



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

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 10/5/2020

ORM Number: SWG-2019-00446

Associated JDs: SWG-1994-01118 (D-6054 – Katy Prairie Mitigation Bank); SWG-2017-00358 (Magellan Pipeline); SWG-2018-00593 (NWP 27 issued by default).

Review Area Location¹: State/Territory: Texas City: Cypress County/Parish/Borough: Harris

Center Coordinates of Review Area: Latitude 29.951509 Longitude -95.787246

II. FINDINGS

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

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

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

§ 10 Name	§ 10 Size	§ 10 Criteria	Rationale for § 10 Determination
N/A.	N/A.	N/A.	N/A.

C. Clean Water Act Section 404

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

Tributaries ((a)(2) waters):			
(a)(2) Name	(a)(2) Size	(a)(2) Criteria	Rationale for (a)(2) Determination
N/A.	N/A.	N/A.	N/A.

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

Adjacent wetlands ((a)(4) waters):			
(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination
N/A.	N/A.	N/A.	N/A.

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

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

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



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D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
N/A.	N/A.	N/A.	N/A.	N/A.
Wetland GLO-W-10	0.12	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland GLO-W-11	0.25	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-W-12	0.85	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland GLO-W-13	4.16	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland GLO-W-14	0.21	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-W-15	1.44	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1)

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

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



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
			– (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-W-16	0.98	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-W-17	0.36	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-W-18	0.33	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland K155-W-2	3.47	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland PP-W-1	0.10	acre(s)	(b)(6) Prior converted cropland. Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1987 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland PP-W-2	0.08	acre(s)	(b)(6) Prior converted cropland. Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
				contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland PP-W-3	0.11	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland PP-W-4	0.89	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland PP-W-5	0.10	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland PP-W-6	0.09	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-108	0.08	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland TCW-W-11	0.22	acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
Wetland TCW-W-13	4.00 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-15	0.20 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-2	0.79 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-207	0.09 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-302	0.49 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-304	0.16 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-308	0.06 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
			purposes, specifically crop production, grazing and haying.
Wetland TCW-W-309	0.89	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-311	0.85	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-314	0.66	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-318	0.25	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-32	0.07	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-322	1.15	acre(s)	(b)(6) Prior converted cropland.
Wetland TCW-W-328	0.42	acre(s)	(b)(6) Prior converted cropland.



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
			wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-330	1.21	acre(s)	(b)(6) Prior converted cropland. Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-6	1.70	acre(s)	(b)(6) Prior converted cropland. Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland TCW-W-9	0.14	acre(s)	(b)(6) Prior converted cropland. Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland WB-W-13	0.60	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland WB-W-14	0.76	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland WB-W-19	1.43	acre(s)	(b)(1) Non-adjacent wetland. This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.



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Excluded waters ((b)(1) – (b)(12)): ⁴			
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
Wetland WB-W-54	2.71 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland WB-W-56	1.68 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland WB-W-59	2.09 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland WB-W-63	4.56 acre(s)	(b)(6) Prior converted cropland.	Based on historic aerial imagery the locations of these wetlands were manipulated for agricultural purposes prior to 23 December 1985 and contemporary aerial imagery shows these wetland areas are currently used for agricultural purposes, specifically crop production, grazing and haying.
Wetland WB-W-13	0.60 acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-ST-1	0.02 acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-ST-2	0.01 acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a



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Excluded waters ((b)(1) – (b)(12)): ⁴				
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				natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-ST-3	0.01	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Wetland GLO-ST-4	1.31	acre(s)	(b)(1) Non-adjacent wetland.	This wetland does not abut an (a)(1) – (a)(3) water; is not inundated by flooding from an (a)(1) – (a)(3) water in a typical year; is not physically separated from an (a)(1) – (a)(3) water only by a natural berm, bank, dune, or similar natural feature; or is not physically separated from an (a)(1) – (a)(3) water only by an artificial dike, barrier, or similar artificial structure.
Basin 1	34.6	acre(s)	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff.	This man-made feature was constructed or excavated wholly in uplands, and is used to convey, treat, infiltrate, or store stormwater runoff. This feature extends from the Harris County Flood Control District (HCFCD) ditch K-150-00-00.
Basin 1a	4.3	acre(s)	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff.	This man-made feature was constructed or excavated wholly in uplands, and is used to convey, treat, infiltrate, or store stormwater runoff.
Ditch01	4195.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland. Physical observation and LIDAR elevation data confirm this feature does



