downstream of the project area. Although ephemeral and intermittent streams generally flow less often than perennial streams, studies have shown that they provide the same hydrological and ecological functions through their movement of water, nutrients and sediment through the watershed (Levick et al. 2008). Biological functions of these streams and associated wetlands may include providing cover, nesting, movement corridors, and food sources for a variety of wildlife including invertebrates, amphibians, reptiles, birds, and mammals. These functions provide an indirect biological connection between the streams and wetlands in the review area, and the downstream TNW. The wetlands and streams also recycle nutrients and filter contaminants, thus improving downstream water quality and providing an indirect chemical connection with the downstream TNW. Additionally, the streams and wetlands in the project area provide stream energy dissipation/floodwater storage during high-water flows which reduces erosion, and these features trap some sediments which prevents excessive sediment loading downstream. These functions provide an indirect physical connection to the downstream TNW.

Stretches of streams where OHWM indicators were eliminated due to human activities (e.g., low water crossings) but still have surface flow features (i.e., vegetated swales) were considered in the context of maintaining significant nexus of upstream reaches of streams and their associated water resources. Given the short distances where "breaks" in the OHWM were considered to be of such limited length that adequate hydrologic connectivity still occurs which maintains biological, physical and chemical influences on the TNW to significant degree.

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):

**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:

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

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

## 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

- Tributary waters: 17,302 linear feet with varying widths of 2-12 feet.
- Other non-wetland waters: **2.44** acres.
  - Identify type(s) of waters: Impoundments of non-RPW waters of the US.

## 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters and have, when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, 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: 0.95 acres.

### 7. Impoundments of jurisdictional waters.<sup>9</sup>

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
  - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
  - Demonstrate that water is isolated with a nexus to commerce (see E below).

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

<sup>&</sup>lt;sup>8</sup>See Footnote # 3.

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

<sup>&</sup>lt;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*.

#### 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.

#### 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):

ISOLATED - 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 watland watere	agree List t	upo of aquatia ra	courses!

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

FAILS SIGNIFICANT NEXUS - 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:
- Π 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:

acres. List type of aquatic resource:

- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - $\bigotimes$  Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
  - Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
  - USGS NHD data.
  - $\boxtimes$  USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: 7.5' quadrangles: Alcoa Lake, Texas (1963, revised 1988);

- Thorndale, Texas (1964, Revised 1989).
- USDA Natural Resources Conservation Service Soil Survey. Citation: Citation: USDA-NRCS Soils 2021.
- National wetlands inventory map(s). Cite name:
- State/Local wetland inventory map(s):
- FEMA/FIRM maps: Online viewer.
  - 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
  - Photographs: 🛛 Aerial (Name & Date): All Google Earth Imagery.
    - or 🛛 Other (Name & Date): Consultant delineation report on site photos.
- Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:
- Applicable/supporting scientific literature:
- Other information (please specify): APT output.

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

References:

Levick, L., J. Fonseca, D. Goodrich, M. Hernandez, D. Semmens, J. Stromberg, R. Leidy, M. Scianni, D. P. Guertin, M. Tluczek, and W. Kepner. 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. U.S. Environmental Protection Agency and USDA/ARS Southwest Watershed Research Center, EPA/600/R-08/134, ARS/233046, 116 pp.

U.S. Environmental Protection Agency (U.S. EPA) and Department of the Army (DA). 2022. Technical Support Document for the Final "Revised Definition of Waters of the United States" Rule. December 2022. Available at: https://www.epa.gov/system/files/documents/2022-12/TSD-FinalCombined\_508.pdf

## 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): 3/10/2023
- B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Fort Worth District, SWF-2022-00482 Stoneridge Solar
- C. PROJECT LOCATION AND BACKGROUND INFORMATION:
- State: Texas County: Milam City:
- 1. Center coordinates of site (lat/long in degree decimal format): Lat. 30.539308 N, Long. -97.129389 W. Universal Transverse Mercator:

Name of nearest waterbody: Little Sandy Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **Brazos River** Name of watershed or Hydrologic Unit Code (HUC): **1207010201** 

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different JD form.

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

- Office (Desk) Determination. Date:
- Field Determination. Date(s): 1/11/2023

## 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.

## 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 (See attached tables): Non-wetland waters: 979 linear feet and 0 acres total for open water ponds Wetlands: 0 acres.
- c. Limits (boundaries) of jurisdiction based on: OHWM indicators.

