



**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): June 9, 2021.

ORM Number: [SPK-2020-00825](#).

Associated JDs: [N/A](#).

Review Area Location¹: State/Territory: [CA](#). City: [Stockton](#). County/Parish/Borough: [San Joaquin](#).

Center Coordinates of Review Area: Latitude [37.95586](#). Longitude [-121.37473](#).

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](#).
- 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. acres	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. acres	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. acres	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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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.	acres	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.	acres	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
DD2-14	0.45	acre	(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 feature is a manmade ditch, excavated in upland. It is not a relocated tributary, was not constructed in a tributary, and no part was constructed in an adjacent wetland or any other waters type.
FEW-14	1.7	acres	(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 feature is a manmade stormwater management feature that does not meet the definition of an (a)(1) or (a)(2) water. Specifically, the stormwater management feature is not a natural channel or a relocated tributary. While this feature can provide surface water flow to an (a)(1) water, flow is managed by a pump that is activated only to remove accumulated stormwater from the site.
QSA 1-20	6.13	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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
QSA 2-20	0.33	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.
QSA 3-20	0.27	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.
RPW-14	4.31	acres	(b)(10) Stormwater control feature constructed or excavated in upland or in a non-jurisdictional water to convey, treat, infiltrate, or store stormwater runoff.	The RPW-14 feature is a manmade stormwater management feature that does not meet the definition of an (a)(1) or (a)(2) water. Specifically, the stormwater management feature is not a natural channel or a relocated tributary. While this feature can provide surface water flow to an (a)(1) water, flow is managed by a pump that is activated only to remove accumulated stormwater from the site.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
RS 1-14	7.79	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.
RS 2-14	0.75	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.
RS 3-14	0.65	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.
RS 4-14	1.95	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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
RS 5-14	0.77	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.
RS 6-14	0.71	acre	(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.
RS 7-14	0.71	acre	(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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
RS 1-19	1.03	acre	(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.
RS 2-19	1.81	acre	(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.
RS 3-19	0.31	acre	(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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
RS 4-19	0.21	acre	(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.
SNHS 1-20	0.35	acre	(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.
SNHS 2-20	0.04	acre	(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.
SNHS 3-20	3.06	acre	(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.



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SNHS 4-20	14.66	acre	(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.
SNHS 5-20	0.45	acre	(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.
SNHS 6-20	3.66	acre	(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 1-14	0.77	acre	(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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
SW 2-14	4.19	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 1-19	1.43	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 2-19	1.73	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 3-19	0.10	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.



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Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size		Exclusion ⁵	Rationale for Exclusion Determination
SW 1-20	0.11	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.
WSA 1-20	1.92	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.
WSA 2-20	0.34	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.



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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: *Draft Jurisdictional Delineation, dated September 2020, prepared by Anchor QEA and located in the administrative record*

This information is sufficient for purposes of this AJD.

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

Data sheets prepared by the Corps: *Title(s) and/or date(s).*

Photographs:

Corps site visit(s) conducted on: *Date(s).*

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

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

USDA NRCS Soil Survey:

USFWS NWI maps: *SPK-2020-00825 NWI, located in the administrative record.*

USGS topographic maps: *SPK-2020-00825 USGS Quad Map, located in the administrative record.*

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.
FEMA/FIRM maps	SPK-2020-00825 FEMA Flood Hazard Zones, SPK-2020-00825 FEMA 100 Year, both saved to the administrative record.