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			(a)(4) water that do not satisfy the conditions of (c)(1).	not extend the ordinary high water mark of an (a)(1) – (3) water.
Ditch02	4441.8	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch03	2279.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch04	2242.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch05	4484.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch06	2086.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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			a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	
Ditch07	1116.4	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch08	226.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch09	2794.2	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch10	5576.8	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch11	5984.4	linear feet	(b)(5) Ditch that is not an (a)(1) or	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in



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Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			(a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	a natural tributary, and is not constructed in an adjacent wetland.
Ditch12	5337.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch13	7513.5	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch14	2364.0	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch15	2132.4	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Ditch16	421.0	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch17	2117.7	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch18	2288.5	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch19	1054.5	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch20	2089.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			conditions of (c)(1).	
Ditch22	1465.4	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch23	4034.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch24	5062.5	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch25	760.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch26	4890.6	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			(a)(4) water that do not satisfy the conditions of (c)(1).	
Ditch27	3513.8	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch27a	488.6	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch28	1469.5	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch29	1128.4	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch30	2756.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	
Ditch31	3887.2	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch32	1710.7	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch33	611.1	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch34	325.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch35	2080.2	linear feet	(b)(5) Ditch that is not an (a)(1) or	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			(a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	a natural tributary, and is not constructed in an adjacent wetland.
Ditch36	4298.4	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch37	2292.0	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch38	2076.7	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch39	1053.9	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Ditch40	692.3	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.
Ditch41	597.8	linear feet	(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	This man-made ditch exhibits ephemeral surface water flow, neither relocates nor is constructed in a natural tributary, and is not constructed in an adjacent wetland.

III. SUPPORTING INFORMATION

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

Information submitted by, or on behalf of, the applicant/consultant: [20 May 2019 Wetland delineation report submitted by BGE, Inc.](#)

This information is and is not sufficient for purposes of this AJD.

Rationale: [Submitted wetland delineation did not include site drainage ditches.](#)

Data sheets prepared by the Corps: [Site visit conducted 7 November 2019](#)

Photographs: [Aerial and Other: 2015 Texas Orthoimagery Program \(TOP\), 0.5-meter Color Infrared \(CIR\); 2018 National Agriculture Imagery Program \(NAIP\) 1.0-meter CIR; Digital Globe High Resolution NC Aerial Imagery - 2019; Google Earth Aerial Images, 1943 - 2019.; 7 November 2019 site visit photos.](#)

Corps site visit(s) conducted on: [7 November 2019](#)

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

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

USDA NRCS Soil Survey: [Web Soil Survey, Soils Hydric Rating Report.](#)
<https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/survey/partnership/ncss/>

USFWS NWI maps: [FWS NWI Web Map Services \(WMS\)](#)
<https://www.fws.gov/wetlands/arcgis/services/Wetlands/MapServer/WMServer?request=GetCapabilities&service=WMS>).

USGS topographic maps: [1916, 1971, 2010, 2013, 2019; Warren Lake NE, Texas; and Warren Lake SE, Texas.](#)

Other data sources used to aid in this determination:



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

B. Typical year assessment(s): BGE, Inc. conducted a wetland delineation on 1-2 April 2014, 5 May 2014, 2 July 2014, 29 August 2018, and 26 September 2018. According to the Antecedent Precipitation Tool (APT), the hydrologic condition WETS scores on the BGE site visit dates were 10 (normal), 9 (drier than normal), 10, 14 (normal), and 13 (normal), respectively. In addition, the APT score for the 7 November 2019 Corps site visit date was 17 (wetter than normal). The APT calculated hydrologic conditions for the reviewed historic aerial imagery and site visit dates are listed in Table 1 below.