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 not be jurisdictional. Explain:

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

 $<sup>^{2}</sup>$  For purposes of this form, an RPW is defined as a <u>tributary</u> that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

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

#### SECTION III: CWA ANALYSIS

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

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

- TNW Identify TNW: Summarize rationale supporting determination:
   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, 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 tributaries that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: **717** acres. Drainage area: -- acres Average annual rainfall: **36** inches Average annual snowfall: -- inches

## (ii) Physical Characteristics:

Silts

Cobbles

a)	Relationship with TNW:			
	Tributary flows directly into TNW.			
	Tributary flows through 5 tributaries before entering TNW.			
	Project waters are <b>Pick List</b> river miles from TNW.			
	Project waters are <b>Pick List</b> river miles from RPW.			
	Project waters are <b>30</b> aerial (straight) miles from TNW (Sommerville Lake).			
	Project waters are 8 or less aerial (straight) miles from RPW (at least Middle Yegua Ck).			
	Project waters cross or serve as state boundaries. No Explain:			
	Identify flow route to TNW <sup>5</sup> : Little Sandy Ck flows to Sandy Ck flows to Walleye Ck flows to Cross Ck			
	flows to Middle Yegua ck flows to Yegua Ck to Somerville Lake (a navigable in fact TNW) flows to			
	Brazos River (a Section 10 water TNW).			
	Tributary stream order, if known: 1st.			
	(b) <u>General Tributary Characteristics (check all that apply):</u>			
	Tributary is: 🛛 Natural. Explain:			
	Artificial (man-made). Explain:			
	Manipulated (man-altered). Explain:			
	Tributary properties with respect to top of bank (estimate):			
	Average width: 4 feet – S-10			
	Average depth: 1 feet			
	Average side slopes: 2:1.			
	Primary tributary substrate composition (check all that apply):			

Concrete

Muck

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

<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.

Sands

Gravel

Bedrock 🗌 Vegetation. Type/% cover:

Other. Explain: Sandy loam to sandy substrate with scattered gravel, some leaf litter and woody debris.

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Little Sandy Creek (S-10) has gently to moderately sloping, naturally formed banks.

Tributary geometry: Meandering

Tributary gradient (approximate average slope): <1%

(c) <u>Flow:</u>

Tributary provides for: Ephemeral

Estimate average number of flow events in review area/year: 11-20

Describe flow regime: Ephemeral

Other information on duration and volume: **APT output provides information (events over 1 inch) to** estimate flow events.

Surface flow is: Discrete and confined. Characteristics: Due to the sandy soils and gently sloping terrain, this drainage may exhibit both discrete and confined surface flow.

Subsurface flow: Unknown. Explain findings:

Dye (or other) test performed:				
Tributary has (check all that apply):				
$\boxtimes$ Bed and banks				
$\boxtimes$ OHWM <sup>6</sup> (check all indicators that apply):				
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris				
$\boxtimes$ changes in the character of soil $\square$ destruction of terrestrial vegetation				
shelving the presence of wrack line				
vegetation matted down, bent, or absent is sediment sorting				
$\boxtimes$ leaf litter disturbed or washed away $\boxtimes$ scour				
sediment deposition multiple observed or predicted flow events				
water staining abrupt change in plant community				
other (list):				
Discontinuous OHWM. <sup>7</sup> Explain:				
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that				
apply):				
High Tide Line indicated by: Mean High Water Mark indicated by:				
oil or scum line along shore objects survey to available datum;				
fine shell/debris deposits (foreshore) physical markings;				
physical markings/characteristics vegetation lines/changes in vegetation types.				
tidal gauges				
other (list):				
(iii) Chemical Characteristics:				
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed				
characteristics, etc.). Explain: Stream dry during field visits.				
Identify specific pollutants, if known: Possibly E. coli due to presence of cattle grazing in waterhshed				
upstream.				

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

Riparian corridor. Characteristics (type, average width): 80 feet based on aerial photography which deciduous trees.

- Wetland fringe. Characteristics:
- Habitat for:

Federally Listed species. Explain findings:

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:

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

Aquatic/wildlife diversity. Explain findings: Ephemeral streams and associated riparian zones provide water sourcese, resting and feeding habitat for neotropical migrants as well as terrestrial wildlife.

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

#### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u>
  - Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:. Surface flow is: **Pick List** Characteristics: Subsurface flow: **Pick List**. Explain findings: □ Dye (or other) test performed:
- (c) <u>Wetland Adjacency Determination with Non-TNW:</u> Directly abutting
  - ☐ Not directly abutting
    - Discrete wetland hydrologic connection. Explain:
    - Ecological connection. Explain:
    - Separated by berm/barrier. Explain:
- (d) <u>Proximity (Relationship) to TNW</u> Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

#### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:.

Identify specific pollutants, if known:.

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

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:.
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:

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

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

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:.

#### C. SIGNIFICANT NEXUS DETERMINATION

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

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

• Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?