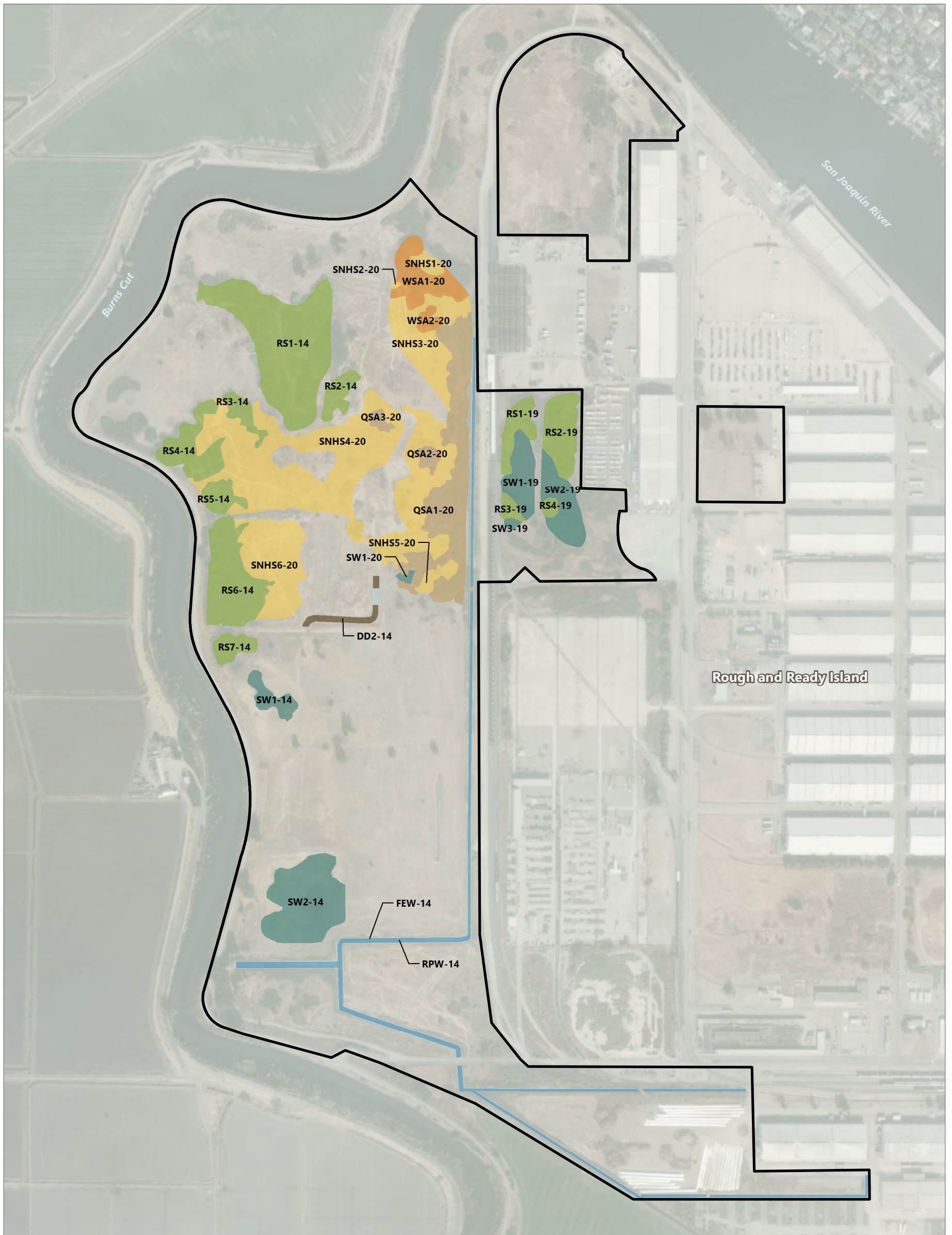
B. Typical year assessment(s): *N/A*

A. Additional comments to support AJD: *Between the 1860s and 1900, the islands of the Delta had levees constructed of peat to create cropland. These levees have been continuously maintained and improved. The island was farmed from then until about 1927. In 1927, Congress authorized funding for the port of Stockton Deep Water Ship Channel which brought three different railroads and two oil companies to the island. The oil companies utilized oil-water separators which caused contamination of the soils. The Rough and Ready Island was further developed in 1944 by the U.S. Navy to be used as a supply depot, freight-car classification yard, in-transit reclassification storage, material redistribution center, voyage repair facilities, and eventually even housed a Prisoner of War (POW) camp. There were chemical spills and hazardous material landfills on the subject property which now require soil remediation. After World War II, the Naval Supply Annex became a Naval Communication Center before being decommissioned and transferred to the Port of Stockton.*



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The AJD review area subject property consists of the western undeveloped portion of Rough and Ready Island of approximately 225 acres and is bounded to the north, west, and south by a levee and to the east by the Port of Stockton. The entire perimeter of the island is bounded by a levee system with one stormwater pumping station located on the western portion of the island and within the review area. The stormwater pumping station is kept in the closed position until there is a weather event that requires accumulated precipitation to be pumped from the east to the west and into the Burns Cut, a TNW under section 10 of the RHA of 1899 and an (a)(1) water under section 404 of the CWA. The stormwater pumping station and ditch are stormwater control features constructed between 1947 and 1954 and used to convey stormwater runoff; however, these features are excluded under paragraph (b)(10) of the rule. Pumps create adjacency under the final rule when they are permanent features which allow for a direct hydrologic surface connection in a typical year through an artificial structure between a wetland and a paragraph (a)(1) through (3) water (85 FR 22316). However, none of the wetlands on the site abut or convey flows to these stormwater features or pumps. None of the wetlands abut, or are inundated by flooding from, an (a)(1) – (a)(3) water in a typical year. Furthermore, they are physically separated from an (a)(1) - (a)(3) water by artificial feature. None of the wetlands have a direct hydrologic surface connection in a typical year order to meet the adjacency criteria in the rule. None of the wetland features are subject to the ebb and flow of the tide, nor are they presently used, or have been used in the past, or may be susceptible to use to transport interstate or foreign commerce. A determination of navigability has not been made over these wetlands; thus, lateral jurisdiction over the entire surface of these waterbodies (wetlands) does not apply. Although portions of several of the wetlands currently fall below the Mean High Tide Line (MHTL), based on historical research performed for the site, the locations of the wetland below the MHTL is likely a condition of the land due to subsidence based on past agricultural practices, wind erosion, and oxidation; and thus, were never subject to the ebb and flow of the tide prior to development of the site. Furthermore, these wetlands cannot be TNWs or (a)(1) waters under the NWPR because they are excluded under paragraph (b)(1) of the rule. An AJD that relies upon a TNW determination must consider if the paragraph (b) exclusions apply before concluding that the subject water meets the definition of an (a)(1) water. A TNW that meets a paragraph (b) exclusion is not jurisdictional under the NWPR. For these reasons, we have concluded that the wetlands are neither navigable waters of the U.S. (section 10 of the RHA) or waters of the U.S (section 404 of the CWA).



Rough and Ready Island

LEGEND:

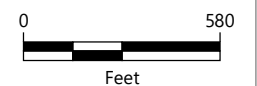
Study Area

Jurisdictional Features

- Poison hemlock or Pepperweed Patches (Semi-Natural Herbaceous Stands)
- Quailbush Scrub (Shrubland Alliance)
- Arroyo Willow Thickets (Shrubland Alliance)
- Riparian Scrub
- Freshwater Emergent Wetlands
- Seasonal Wetland
- Relatively Permanent Waters
- Drainage Ditch

NOTE:

Labels for each jurisdictional feature include two digits denoting the jurisdictional delineation year and source when the feature was identified ("19" for the 2019 Draft Jurisdictional Delineation of Rough and Ready Island (North and South Parcels), "14" for the 2014 Draft Jurisdictional Delineation Report Rough and Ready Island, and "20" for the 2020 Supplemental Field Investigation).