TABLE 1

Date	WETS	APT Condition	Season	PDSI	Preceding 72 hr Rainfall
Google Earth Aerials					
1/31/1995	13	Normal	Wet	Moderate Wet	~2"
6/30/2005	9	Drier than Normal	Dry	Mild Drought	0
1/31/2009	7	Drier than Normal	Wet	Mod Drought	0
1/31/2011	9	Drier than Normal	Wet	Mild Drought	<1"
1/31/2014	10	Normal	Wet	Mod Drought	0
4/30/2019	9	Drier than Normal	Wet	Mild Wet	0
Texas Orthoimagery					
1/27/2015	12	Normal	Wet	Incip Wet	<1"
National Agriculture Imagery Program					
12/4/2018	12	Normal	Wet	Severe Wet	<1"
Digital Globe Aerial Imagery					
9/12/2017	18	Wetter than Normal	Dry	Extreme Wet	0
Delineation Dates					
4/1-2/2014	10	Normal	Wet	Mod Drought	<1"
5/5/2014	9	Drier than Normal	Dry	Incip Wet	0
7/2/2014	10	Normal	Dry	Normal	<1"
8/29/2018	14	Normal	Dry	Incip Wet	0
9/26/2018	13	Normal	Dry	Moderate Wet	0
Site Visit Date					
11/7/2019	17	Wetter than Normal	Wet	Normal	1-2"

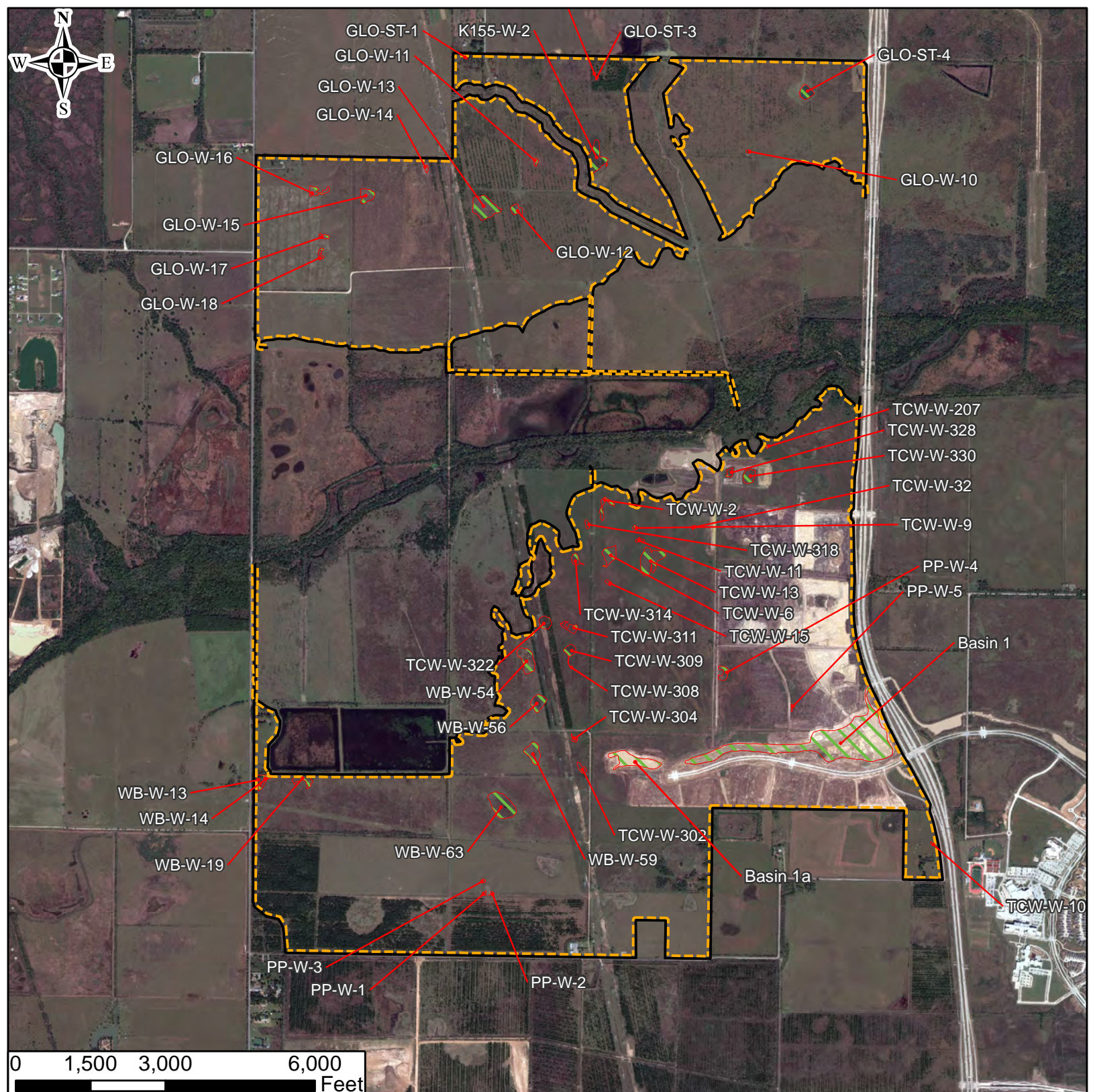
Based on visual observation and historic aerial imagery review, the site ditches exhibit ephemeral flow only in direct response to precipitation. Approximately 60% of the review area is located within the 0.2% annual chance flood zone (500-year floodplain). Based on a review of LiDAR elevation data and the FEMA flood