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

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

- Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into 1. TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: The water feature in the review area (S-10) therefore shares an indirect hydrologic connection with a TNW. The effects of streams and wetlands are cumulative within a watershed and can be evaluated as such when applying the significant nexus standard (U.S. EPA and DA 2022). There are at least six other similarly situated ephemeral tributaries of Walleve Creek in this upper part of the Walleve Creek watershed, and there are many additional tributaries of Walleve Creek downstream of the review area. Although ephemeral and intermittent streams generally flow less often than perennial streams, studies have shown that they provide the same hydrological and ecological functions through their movement of water, nutrients and sediment through the watershed (Levick et al. 2008). Biological functions of these streams and impoundment may include providing cover, nesting, movement corridors, and food sources for a variety of wildlife including invertebrates, amphibians, reptiles, birds, and mammals. These functions provide an indirect biological connection between the streams in the review area and the downstream TNW. The streams and impoundment also recycle nutrients and filter contaminants, thus improving downstream water quality and providing an indirect chemical connection with the downstream TNW. Additionally, the streams and impoundment in the project area provide stream energy dissipation/floodwater storage during high-water flows which reduces erosion, and these features trap some sediments which prevents excessive sediment loading downstream. These functions provide an indirect physical connection to the downstream TNW.
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:.

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

**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. <u>RPWs that flow directly or indirectly into TNWs.</u>

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
- Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
  - Provide estimates for jurisdictional waters in the review area (check all that apply):

.

- Tributary waters: linear feet width (ft).
  - Other non-wetland waters: acres.
    - Identify type(s) of waters:
- 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.
- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. Provide estimates for jurisdictional waters within the review area (check all that apply):



- Tributary waters: **979** linear feet **4** width (ft).
- Other non-wetland waters: acres.

Identify type(s) of waters:

## 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
  - Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
  - Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

- 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
  - Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

#### Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. 6.

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, a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

## 7. Impoundments of jurisdictional waters.<sup>9</sup>

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
  - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or

Demonstrate that water is isolated with a nexus to commerce (see E below).

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

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

- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:.

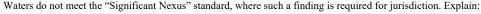
### Identify water body and summarize rationale supporting determination:

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

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
- Identify type(s) of waters:
- Wetlands: acres.

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).



Other: (explain, if not covered above):

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

<sup>&</sup>lt;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.

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

acres.

Ē Wetlands: acres.

FAILS SIGNIFICANT NEXUS - 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):

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

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: Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. Online viewer. U.S. Geological Survey map(s). Cite scale & quad name: 7.5' quadrangles: Alcoa Lake, Texas (1963, revised 1988); Thorndale, Texas (1964, Revised 1989). USDA Natural Resources Conservation Service Soil Survey. Citation: USDA-NRCS Soils 2021. National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: Online viewer. 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)  $\square$ Photographs: Aerial (Name & Date): All Google Earth Imagery. or  $\boxtimes$  Other (Name & Date): On site photos in consultant report. Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): APT output.

## **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

### References:

Levick, L., J. Fonseca, D. Goodrich, M. Hernandez, D. Semmens, J. Stromberg, R. Leidy, M. Scianni, D. P. Guertin, M. Tluczek, and W. Kepner. 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. U.S. Environmental Protection Agency and USDA/ARS Southwest Watershed Research Center, EPA/600/R-08/134, ARS/233046, 116 pp.

U.S. Environmental Protection Agency (U.S. EPA) and Department of the Army (DA). 2022. Technical Support Document for the Final "Revised Definition of Waters of the United States" Rule. December 2022. Available at: https://www.epa.gov/system/files/documents/2022-12/TSD-FinalCombined 508.pdf.

### 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): 3/10/2023

### B. DISTRICT OFFICE, FILE NAME, AND NUMBER:SWF-2022-00482

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Texas County/parish/borough: Milam City: N/A

Center coordinates of site (lat/long in degree decimal format): Lat. 30.544979° N, Long. -97.111122° W.

Universal Transverse Mercator:

Name of nearest waterbody: Little Sandy Creek, Walleye Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Somerville Lake Name of watershed or Hydrologic Unit Code (HUC): Middle Yegua Creek (HUC10-1207010201)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

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

- Office (Desk) Determination. Date:
- Field Determination. Date(s): 1/11/2023

### 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 no "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: linear feet: width (ft) and/or acres. Wetlands: acres.

- **c. Limits (boundaries) of jurisdiction** based on: **Not Applicable.** Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: There are 16 isolated ponds (P-01 thru P-19 minus P-07, 09, and 18) totaling 3.81 acres were excavated wholly in uplands and meet the definition of a preamble water feature. There are also six isolated wetland features (W-01 and W-03 thru W-08) totaling 0.25 acres exist. These wetlands are contained in isolated depressions or isolated vegetated swales or a preamble stock pond. All of these features are determined not to be jurisdictional due to their preamble exclusion or isolated status.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

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

#### 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:	acres	
Drainage area:	acres	
Average annual rainfa	all:	inches
Average annual snow	fall:	inches

## (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☐ Tributary flows through **Pick List** tributaries before entering TNW.

