



**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): 3/11/2021

ORM Number: SWG-2018-00174

Associated JDs: N/A.

Review Area Location¹: State/Territory: Texas City: Simonton County/Parish/Borough: Fort Bend

Center Coordinates of Review Area: Latitude 29.640717 Longitude -95.982596

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
Brazos River	8.55 acre(s)	RHA Non-tidal water is on the district's Section 10 waters list	The Brazos River is listed as a navigable water on the Galveston District's navigable waters list.

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
Brazos River	8.55 acre(s)	(a)(1) Water is also subject to Sections 9 or 10 of the Rivers and Harbors Act - RHA Tidal water is subject to the ebb and flow of the tide.	The Brazos River is currently used, was used in the past, or may be susceptible to use in interstate or foreign commerce and has perennial flow. The Brazos River is also listed as a navigable water on the Galveston District's navigable waters list. Therefore, the Brazos River is an (a)(1) water.

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

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

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



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Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
Water 4	677	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This feature is a naturally occurring intermittent surface water channel that contributes surface water flow to an (a)(1) water, the Brazos River, in a typical year. See additional information in the APT discussion.
Water 5	4256	linear feet	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This feature is a naturally occurring perennial surface water channel that contributes surface water flow to an (a)(1) water, the Brazos River, in a typical year. See additional information in the APT discussion.
Water 2	4512	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This feature is a naturally occurring intermittent surface water channel that contributes surface water flow to an (a)(1) water, the Brazos River, in a typical year. See additional information in the APT discussion.
Water 5	765	linear feet	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year.	This feature is a naturally occurring intermittent surface water channel that contributes surface water flow to an (a)(1) water, the Brazos River, in a typical year. See additional information in the APT discussion.
N/A.	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.	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.	N/A.

D. Excluded Waters or Features



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Wet 1	0.376	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 2	0.263	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 3	0.256	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 4	1.366	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 5	0.053	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 6	0.093	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 7	0.356	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 8	0.277	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 9	0.190	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of

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
				agriculture production through cattle grazing and haying.
Wet 10	0.087	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 11	0.04	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 12	0.404	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 13	0.009	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 14	0.004	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 15	0.002	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 16	0.237	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 17	0.320	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 18	1.056	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Wet 19	0.328	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 20	0.038	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 21	0.038	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 22	2.340	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 23	0.193	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 24	1.805	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 25	0.066	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 26	0.028	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 27	0.026	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Wet 28	0.154	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 29	0.048	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 30	1.210	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 31	0.068	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 32	0.317	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 33	0.003	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 34	0.08	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 35	3.338	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 36	1.228	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Wet 37	4.191	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 38	0.125	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 39	0.468	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Wet 40	0.230	acre(s)	(b)(6) Prior converted cropland.	Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Water 1	1200	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.
Water 3	2059	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.
Water 6	94	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.
Water 7	309	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.
Water 11	135	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Water 8	0.27	acre(s)	(b)(6) Prior converted cropland.	This feature is excavated out of Wet 32, a (b)(6) excluded wetland, for the purpose of providing drinking water for livestock production. Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Water 9	0.38	acre(s)	(b)(6) Prior converted cropland.	This feature is excavated out of Wet 31, a (b)(6) excluded wetland, for the purpose of providing drinking water for livestock production. Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Water 10	0.39	acre(s)	(b)(6) Prior converted cropland.	This feature is excavated out of Wet 30, a (b)(6) excluded wetland, for the purpose of providing drinking water for livestock production. Based on information obtained from the landowner, this feature has been used from before 1985 to present day in the support of agriculture production through cattle grazing and haying.
Impound 1	1.46	acre(s)	(b)(8) Artificial lake/pond constructed or excavated in upland or a non-jurisdictional water, so long as the artificial lake or pond is not an impoundment of a jurisdictional water that meets (c)(6).	Impound 1 is an impoundment of an ephemeral feature, Water 4, which is a non-jurisdictional feature. This feature is not an (a)(3) Lake/pond or impoundment of a jurisdictional water which contributes surface water flow directly or indirectly to an (a)(1) water in a typical year and is not inundated by flooding from an (a)1 – (a)(3) water in a typical year..
Water 4	1086	linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool.	Although there is evidence of some historical flow, there is no contemporary evidence of intermittent flow only remnant ephemeral flow can be assumed. See additional information in the APT discussion.
Pond 1	0.12	acre(s)	(b)(8) Artificial lake/pond constructed or excavated in upland or a non-jurisdictional water, so long as the artificial lake or pond is not an	The pond was excavated from uplands. This feature is not an impoundment of a jurisdictional water and therefore, the (c)(6) condition is not applicable.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
			impoundment of a jurisdictional water that meets (c)(6).	
Pond 2	0.26	acre(s)	(b)(8) Artificial lake/pond constructed or excavated in upland or a non-jurisdictional water, so long as the artificial lake or pond is not an impoundment of a jurisdictional water that meets (c)(6).	The pond was excavated from uplands. This feature is not an impoundment of a jurisdictional water and therefore, the (c)(6) condition is not applicable.
Ditch 1	558	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.
Ditch 2	455	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.
Ditch 4	438	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
Ditch 5	103	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.
Ditch 6	709	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.
Ditch 7	199	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).	The feature is a constructed or excavated channel used to convey water. The ditch does not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditch does not relocate a tributary nor is it constructed in a tributary.