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Figure 2
Jurisdictional Features

Draft Jurisdictional Delineation
 Denmark Natural Soda Ash Export Terminal at the Port of Stockton



LEGEND:

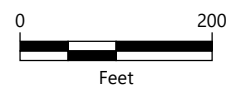
Study Area

Jurisdictional Features

- Poison hemlock or Pepperweed Patches (Semi-Natural Herbaceous Stands)
- Quailbush Scrub (Shrubland Alliance)
- Arroyo Willow Thickets (Shrubland Alliance)
- Riparian Scrub
- Freshwater Emergent Wetlands
- Seasonal Wetland
- Relatively Permanent Waters
- Drainage Ditch

NOTE:

Labels for each jurisdictional feature include two digits denoting the jurisdictional delineation year and source when the feature was identified ("19" for the 2019 Draft Jurisdictional Delineation of Rough and Ready Island (North and South Parcels), "14" for the 2014 Draft Jurisdictional Delineation Report Rough and Ready Island, and "20" for the 2020 Supplemental Field Investigation).

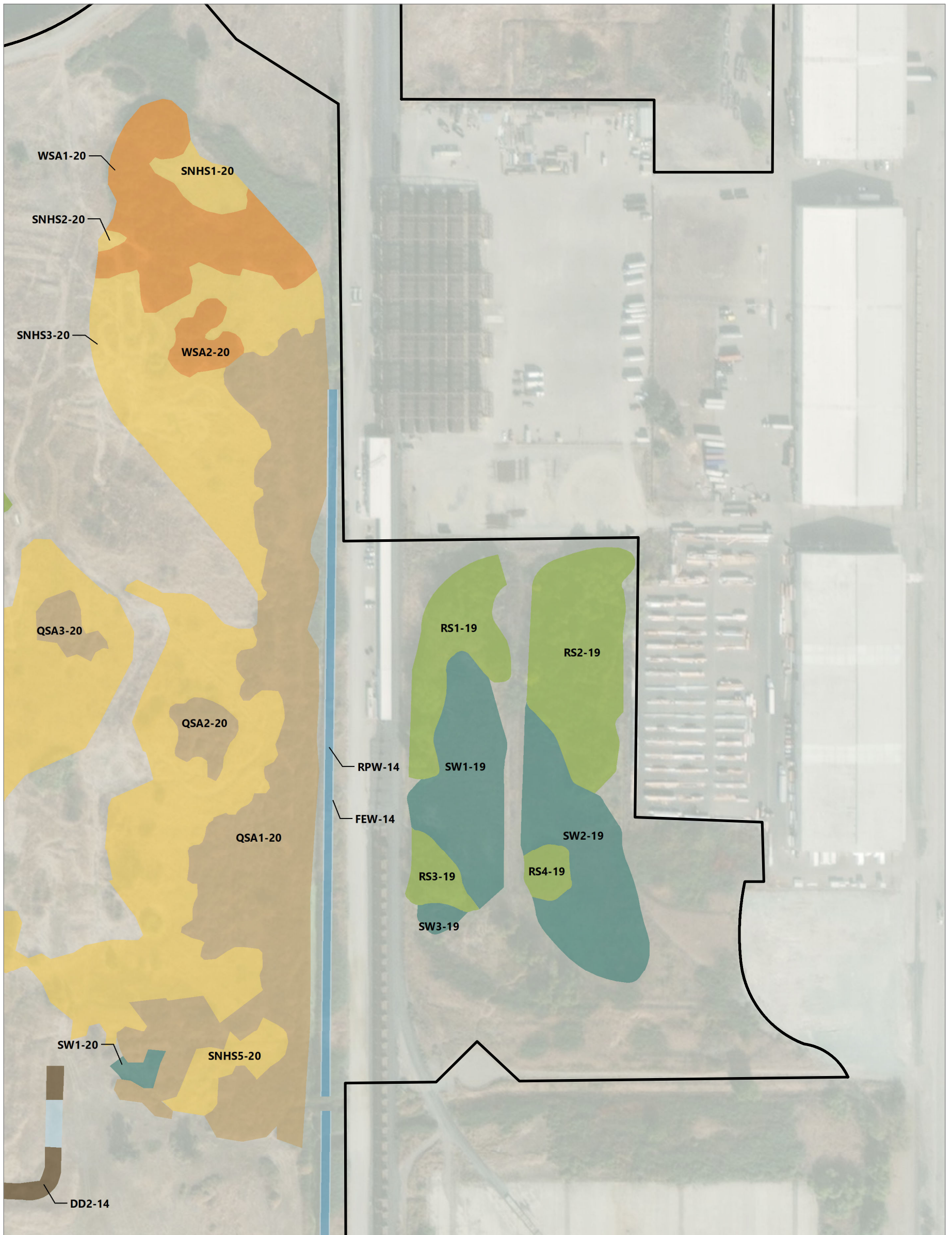


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Figure 3
Jurisdictional Features

Draft Jurisdictional Delineation
 Denmar Natural Soda Ash Export Terminal at the Port of Stockton

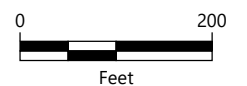


LEGEND:

- Study Area
- Jurisdictional Features**
- Poison hemlock or Pepperweed Patches (Semi-Natural Herbaceous Stands)
- Quailbush Scrub (Shrubland Alliance)
- Arroyo Willow Thickets (Shrubland Alliance)
- Riparian Scrub
- Freshwater Emergent Wetlands
- Seasonal Wetland
- Relatively Permanent Waters
- Drainage Ditch