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insurance study (FIS) 48201CV006C, the portions of the subject site that lie within the 1% annual chance flood zone (100-year floodplain) are situated at least 1 foot above 10% annual chance flood zone (10-year floodplain) base flood elevation between 155 and 158 feet (NAVD88). None of the reviewed aerial images depict overbank flooding from the closest (a)1- (a)3 waters within the subject site. Of particular interest are those photos collected during Wetter than Normal precipitation conditions. Additionally, overbank flooding was not observed during the 7 November 2019 site visit date which was during a period of wetter than normal precipitation. Therefore, based on the APT tool analysis of historic aerial imagery and site visit dates there is no data to support the conclusion that any of the aquatic features in review are inundated by overbank flooding from an (a)(1) – (a)(3) water in a typical year.

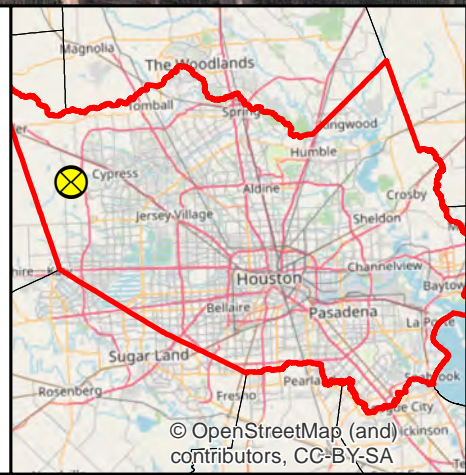
- C. Additional comments to support AJD:** Due to site complexity there are two AJD maps, one for the wetlands and other non-tributary features, and the other for ditches.



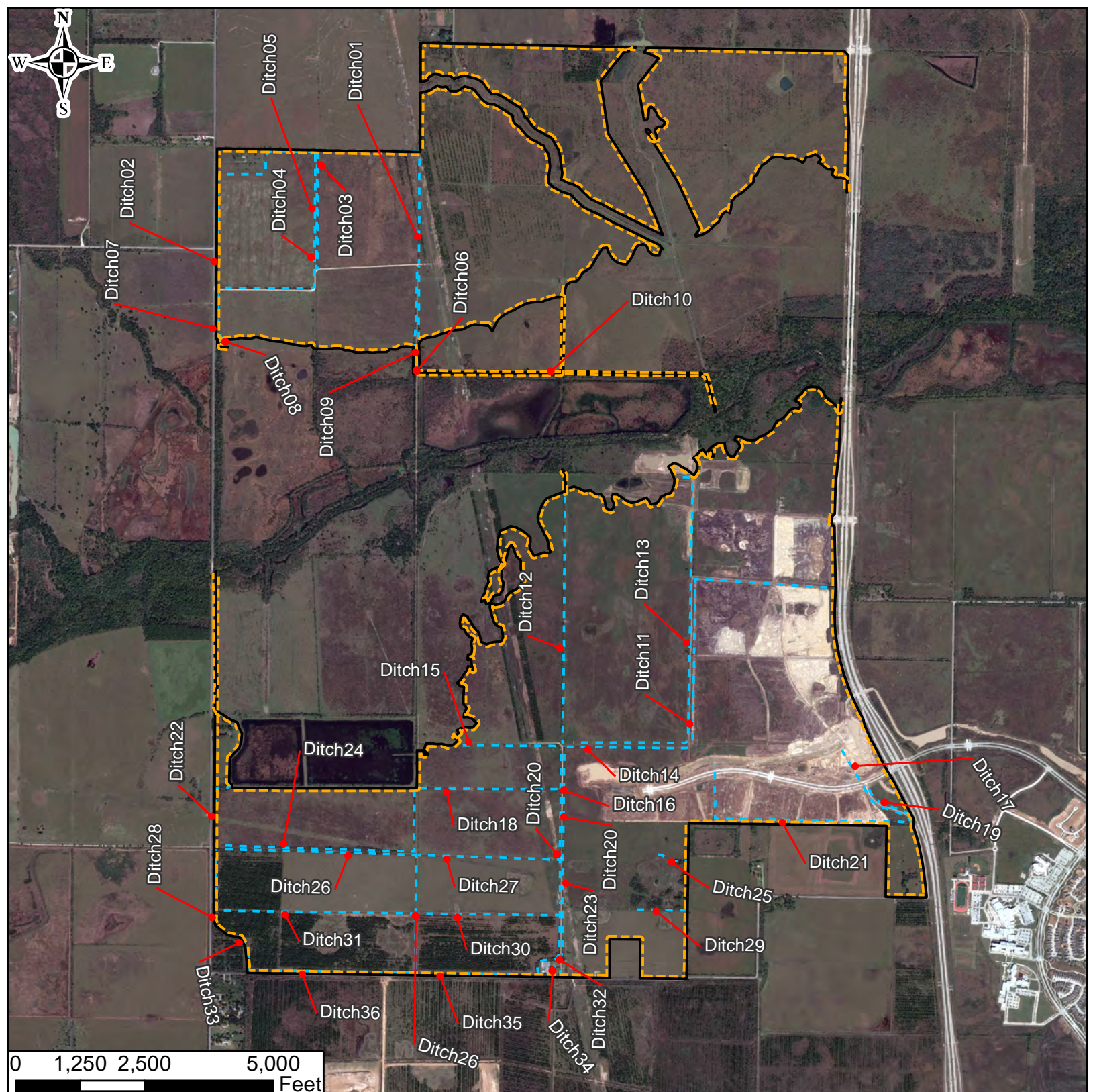
SWG-2019-00446
Bridgeland Development, LP
PJD and AJD
Approximate 4,240-Acre Bridgeland West Tract
Harris County, Texas

 AJD_Boundary ~ 2,881 ac
 AJD_Aquatic_Resources



Imagery Source: Digital Globe High Resolution Aerial Imagery, 1.0-meter Near Color
 Imagery Date: 9 November 2019
 Note: Review area reflects neither property boundary nor ownership.



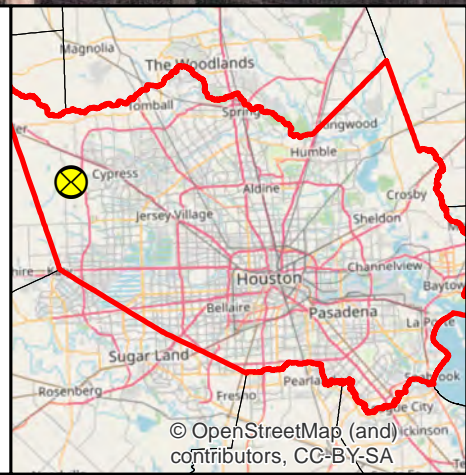
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Bridgeland Development, LP
PJD and AJD
Approximate 4,240-Acre Bridgeland West Tract
Harris County, Texas

 AJD_Boundary ~ 2,881 ac
 Ditches

Imagery Source: Digital Globe High Resolution Aerial Imagery, 1.0-meter Near Color
 Imagery Date: 9 November 2019
 Note: Review area reflects neither property boundary nor ownership.



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