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: Wetland Delineation submitted by Berg-Oliver Associates, Inc. dated 26 February 2018

This information Select. sufficient for purposes of this AJD.

Rationale: N/A or describe rationale for insufficiency (including partial insufficiency).

☒ Data sheets prepared by the Corps: DP01 dated 31 October 2019

☒ Photographs: Other: Photos from Corps site visit on 31 October 2019; Photos taken by Berg-Oliver on 8 October 2020

☒ Corps site visit(s) conducted on: 31 October 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: Fort Bend County Web Soil Survey



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- ☒ USFWS NWI maps: Fort Bend County NWI
- ☒ USGS topographic maps: 1971 Fulshear, Texas and 1960 Wallis, Texas (1980 Photorevised)

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	Google Earth aerials 1995, 2004, 2006, 2010, 2014, 2015, 2017, and 2019

B. Typical year assessment(s): Water features (Water 1, Water 2, Water 3, Water 4, Water 5, Water 6, Water 7, and Water 11) were analyzed using the Antecedent Precipitation Tool (APT). The APT is a tool that affords the user the capability to look at rainfall at a specific location in the recent past, cumulative for the last 3 months {WETS analysis product score}, as well as a climatological review for the past 30 years and the PDSI Drought index. This tool also provides WebWimp water balance/hydrologic seasons information. The APT uses climatic data collected from numerous nearby weather stations and produces the most reliable source for a full 30 years of precipitation data. The results of this analysis are presented in the following table:

Date	Prior 72 hours	PDSI Class	WebWIMP	ARC Score	APC
1/31/1995	3-4	Moderate Wetness	Wet Season	18	Wetter Than Normal
1/8/2010	>1	Mild Wetness	Wet Season	13	Normal Conditions
4/21/2012	2	Moderate Drought	Wet Season	15	Wetter Than Normal
5/2/2014	0	Incipient Wetness	Dry Season	9	Drier Than Normal
11/21/2015	1	Severe Wetness	Wet Season	13	Normal Conditions
2/24/2017	2	Incipient Wetness	Wet Season	14	Normal Conditions
4/4/2017	2	Incipient Wetness	Wet Season	16	Wetter Than Normal
4/7/2017	0	Incipient Wetness	Wet Season	15	Wetter Than Normal
4/25/2017	4	Incipient Wetness	Wet Season	15	Wetter Than Normal
4/1/2019	0	Mild Wetness	Wet Season	9	Drier Than Normal
10/31/2019	1	Severe Wetness	Wet Season	14	Normal Conditions
10/8/2020	0	Incipient Drought	Wet Season	14	Normal Conditions

Water 1 was determined to have ephemeral flow. No water was visible in the 2010, 2012, 2014, 2019 aerials and no water was observed in the 2020 pictures. Water 2 was determined to have intermittent flow. Water is visible in the 2015 and 2017 aerials and water was observed in the 2020 pictures; however, there was no water observed at the time of the Corps site visit on 31 October 2019 nor in the April 2019 aerial. Water 3 was determined to have ephemeral flow. No water was observed at the time of the Corps site visit nor in the 2020 pictures. This feature is heavily forested; therefore, the feature is not visible in aerials. Water 4 is divided into two sections. The section north of the culvert that connects Water 5 to Water 4 was determined to be ephemeral. The section of Water 4 south of the culvert was determined to be intermittent. In the February 2017 aerial, water is visible south of the culvert and dry north of the culvert. In the 2019 aerial, water is not visible south of the culvert. Water 5 is also divided into two sections, an intermittent section and a perennial section. There is an overflow valve connected to Water 5, so that



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when Water 5 reaches a certain depth, the water flows into the valve then through a sub-surface culvert into Water 4. The northeast section of Water 5 has water visible in 2015 and 2017 but no water visible in 2019. The southwest section has water visible in 2015, 2017, and 2019. Water was observed at the time of the Corps site visit in the southwest section. Waters 6, 7, and 11 are wooded; therefore, not visible in aerials. The 2020 pictures do not show any water in these features.

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