NOTE:

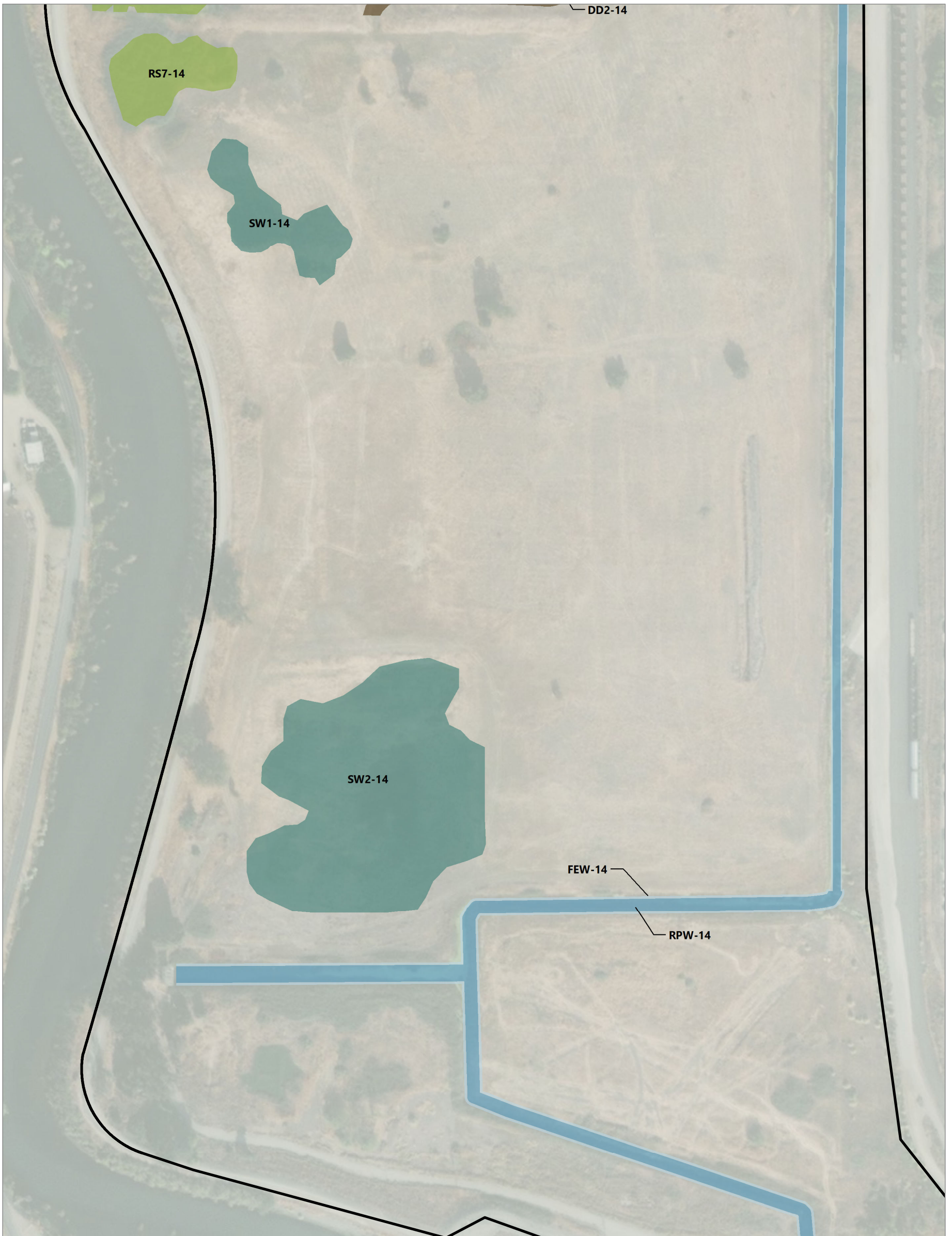
Labels for each jurisdictional feature include two digits denoting the jurisdictional delineation year and source when the feature was identified ("19" for the 2019 Draft Jurisdictional Delineation of Rough and Ready Island (North and South Parcels), "14" for the 2014 Draft Jurisdictional Delineation Report Rough and Ready Island, and "20" for the 2020 Supplemental Field Investigation).



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Figure 4
Jurisdictional Features
 Draft Jurisdictional Delineation
 Denmar Natural Soda Ash Export Terminal at the Port of Stockton

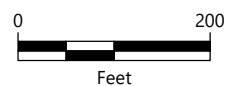


LEGEND:

- Study Area
- Jurisdictional Features**
- Poison hemlock or Pepperweed Patches (Semi-Natural Herbaceous Stands)
- Quailbush Scrub (Shrubland Alliance)
- Arroyo Willow Thickets (Shrubland Alliance)
- Riparian Scrub
- Freshwater Emergent Wetlands
- Seasonal Wetland
- Relatively Permanent Waters
- Drainage Ditch

NOTE:

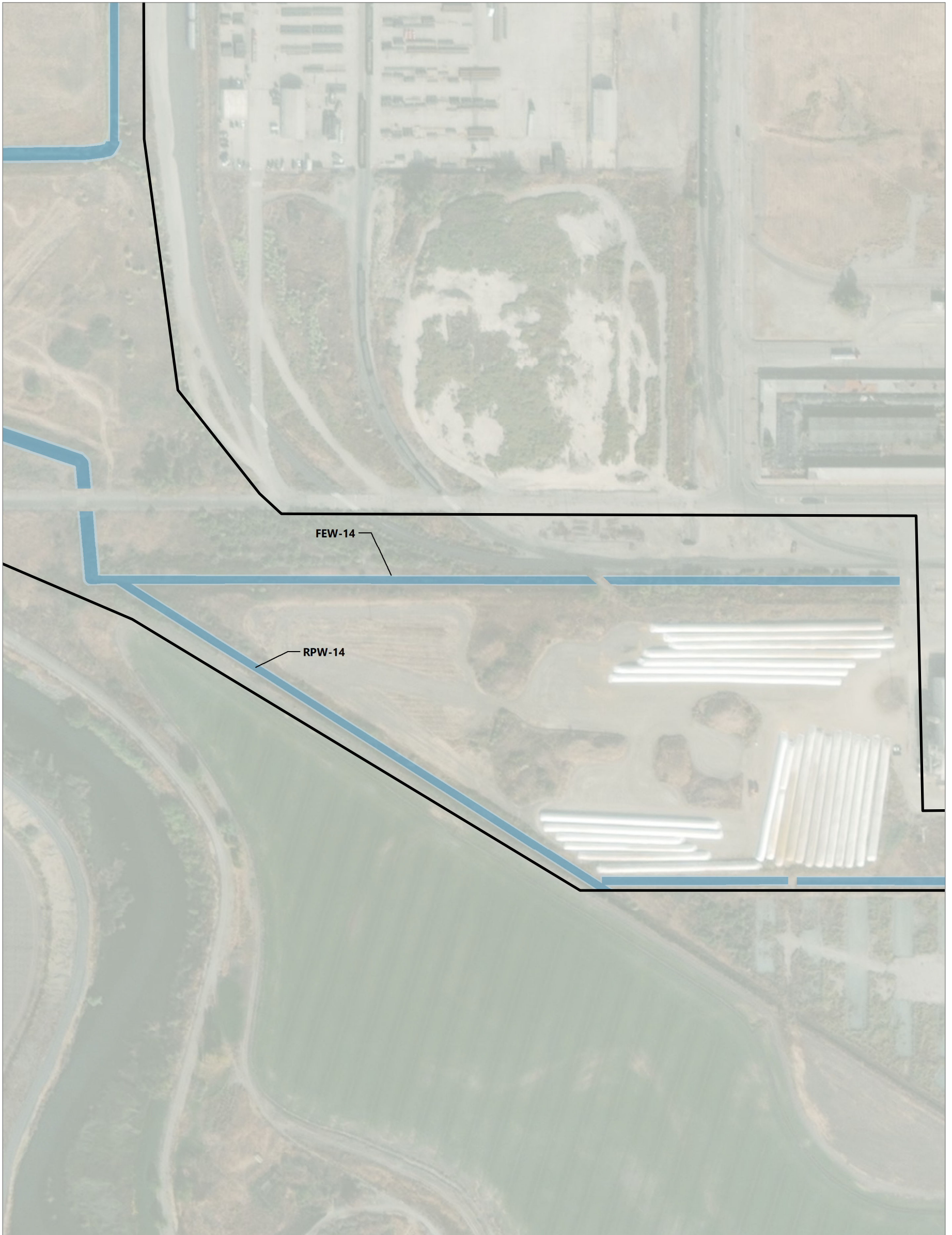
Labels for each jurisdictional feature include two digits denoting the jurisdictional delineation year and source when the feature was identified ("19" for the 2019 Draft Jurisdictional Delineation of Rough and Ready Island (North and South Parcels), "14" for the 2014 Draft Jurisdictional Delineation Report Rough and Ready Island, and "20" for the 2020 Supplemental Field Investigation).



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Figure 5
Jurisdictional Features
 Draft Jurisdictional Delineation
 Denmar Natural Soda Ash Export Terminal at the Port of Stockton

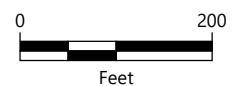


LEGEND:

- Study Area
- Jurisdictional Features**
- Poison hemlock or Pepperweed Patches (Semi-Natural Herbaceous Stands)
- Quailbush Scrub (Shrubland Alliance)
- Arroyo Willow Thickets (Shrubland Alliance)
- Riparian Scrub
- Freshwater Emergent Wetlands
- Seasonal Wetland
- Relatively Permanent Waters
- Drainage Ditch

NOTE:

Labels for each jurisdictional feature include two digits denoting the jurisdictional delineation year and source when the feature was identified ("19" for the 2019 Draft Jurisdictional Delineation of Rough and Ready Island (North and South Parcels), "14" for the 2014 Draft Jurisdictional Delineation Report Rough and Ready Island, and "20" for the 2020 Supplemental Field Investigation).