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

Identify flow route to TNW<sup>5</sup>: Tributary stream order, if known:

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

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

(b)	General Tributary Characteristics (check all that apply):         Tributary is:
	Tributary properties with respect to top of bank (estimate):         Average width:       feet         Average depth:       feet         Average side slopes:       Pick List.
	Primary tributary substrate composition (check all that apply):         Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover:       Other. Explain: Sandy loam to sandy substrate with scattered gravel, some leaf litter and woody debris.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: . Presence of run/riffle/pool complexes. Explain: . Tributary geometry: <b>Pick List</b> Tributary gradient (approximate average slope): %
(c)	<ul> <li><u>Flow:</u></li> <li>Tributary provides for: Pick List</li> <li>Estimate average number of flow events in review area/year: Pick List</li> <li>Describe flow regime: .</li> <li>Other information on duration and volume: .</li> </ul>
	Surface flow is: Pick List. Characteristics:
	Tributary has (check all that apply):       Bed and banks         OHWM <sup>6</sup> (check all indicators that apply):       the presence of litter and debris         clear, natural line impressed on the bank       the presence of litter and debris         changes in the character of soil       destruction of terrestrial vegetation         shelving       the presence of wrack line         vegetation matted down, bent, or absent       sediment sorting         leaf litter disturbed or washed away       scour         sediment deposition       multiple observed or predicted flow events         water staining       abrupt change in plant community         other (list):       Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>
	emical Characteristics:

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

Identify specific pollutants, if known:

.

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

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

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

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

#### **Physical Characteristics:** (i)

- (a) General Wetland Characteristics: **Properties:** Wetland size: acres Wetland type. Explain: Wetland quality. Explain: . Project wetlands cross or serve as state boundaries. Explain:
- (b) General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:

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

## (d) Proximity (Relationship) to TNW

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

#### (ii) Chemical Characteristics:

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

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

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

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

All wetland(s) being considered in the cumulative analysis: Pick List ) acres in total are being considered in the cumulative analysis. Approximately (

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

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

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

- 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. <u>RPWs that flow directly or indirectly into TNWs.</u>
  - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
  - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

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

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
  - Identify type(s) of waters:
- 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.
  - Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
  - Identify type(s) of waters:

### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

- 7. Impoundments of jurisdictional waters.<sup>9</sup>
  - As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
    - Demonstrate that impoundment was created from "waters of the U.S.," or
    - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
  - Demonstrate that water is isolated with a nexus to commerce (see E below).

#### 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:

<sup>&</sup>lt;sup>8</sup>See Footnote # 3.

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

<sup>&</sup>lt;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*.

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

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

- Identify type(s) of waters:
- Wetlands: acres.

#### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- $\boxtimes$ 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:

 $\overline{\boxtimes}$ Other: (explain, if not covered above): A total 3.81 acres of excluded preamble stock ponds exist.

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:

 $\overline{\boxtimes}$ Wetlands: 0.25 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 J	D (check all that apply	- checked items	shall be i	included in c	ase file and,	where checked
	and requested, appropri	ately reference source	s below):					

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .  $\boxtimes$
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.

 $\boxtimes$  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:  $\square$ 
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: 7.5' quadrangles: Alcoa Lake, Texas (1963, revised 1988); Thorndale, Texas (1964, Revised 1989).

USDA Natural Resources Conservation Service Soil Survey. Citation: USDA-NRCS Soils 2021.

 $\boxtimes$ National wetlands inventory map(s). Cite name: National Wetlands Inventory, USFWS 2022.

State/Local wetland inventory map(s):

- FEMA/FIRM maps:No floodplains mapped in unincorporated portions of Milam County.
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- $\boxtimes$ Photographs: 🛛 Aerial (Name & Date): All Google Earth Imagery.
  - or Other (Name & Date): Consultant report on site photos.
  - Previous determination(s). File no. and date of response letter:
  - Applicable/supporting case law:
  - Applicable/supporting scientific literature:

 $\boxtimes$ Other information (please specify): See report entitled "Waters of the U.S. Delineation Report for the Stoneridge Solar Project" [Blanton & Associates, Inc. (B&A) August 2022] which include maps and photos of JD and non-JD features, and tables comparing mapped features (by NHD/NWI) and feature type based on field observations, hydroperiod based on field observations, feature size (linear feet/OHWM/acreage), and flow regime and connectivity analysis for all drainage features in the project area.

## **B.** ADDITIONAL COMMENTS TO SUPPORT JD: