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
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A.	REPORT COMPLETION DATE FOR	PPROVED JURISDICTIONAL	L DETERMINATION (JD): 5/30/17
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B. DISTRICT OFFICE. FILE NAME. AND NUMBER: Fort Worth. Medina County Rail Spur. SWF-2017-00

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: Fort Worth, Medina County Rail Spur, SWF-2017-00155
С.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: Texas County/parish/borough: Medina City: Quihi Center coordinates of site (lat/long in degree decimal format): Lat. 29.414626° N, Long. 98.995629° W. Universal Transverse Mercator: 14R 500424 3253924 Name of nearest waterbody: Quihi Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Nueces River Name of watershed or Hydrologic Unit Code (HUC): 12110107 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: 5/30/17 Field Determination. Date(s):
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:
B.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	re are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 970 linear feet: width (ft) and/or 0.43 acres. Wetlands: acres.
	c. Limits (boundaries) of jurisdiction based on: Established by OHWM. Elevation of established OHWM (if known):
	2. Non-regulated waters/wetlands (check if applicable): ³ ☑ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Feature NJD-W-1 is a 4.91 acre isolated wetland that formed in uplands. Based on observations collected during the site visit and aerial imagery, it appears the wetland does not have a connection with a water of the U.S. Land-use within the surrounding area may have contributed to the development of this feature. Four constructed ponds located exclusively within uplands were identified within the study area (NJD-P-1, NJD-P-2, NJD-P-3, and NJD-P-1).

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² 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).

³ Supporting documentation is presented in Section III.F.

P-4). One of the features, NJD-P-2 appears to have been manually created to store surface water for agriculture purposes, and is at a lower elevation than the surrounding landscape. The feature is located in a disturbed area with no apparent connection to a water of the U.S., as defined by an OHWM. USGS topographic maps indicate an unnamed tributary to Quihi Creek within proximity to this feature; however, no bed, bank, or OHWM of a tributary is present in the location of the USGS mapping based on field review. Due to the feature's likely excavation in uplands and lack of a defined connection to a water of the U.S., it is considered not to be a water of the U.S. (i.e., non-jurisdictional). Based on field review, NJD-P-1, NJD-P-3, and NJD-P-4 ponds are not located on tributaries to waters of the U.S., lack a defined connection to a water of the U.S. and appear to be isolated ponds manually excavated in uplands for agricultural land practices, thus they are considered not to be a water of the U.S. (i.e., non-jurisdictional). The study area includes non-jurisdictional drainage features such as swales and erosional features that convey infrequent stormwater drainage (NJD-1, NJD-2, NJD-3, NJD-4, NJD-5, NJD-6). These non-jurisdictional drainage features are located in the southern and central portions of the study area, and appear to convey water between non-jurisdictional upland ponds that are a result of past excavation in uplands for agricultural purposes. The non-jurisdictional drainage features do not have a connection to a water of the U.S., as defined by an OHWM, and do not carry a relatively permanent flow of water. Features that appear to be located in areas previously mapped as streams on USGS topographic maps were evaluated in the field and found to either lack a defined bed, bank, and OHWM that delineates a consistent and defined connection to a water of the U.S., or did not have a direct connection to a water of the U.S. based on review of aerial imagery and USGS topographic maps.

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: N/A.

Summarize rationale supporting determination: N/A.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": N/A.

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 waterbody⁴ 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: 17,000**square miles**Drainage area: 4,500 **square miles**Average annual rainfall: 24-32 inches
Average annual snowfall: 0-0.5 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

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

Project waters are 2-5 river miles from RPW.

Project waters are **30 (or more)** aerial (straight) miles from TNW.

Project waters are 2-5 aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Cherry Creek and Quihi Creek flow to Hondo Creek, the Frio River and eventually to the Nueces River, a TNW.

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

⁵ 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: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate): Average width: 8 feet Average depth: 1 feet Average side slopes: 3:1.
		Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Stable, moderately incised. Presence of run/riffle/pool complexes. Explain: None. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1 %
	(c)	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 6-10 Describe flow regime: Intermittent. Other information on duration and volume: Rainfall is mostly distributed across winter and spring months.
		Surface flow is: Discrete and confined. Characteristics:
		Subsurface flow: Unknown . Explain findings:
		Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting scour multiple observed or predicted flow events abrupt change in plant community other (list): Discontinuous OHWM. ⁷ 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: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list): Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
(iii)	Cha	emical Characteristics: cracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: Stream flows clear through rural areas. Historical land use appears to be agricultural with contemporary moderate impacts. https://doi.org/10.1001/j.com/10.100

Tributary stream order, if known:

⁶A 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. ⁷Ibid.

	(IV)	Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): A narrow intermittent corridor is present, averaging a
wid	th of	approximately 20 feet where present.
		Wetland fringe. Characteristics:
		Habitat for:
		Federally Listed species. Explain findings:
		Fish/spawn areas. Explain findings:
		Other environmentally-sensitive species. Explain findings:
		Aquatic/wildlife diversity. Explain findings:
2.	Cha	aracteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)	Physical Characteristics:
		(a) General Wetland Characteristics:
		Properties:
		Wetland size: acres
		Wetland type. Explain: .
		Wetland quality. Explain: .
		Project wetlands cross or serve as state boundaries. Explain:
		(b) General Flow Relationship with Non-TNW:
		Flow is: Pick List. Explain:
		Surface flow is: Pick List
		Characteristics: .
		Subsurface flow: Pick List. Explain findings:
		Dye (or other) test performed:
		(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) <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:
		☐ Aquauc/witdine diversity. Explain findings:
3.	Cha	aracteristics 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.

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):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs.
	Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that
	tributary is perennial: .
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are
	jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows
	seasonally: The aerial photographs consulted as documented in the Waters of the U.S. Delineation Report indicate the
	presence of water in each year with coverage and indication of flow in a majority of the years with coverage. The position,
	location, and size of the channel along with sufficent annual rainfall indicate the potential for significant flow within the
	channel and potential for sustained flow over a season.

	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 970 linear feet 19 width (ft).
	Other non-wetland waters: acres. Identify type(s) of waters: .
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	■ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	Impoundments of jurisdictional waters. ⁹ As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
	Demonstrate that water is isolated with a nexus to commerce (see E below).
DE	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10
	which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:

E.

 ⁸See Footnote # 3.
 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 10 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.

	☐ 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). ☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
of the	Other: (explain, if not covered above): Constructed ponds, swales, and erosional features are not considered to be waters of U.S. because each feature: (1) does not have a surface hydrologic connection to a water of the U.S.; (2) is not adjacent to a water he U.S.; (3) is not used for, never was in the past, and likely never would be used for interstate commerce; and (4) is not an erstate water (USACE, 2008). Non-jurisdictional drainage features such as swales, erosional features, and ditches excavated olly in and draining only uplands that do not carry a relatively permanent flow of water are not considered to be waters of the . based on the most recently approved guidance from the USACE and EPA (USACE, 2008).
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: 4.91 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: 4.91 acres.
SEC	CTION 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:Wetland delineation exhibits submitted by applicant. 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: Medina County. USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name:1:24,000 Texas Quihi and RioMedina. USDA Natural Resources Conservation Service Soil Survey. Citation: Medina County, Texas. National wetlands inventory map(s). Cite name:NWI map for Medina County. State/Local wetland inventory map(s):
	FEMA/FIRM maps:FIRM Panel 48325C. 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date):Google Earth 11/29/2016 and NAIP 2014. or Other (Name & Date):Field photographs June 2, 24, and 29, 2015, and November 22, 2016. Previous determination(s). File no. and date of response letter:

Applicable/supporting case law: .	
Applicable/supporting scientific literature:	
Other information (please specify): .	

B. ADDITIONAL COMMENTS TO SUPPORT JD: Feature NJD-W-1 is a 4.91 acre isolated wetland that has formed in a depression surrounded by uplands. Based on observations collected in the field and aerial imagery, the wetland does not have a connection to a water of the U.S. Historical aerial photography (1995) shows the previous landscape to be similar to the existing site conditions. A wetland delineation within the study area was conducted by HDR Engineering, Inc. on November 22, 2016, according to the 1987 Wetland Delineation Manual and also the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region. A soil pit was dug inside this wetland and information was recorded on data sheet DP-1. The boundary of the wetland was recorded by GPS and aerial imagery. All three wetland criteria were met for this feature. It appears this area collects rainfall in the immediate area and may receive overland flow. NJD-W-1 is a depressional wetland; however, no connection to a water of the U.S. was observed during the site visit or on aerial imagery. Wetland NJD-W-1 is over 0.73 mile from the nearest potential water of the U.S. (Elm Creek) with no hydrologic or biological connection to a water of the U.S. Furthermore, NJD-W-1 is not located within the 100-year floodplain of nearby creeks, including Elm Creek, Cherry Creek, Quihi Creek or their associated tributaries. Due to the lack of a connection with a water of the U.S. and its location outside of the 100-year floodplain, NJD-W-1 was determined to be an isolated wetland, with no significant nexus, and non-jurisdictional.