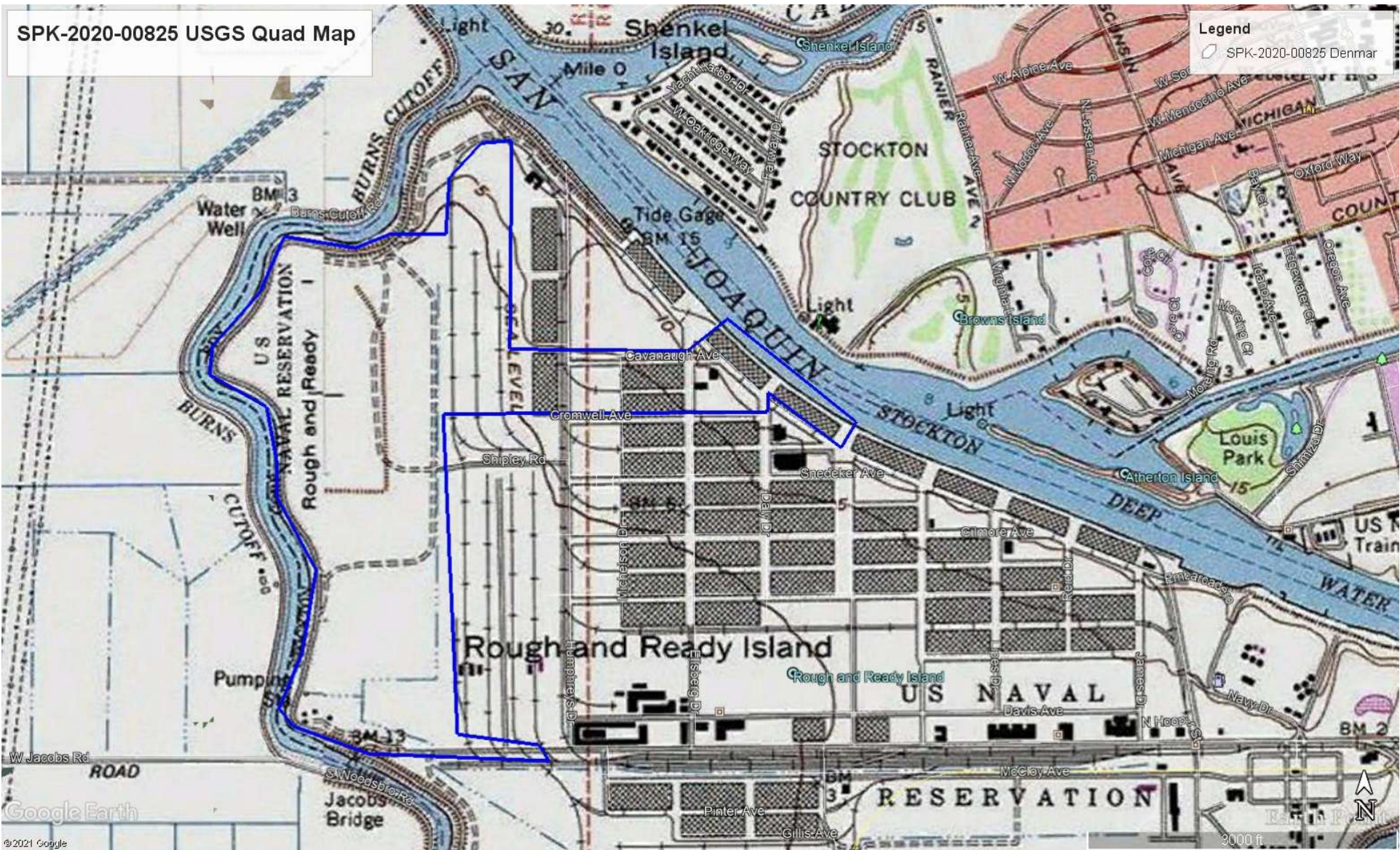
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 Filepath: \\orcas\gis\Jobs\Port_of_Stockton_0377\Maps\Denmar\WetDe\NAQ_Denmar_JurisdictionalFeatures.mxd



Figure 6
Jurisdictional Features
 Draft Jurisdictional Delineation
 Denmar Natural Soda Ash Export Terminal at the Port of Stockton

SPK-2020-00825 USGS Quad Map

Legend
SPK-2020-00825 Denmar



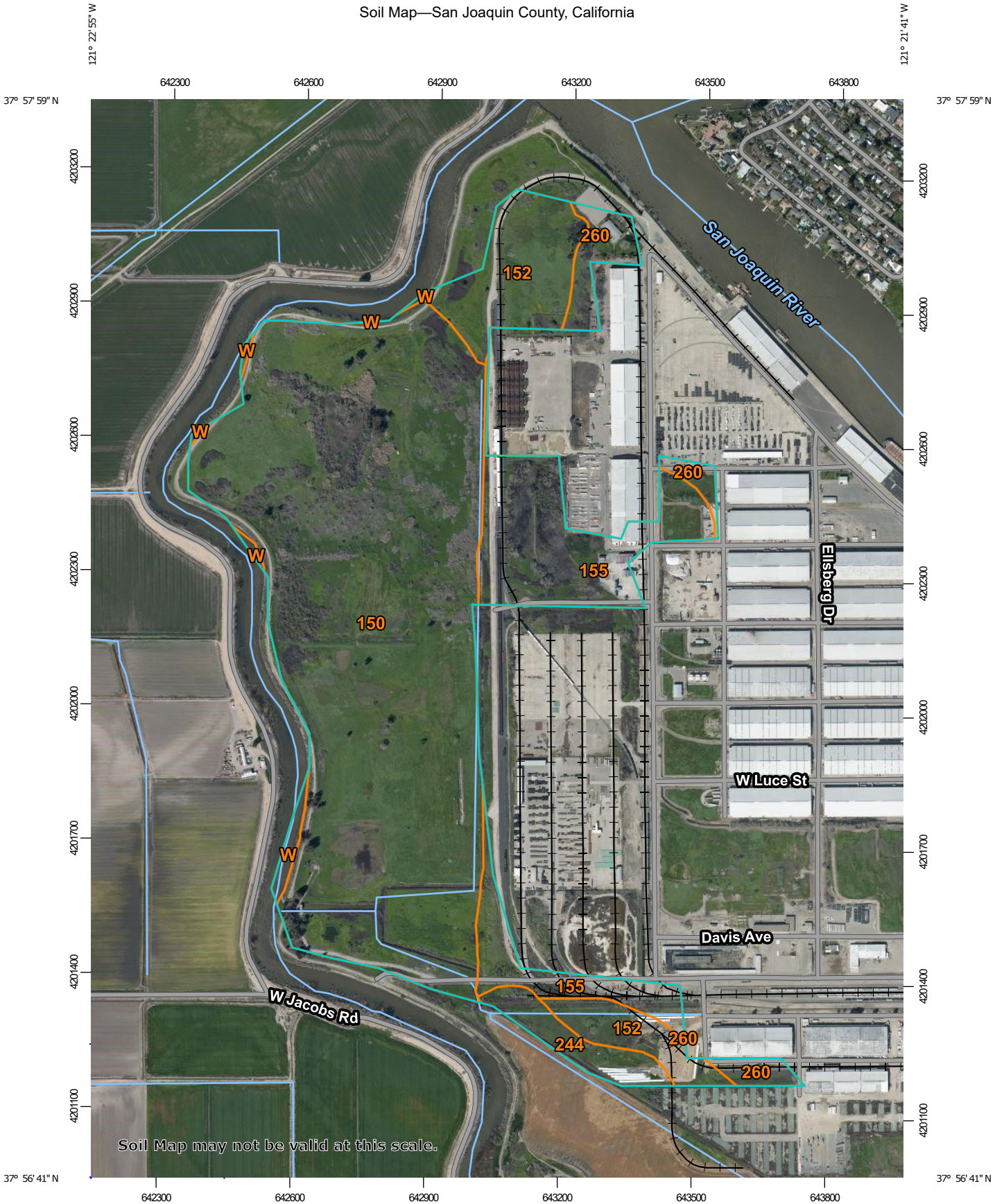
Google Earth

©2021 Google



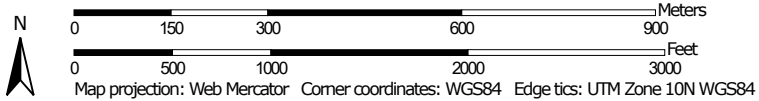
3000 ft

Soil Map—San Joaquin County, California



Soil Map may not be valid at this scale.

Map Scale: 1:11,700 if printed on A portrait (8.5" x 11") sheet.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Joaquin County, California

Survey Area Data: Version 14, May 29, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 11, 2019—Mar 14, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
150	Dumps	173.9	67.4%
152	Egbert mucky clay loam, partially drained, 0 to 2 percent slopes	26.2	10.1%
155	Egbert-Urban land complex, partially drained, 0 to 2 percent slopes	37.7	14.6%
244	Scribner clay loam, sandy substratum, partially drained, 0 to 2 percent slopes	7.4	2.9%
260	Urban land	10.2	4.0%
W	Water	2.5	1.0%
Totals for Area of Interest		257.9	100.0%

