



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): April 2, 2021

ORM Number: SPK-2002-00685 (Offsite Infrastructure)

Associated JDs: N/A

Review Area Location¹:

State/Territory: CA City: Roseville County: Placer County

Center Coordinates of Review Area: Latitude 38.806° Longitude -121.308°

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).
- 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
ID-1-200200685	0.058 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID-1 is an unnamed intermittent tributary to Pleasant Grove Creek, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Natomas Cross Canal. ID-5 is an intermittent stream augmented by summer irrigation water and urban storm water run-off.
ID-3-200200685	0.03 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID-3 is an unnamed intermittent tributary to Pleasant Grove Creek, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Natomas Cross Canal. ID-5 is an intermittent stream augmented by summer irrigation water and urban storm water run-off.
ID-4-200200685	0.001 acres	(a)(2) Intermittent tributary contributes surface water flow	ID-4 is an unnamed intermittent tributary to Pleasant Grove Creek, which is a tributary to the Sacramento

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 independent 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.

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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		directly or indirectly to an (a)(1) water in a typical year	River, an (a)(1) water of the U.S., via Natomas Cross Canal. ID-5 is an intermittent stream augmented by summer irrigation water and urban storm water run-off.
ID-5-200200685	0.016 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID-5 is an unnamed intermittent tributary to Pleasant Grove Creek, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Natomas Cross Canal. ID-5 is an intermittent stream augmented by summer irrigation water and urban storm water run-off.
Pleasant Grove Creek-200200685	0.205 acres	(a)(2) Perennial tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	Pleasant Grove Creek is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Natomas Cross Canal. Pleasant Grove Creek is a perennial stream augmented by summer irrigation water and urban storm water run-off.

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

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12))⁴:

Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
CD-1-200200685	0.002 acres	(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)	CD-1 is a concrete lined ditch constructed in upland. The ditch is a part of the railroad transportation corridor and was constructed to convey storm water. The ditch is not a relocated tributary, was not constructed in a tributary, and no part was constructed in an (a)(3) or (a)(4) water.
ED-1-200200685	0.006 acres	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	ED-1 flows only in direct response to precipitation (e.g., rain or snowfall)
SW-1-200200685	0.0004 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SW-2-200200685	0.001 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3)

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			water in a typical year.
SW-3-200200685	0.004 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SW-4-200200685	0.006 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SW-5-200200685	0.02 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SW-6-200200685	0.001 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SWS-1-200200685	0.021 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.
SWS-2-200200685	0.01 acres	(b)(1) Non-adjacent wetland	This wetland meets the definition of paragraph (c)(16); however, it does not abut, nor is it inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor is it physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the wetland and a paragraph (a)(1) – (a)(3) water in a typical year.

III. SUPPORTING INFORMATION

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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: *Data sheets provided by the consultant dated, October 16, 2020, and an Aquatic Resources Delineation Map dated, February 5, 2021.*

This information is sufficient for purposes of this AJD.

Rationale: *N/A*

Data sheets prepared by the Corps: *None*

Photographs:

1) *Ground photos taken by the consultant in the field on October 16, 2020.*

2) *Aerial Imagery: Google Earth 7.3.3.7692. Image Dates: April 17, 2014, February 28, 2015, April 16, 2015, April 4, 2017, and February 1, 2018. Roseville, California. Latitude 38.806°N, Longitude -121.308°W, eye alt 500 – 4,100 ft. Retrieved February 15, 2021, from <http://www.earth.google.com>*

3) *Digital Globe 2020.Q2.R1.OCR1. Image Dates: January 31, 2019, January 7, 2020, and February 10, 2020. Roseville, California. Latitude 38.806°N, Longitude -121.308°W, eye alt 500 – 4,100 ft. Retrieved February 15, 2021, from <https://evwhs.digitalglobe.com>*

Corps Site visit(s) conducted on: *N/A*

Previous Jurisdictional Determinations (AJDs or PJDs): *N/A*

Antecedent Precipitation Tool: *provide detailed discussion in Section III.B.*

USDA NRCS Soil Survey: *N/A.*

USFWS NWI maps: *National Wetland Inventory. Project area: Roseville, California. Source imagery date: 1983. Washington, D.C.: U.S. Fish and Wildlife Service, Dept. of the Interior. Retrieved February 15, 2021, from Wetland Mapper: <https://www.fws.gov/wetlands/data/mapper.html>*

USGS topographic maps: *N/A.*

Other data sources used to aid in this determination:

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

B. Typical year assessment(s): Ground photographs of ED-1 show an ephemeral channel with an obscured ordinary high-water mark. The channel shows no evidence of sediment deposition and is free of hydrophytic vegetation and algae which we typically find in low gradient intermittent and

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perennial streams in this region. ED-1 appears to have been constructed in upland to drain storm water surface runoff away from adjacent businesses and transportation corridor.