Ponds NJD-P-1, NJD-P-2, NJD-P-3, and NJD-P-4 are features constructed in uplands for agricultural purposes. One of the features, NJD-P-2 appears to have been manually created to store surface water for agriculture purposes, and is at a lower elevation than the surrounding landscape. The feature is located in a disturbed area with no apparent connection to a water of the U.S., as defined by an OHWM. USGS topographic maps indicate an unnamed tributary to Quihi Creek within proximity to this feature; however, no bed, bank, or OHWM of a tributary is present in the location of the USGS mapping based on field review. Due to the feature's likely excavation in uplands and lack of a defined connection to a water of the U.S., it is considered not to be a water of the U.S. (i.e., non-jurisdictional). Based on field review, NJD-P-1, NJD-P-3, and NJD-P-4 ponds are not located on tributaries to waters of the U.S., lack a defined connection to a water of the U.S. and appear to be isolated ponds manually excavated in uplands for agricultural land practices, thus they are considered not to be a water of the U.S. (i.e., non-jurisdictional).

Non-jurisdictional drainage features NJD-1, NJD-2, NJD-3, NJD-4, NJD-5, and NJD-6 are swales or upland erosional features that convey infrequent stormwater drainage. These non-jurisdictional drainage features are located in the southern and central portions of the study area, and appear to convey water between non-jurisdictional upland ponds that are a result of past excavation in uplands for agricultural purposes. The non-jurisdictional drainage features do not have a connection to a water of the U.S., as defined by an OHWM, and do not carry a relatively permanent flow of water. Features that appear to be located in areas previously mapped as streams on USGS topographic maps were evaluated in the field and found to either lack a defined bed, bank, and OHWM that delineates a consistent and defined connection to a water of the U.S., or did not have a direct connection to a water of the U.S. based on review of aerial imagery and USGS topographic maps.

Southwest Gulf Railroad, Medina County Rail Spur Project SWF-2017-00155

Summary Table of Jurisdictional and Non-Jurisdictional Features in the Project Area

Feature ID ¹	Latitude and Longitude (Decimal Degrees)	Resource Type ²	Proposed Jurisdictional Determination ³	Linear Feet in Project Area	Acres in Project Area
S-1	29.376°N, 98.995°W	ES	JD	288	0.01
S-2	29.383°N, 98.991°W	IS	JD	304	0.08
S-3	29.424°N, 98.988°W	IS	JD	378	0.34
NJD-W-1	29.456°N, 98.998°W	EW	NJD	-	4.91
NJD-P-1	29.401°N, 98.978°W	CUP	NJD	-	0.06
NJD-P-2	29.426°N, 98.993°W	CUP	NJD	-	0.05
NJD-P-3	29.453°N, 99.013°W	CUP	NJD	-	0.0001
NJD-P-4	29.456°N, 98.997°W	CUP	NJD	-	0.01
NJD-1	29.359°N, 99.009°W	S/EF	NJD	328	-
NJD-2	29.359°N, 99.006°W	S/EF	NJD	302	-
NJD-3	29.361°N, 99.004°W	S/EF	NJD	341	-
NJD-4	29.373°N, 98.996°W	S/EF	NJD	514	-
NJD-5	29.394°N, 98.985°W	S/EF	NJD	20	-
NJD-6	29.408°N, 98.977°W	S/EF	NJD	320	-

¹ Feature ID is the name of a feature or an assigned label as reported in the Delineation and Proposed Jurisdictional Determination Report dated March 2017.

² Resource Types: EW = Emergent wetland, IS = Intermittent Stream, ES = Ephemeral Stream, CUP = Constructed Upland Pond, S/EF = Swale or Erosional Feature

³ Proposed Jurisdictional Determination: JD = Jurisdictional (i.e., a water of the U.S.), NJD = non-jurisdictional (i.e., not a water of the U.S.)



