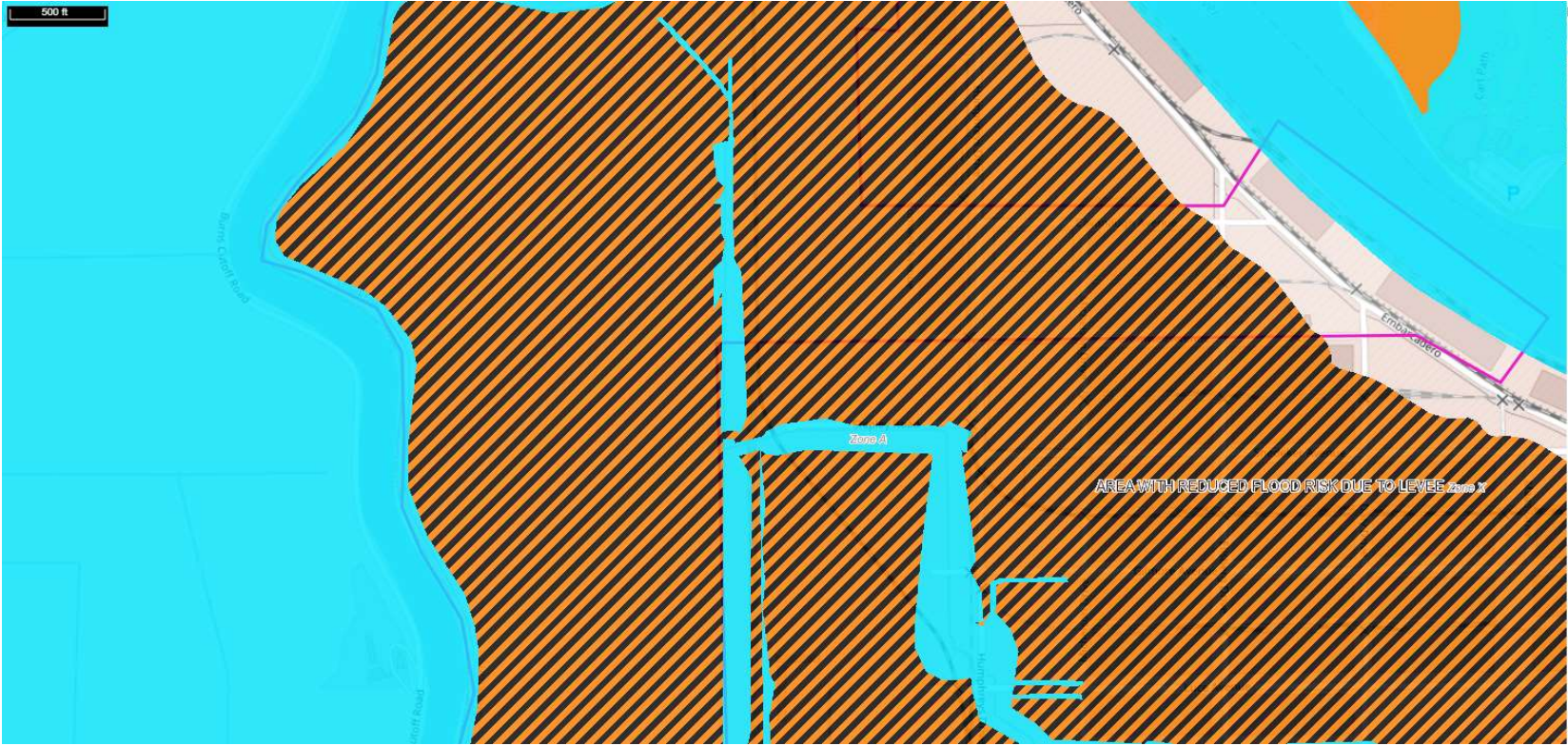
SPK-2020-00825 NWI

Legend

SPK-2020-00825 Denmar

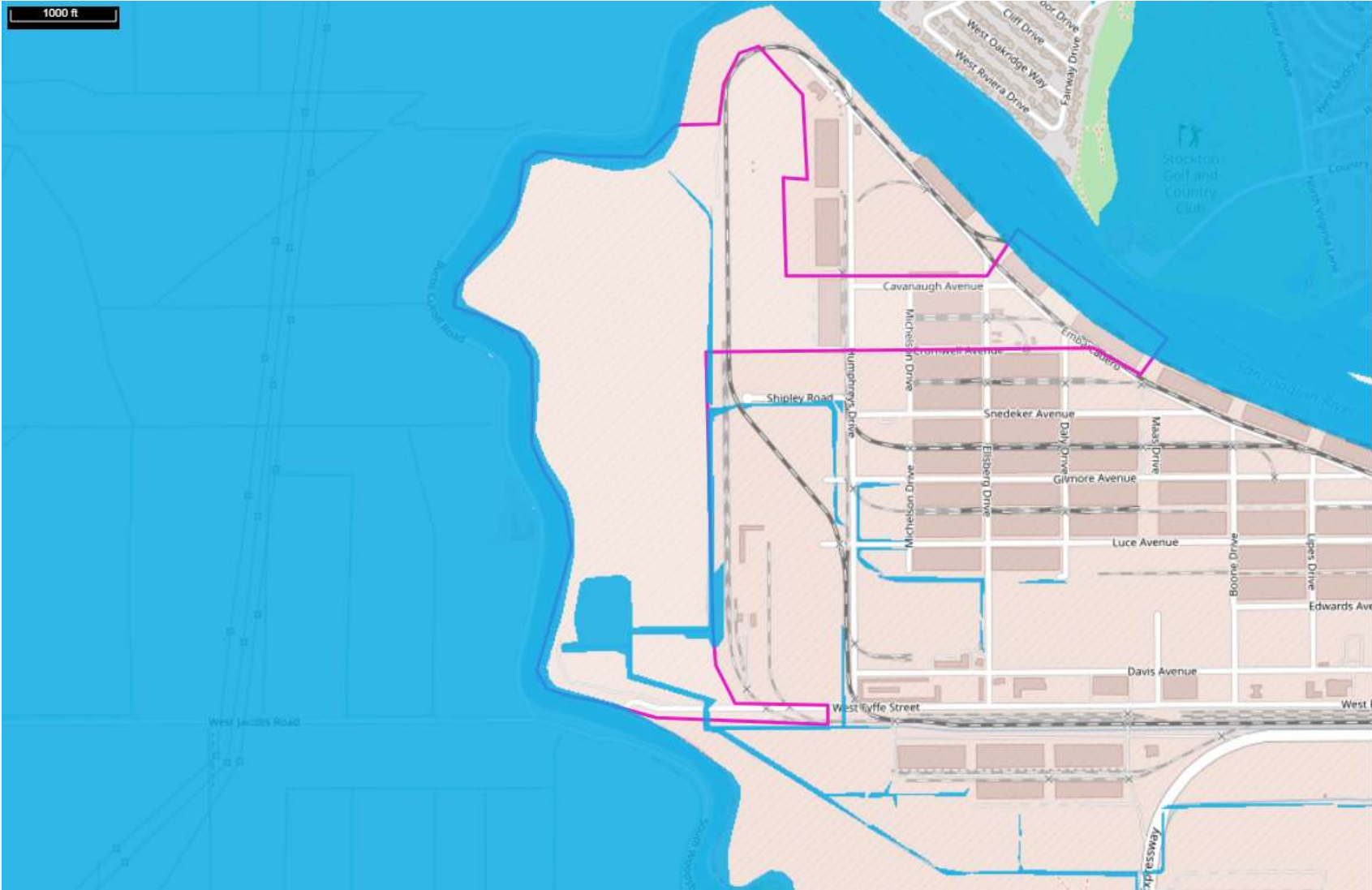


Wetland Types	
	Estuarine and Marine Deepwater
	Estuarine and Marine Wetland
	Freshwater Emergent Wetland
	Freshwater Forested/Shrub Wetland
	Freshwater Pond
	Lake
	Other
	Riverine



- Flood Hazard Zones**
- 1% Annual Chance Flood Hazard
 - Regulatory Floodway
 - Special Floodway
 - Area of Undetermined Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - Future Conditions 1% Annual Chance Flood Hazard
 - Area with Reduced Risk Due to Levee

1000 ft



FEMA 100yr Flood Zones
N/A