A typical year assessment was performed using the Corps' Antecedent Precipitation Tool (APT). According to the APT, all aerial images of ED-1 taken from Google Earth and Digital Globe under "normal" rainfall conditions during the "wet season," the channel is completely dry. According to paragraph (b)(3) of the rule, ephemeral water features that flow or pool only in direct response to precipitation are excluded. Based on a weight of evidence from available information, as well as the information on climatic conditions compiled by the Corps' APT, we have determined that ED-1 is an ephemeral feature, excluded under paragraph (b)(3) of the rule.

- C. Additional comments to support AJD:** Review of available information indicates that ED-1 flows only in direct response to precipitation (e.g., rain or snow fall). There is no information available to indicate that the subject ephemeral channel flows continuously seasonally and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated). No adjacent or abutting wetlands which could contribute water were identified. This data supports the conclusion that ED-1 is ephemeral and not seasonally intermittent.

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I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): April 6, 2021

ORM Number: SPK-2002-00685

Associated JDs: N/A

Review Area Location¹:

State/Territory: CA City: Roseville County: Placer County

Center Coordinates of Review Area: Latitude 38.817823 Longitude -121.348617

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
ID1	0.622 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID1 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River, and is augmented by summer irrigation water and urban storm water run-off.
ID2	0.107 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID2 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River,

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			and is augmented by summer irrigation water and urban storm water run-off.
ID3	1.346 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID3 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River, and is augmented by summer irrigation water and urban storm water run-off.
ID4	0.034 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID4 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River, and is augmented by summer irrigation water and urban storm water run-off.
ID5	0.032 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID5 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River, and is augmented by summer irrigation water and urban storm water run-off.
ID6	0.067 acres	(a)(2) Intermittent tributary contributes surface water flow directly or indirectly to an (a)(1) water in a typical year	ID6 is an unnamed intermittent tributary to Pleasant Grove Creek, an (a)(2) water, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via Cross Canal. The intermittent stream is located approximately 15 miles east of the Sacramento River, and is augmented by summer irrigation water and urban storm water run-off.

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
SW511	0.075 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	SW511 meets the definition of paragraph (c)(16) and directly abuts ID3, an (a)(2) water. SW511 is a remnant oxbow, which receives flood flows from ID3 in a typical year. SW511 is an (a)(4) water because it directly abuts an (a)(2) water and is inundated by flooding from an (a)(2) water in a typical year.
SWS151	0.004 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	SWS151 meets the definition of paragraph (c)(16) and directly abuts ID3, an (a)(2) water. SWS151 is an (a)(4) water because it directly abuts an (a)(2) water.
VP103	0.092 acres	(a)(4) Wetland abuts an (a)(1)-(a)(3) water	VP103 meets the definition of paragraph (c)(16) and has a continuous physical surface connection to SWS151 such that upland boundaries, dikes, barriers, or other structures cannot distinguish or delineate it as physically separated. Therefore, VP103 is an (a)(4)

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			water because it is physically interconnected with SWS151, an (a)(4) water.
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D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12))⁴:

Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination
N/A	N/A	N/A	N/A

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: *Data sheets provided by the consultant dated, March 3, 2021, and an Aquatic Resources Delineation Map dated, March 15, 2021.*

This information is sufficient for purposes of this AJD.

Rationale: *N/A.*

Data sheets prepared by the Corps: *N/A.*

Photographs:

1) *Ground photos taken by the Corps in the field on February 19, 2021.*

2) *Aerial Imagery: Google Earth 7.3.3.7692. Image Dates: December 1, 2002, December 31, 2004, March 30, 2011, April 18, 2014, April 16, 2015, October 25, 2016, April 19, 2017, and February 1, 2018. Roseville, California. Latitude 38.806°N, Longitude -121.308°W, eye alt 500 – 4,100 ft. Retrieved February 15, 2021, from <http://www.earth.google.com>*

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Corps Site visit(s) conducted on: *19 FEB 2021.*

Previous Jurisdictional Determinations (AJDs or PJDs): *SPK-2002-00685, delineation verification dated August 6, 2003 and Preliminary JD dated March 25, 2015.*

Antecedent Precipitation Tool: *N/A*

USDA NRCS Soil Survey: *N/A*

USFWS NWI maps: *National Wetland Inventory. Project area: Roseville, California. Source imagery date: 1983. Washington, D.C.: U.S. Fish and Wildlife Service, Dept. of the Interior. Retrieved February 15, 2021, from Wetland Mapper: <https://www.fws.gov/wetlands/data/mapper.html>.*

USGS topographic maps: *United States Geological Survey. 1:24 000-Scale Metric Topographic Map. Pleasant Grove Quadrangle, California. 7.5-Minute Series. Reston, Va: U.S. Department of the Interior. 2018. United States Geological Survey. 1:24 000-Scale Metric Topographic Map. Roseville Quadrangle, California. 7.5-Minute Series. Reston, Va:*

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U.S. Department of the Interior. 2018.

Other data sources used to aid in this determination:

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

B. Typical year assessment(s): N/A.

C. Additional comments to support AJD: Intermittent drainage (ID) features 1 through 5 are portions of the same unnamed tributary flowing through the southeast corner of the property. This unnamed tributary is shown as a blue line intermittent stream on the *Roseville CA 2018 USGS topographic quadrangle map* and shows evidence of sediment deposition, hydrophytic vegetation, and algae which we typically find in low gradient intermittent streams in this region. The unnamed tributary flows to Pleasant Grove Creek, which is a tributary to the Sacramento River, an (a)(1) water of the U.S., via the Cross Canal. Seasonal flows within the tributary are augmented by summer irrigation water and urban storm water run-off. Wetland features SW511 and SWS151 directly abut ID3, an (a)(2) water, which make them both (a)(4) waters. Since VP103 is physically interconnected to SWS151, it too is an (a)(4) water.

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I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): April 6, 2021

ORM Number: SPK-2002-00685

Associated JDs: N/A

Review Area Location¹:

State/Territory: CA City: Roseville County: Placer County

Center Coordinates of Review Area: Latitude 38.817823 Longitude -121.348617

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

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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
ED1 – ED5	5.602 acres / 25,386 linear feet	(b)(3) Ephemeral feature, including an ephemeral stream, swale, gully, rill, or pool	Ephemeral drainage features 1 through 5 flow only in direct response to precipitation (e.g., rain or snowfall). Specifically, they drain surface water from adjacent upland and wetland complexes, and flow only in response to localized storm events with 3 or more inches of rain within the past 14 days. These ephemeral drainage features do not convey seasonal or perennial flows.
SW1 – SW510	23.831 acres	(b)(1) Non-adjacent wetland	Seasonal wetland features 1 through 510 meet the definition of paragraph (c)(16); however, they do not abut, nor are they inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor are they physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the seasonal wetland features and a paragraph (a)(1) – (a)(3) water in a typical year.
SWA1 – SWA112	13.619 acres	(b)(1) Non-adjacent wetland	Seasonal wetland abandoned rice field features 1 through 112 meet the definition of paragraph (c)(16); however, they do not abut, nor are they inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor are they physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the seasonal wetland abandoned rice field features and a paragraph (a)(1) – (a)(3) water in a typical year.
SWS1 – SWS189	26.573 acres	(b)(1) Non-adjacent wetland	Seasonal wetland swale features 1 through 189 (excluding feature SWS151) meet the definition of paragraph (c)(16); however, they do not abut, nor are they inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor are they physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the seasonal wetland swale features and a paragraph (a)(1) – (a)(3) water in a typical year.
VP1 – VP115	11.537 acres	(b)(1) Non-adjacent wetland	Vernal pool features 1 through 115 (excluding feature VP103) meet the definition of paragraph (c)(16); however, they do not abut, nor are they inundated by flooding from, an (a)(1) – (a)(3) water in a typical year, nor are they physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. Furthermore, there is no hydrologic surface water connection between the vernal pool features and a paragraph (a)(1) – (a)(3) water in a typical year.

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III. SUPPORTING INFORMATION

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This information is sufficient for purposes of this AJD.

Rationale: *N/A.*

Data sheets prepared by the Corps: *N/A.*

Photographs:

1) *Ground photos taken by the Corps in the field on February 19, 2021.*

2) *Aerial Imagery: Google Earth 7.3.3.7692. Image Dates: December 1, 2002, December 31, 2004, March 30, 2011, April 18, 2014, April 16, 2015, October 25, 2016, April 19, 2017, and February 1, 2018. Roseville, California. Latitude 38.806°N, Longitude -121.308°W, eye alt 500 – 4,100 ft. Retrieved February 15, 2021, from <http://www.earth.google.com>*

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Antecedent Precipitation Tool: *N/A*

USDA NRCS Soil Survey: *N/A*

USFWS NWI maps: *National Wetland Inventory. Project area: Roseville, California. Source imagery date: 1983. Washington, D.C.: U.S. Fish and Wildlife Service, Dept. of the Interior. Retrieved February 15, 2021, from Wetland Mapper: <https://www.fws.gov/wetlands/data/mapper.html>.*

USGS topographic maps: *United States Geological Survey. 1:24 000-Scale Metric Topographic Map. Pleasant Grove Quadrangle, California. 7.5-Minute Series. Reston, Va: U.S. Department of the Interior. 2018. United States Geological Survey. 1:24 000-Scale Metric Topographic Map. Roseville Quadrangle, California. 7.5-Minute Series. Reston, Va: U.S. Department of the Interior. 2018.*

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.

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- B. Typical year assessment(s):** A typical year assessment was performed using the Corps' Antecedent Precipitation Tool (APT). According to the APT, a majority of aerial images of the ephemeral drainages taken from *Google Earth* and *Digital Globe* under "normal" antecedent rainfall conditions during the "wet season," reveal several stretches of no water and several areas of standing water (pooled), but no seasonal flow. Eight out of ten "wet season" aerial photos taken under "normal or wetter than normal" antecedent precipitation conditions, captured no seasonal flow. On several occasions where the site received 3 -10 inches of rain within the past 14 days, which is an above average amount of rain for that amount of time, the drainages appear to contain flowing water. Typical for the arid West, this flow is a direct result of multiple, individual storm events during the monsoon season. However, monsoon floodwaters are responsible for locally recharging the riparian aquifer through bank infiltration and supply sustained base flow to streams in the arid West when it is not raining or has not recently rained. Such streams would meet the rule's definition of "intermittent" if they flow seasonally. None of the aerial images taken during the "dry season" under "normal drought and rainfall conditions" captured seasonal flow. Based on a weight of evidence from available information, as well as the information on climatic conditions compiled by the Corps' APT, we have determined that ephemeral drainage features ED1 through ED5 are excluded under paragraph (b)(3) of the rule.
- C. Additional comments to support AJD:** Review of available information indicates that ephemeral drainage features ED1 - ED5 flow only in direct response to localized storm events with 3 or more inches of rain within the past 14 days. There is no information available to indicate that these features flow continuously seasonally and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated). The grazing manager of the site for the past decade confirmed the absence of seasonal flow by noting that a roughly ½"-1" storm (which occur multiple times each year) will drain off the site in several days and a 2"- 4" storm (which occur roughly once in an average year) will fully drain off the site in about a week, leaving residual water in isolated pools within the drainages with no seasonal flow. Ground photographs of these features show an ephemeral channel with an obscured ordinary high-water mark in most locations and show no evidence of sediment deposition and are free of hydrophytic (riparian) vegetation and algae which typically occur in low gradient intermittent and perennial streams in this region. Portions of ED1 appear to have been straightened and/or manipulated to drain water off-of, and away from, adjacent rice fields. None of the ephemeral features are shown as blue line intermittent or perennial streams on either the *Roseville CA* or *Pleasant Grove CA* 2018 USGS topographic quadrangle maps. This data supports the conclusion that ephemeral drainage features ED1 – ED5 do not convey seasonal or perennial flows; and thus, are excluded under paragraph (b)(3) of the rule.

Seasonal wetland and vernal pool features occur throughout the site in the form of a wetland complex system. Underlying hard pan, or dura-pan, soil restricts their ability to percolate into the soil to reach groundwater. This restrictive soil layer causes low-lying areas or surface depressions to pool seasonally, in direct response to precipitation. These features remain saturated for a long enough

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period following rainfall to become dominated by hydrophytic species adapted to anaerobic conditions. These seasonal wetland and vernal pool features (except for SW511, SWS151, and VP103) drain through seasonal wetland swales, which drain into ephemeral features on the site. Since ephemeral drainages 1 through 5 are excluded under paragraph (b)(3), the seasonal wetland and vernal pool features are non-adjacent wetlands, excluded under paragraph (b)(1) of the rule. Furthermore, the intervening area between most vernal pools and ephemeral drainages is upland. Except for SW511, SWS151, and VP103, none of the seasonal wetland or vernal pool features abut, or are inundated by flooding from an, (a)(1) – (a)(3) water in a typical year, or are physically separated from an (a)(1) – (a)(3) water by a natural or artificial barrier. There is no hydrologic surface water connection between the seasonal wetland and vernal pool features and a paragraph (a)(1) – (a)(3) water in a typical year.

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