



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO CA 95814-2922

CESPK-RDC-N

20 December 2024

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Approved Jurisdictional Determination in accordance with the "Revised Definition of 'Waters of the United States'"; (88 FR 3004 (January 18, 2023) as amended by the "Revised Definition of 'Waters of the United States'; Conforming" (8 September 2023),¹ SPK-2021-00609.

1. BACKGROUND: An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.² AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.³

a. On January 18, 2023, the Environmental Protection Agency (EPA) and the Department of the Army ("the agencies") published the "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule"). On September 8, 2023, the agencies published the "Revised Definition of 'Waters of the United States'; Conforming", which amended the 2023 Rule to conform to the 2023 Supreme Court decision in *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023) ("*Sackett*").

b. This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. For the purposes of this AJD, we have relied on Section 10 of the Rivers and Harbors Act of 1899 (RHA),⁴ the 2023 Rule as amended, as well as other applicable guidance, relevant case law, and longstanding practice in evaluating jurisdiction.

¹ While the Revised Definition of "Waters of the United States"; Conforming had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² 33 CFR 331.2.

³ Regulatory Guidance Letter 05-02.

⁴ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

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2. SUMMARY OF CONCLUSIONS:

a. A list of each individual feature within the review area and the jurisdictional status of each one.

(1) The seasonal wetland Swale, SWS-1, is jurisdictional under Section 404.

(2) The seasonal wetland Swale, SWS-2, is non-jurisdictional.

(3) The vernal pools on the site, VP-1, VP-2, VP-3, VP-4, VP-5, VP-6, VP-7, VP-8, VP-9, VP-10, VP-11, VP-12, VP-13, VP-14, VP-15, VP-16, VP-17, VP-18, VP-19, VP-20, VP-21, VP-22, VP-23, VP-24, VP-25, VP-26, VP-27, VP-28, VP-29, VP-30, VP-31, VP-32, VP-33, VP-34, VP-35, VP-36, VP-37, VP-38, VP-39, VP-40, VP-41, VP-42, VP-43, VP-44, VP-45, VP-46, VP-47, VP-48, VP-49, VP-50, VP-51, VP-52, VP-53, VP-54, VP-55, and VP-56 are a wetland mosaic, which is consistent with 88 Fed. Reg. 3004 (January 18, 2023), and non-jurisdictional.

3. REFERENCES:

a. "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule")

b. "Revised Definition of 'Waters of the United States'; Conforming" 88 FR 61964-61969 (September 8, 2023)

c. *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023)

4. REVIEW AREA: The approximately 36.9-acre project site is located on 2120 University Avenue in the city of Rocklin, Latitude 38.81862°, Longitude -121.29604°, within Placer County, California (Enclosure 1). The area marked as "Study Area" in the enclosed map titled [REDACTED], is the review area discussed in this MFR.

5. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), THE TERRITORIAL SEAS, OR INTERSTATE WATER TO WHICH THE AQUATIC RESOURCE IS CONNECTED: The Sacramento River is the nearest downstream TNW (Enclosures 2). The Sacramento District identifies the Sacramento River as a navigable water of the United States pursuant to the Rivers and Harbors Act and 33 CFR Part 329 (i.e., a Section 10 Water) from Suisun Bay, an arm of the San Francisco Bay, to Keswick Dam, at river mile 301.6.

6. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, THE TERRITORIAL SEAS, OR INTERSTATE WATER:

a. The subject waters are geographically near Pleasant Grove Creek which flows approximately 19.68 miles west to a navigable stretch of the Sacramento River (Enclosure 2).

b. The wetland SWS-1 extends outside of the review area to the north for approximately 345 feet. At this point, topography of the area indicates that water from the swale continues to flow through a culvert, located at the approximate latitude 38.82051, longitude -121.29938, then flows north through a non-relatively permanent stream (Enclosure 3, ID-1) for approximately 355 feet before entering an unnamed relatively permanent stream (Enclosure 3, IS-1), which is the closest (a)(3) water (Enclosure 1, 2, and 3). This flow path is supported by a preliminary jurisdictional determination (PJD) which was completed by the Corps on the property directly to the north of the review area on June 13, 2023. This unnamed relatively permanent stream flows southwest for approximately 3.43 miles (18,095 feet) before entering Pleasant Grove Creek. Pleasant Grove Creek is a relatively permeant stream. Pleasant Grove Creek flows southwest approximately 19.68 miles (103,920 feet) before entering the Sacramento River.

c. Topography of the review area indicates that water from wetland SWS-2 drains to the north towards the unnamed relatively permanent stream (IS-1) which is outside of the review area. However, a continuous surface connection is not present (see section 9). The delineation map for the June 13, 2023, PJD for the property to the north shows that several wetlands are in-between SWS-1 and IS-1 (Enclosure 3), however it also shows that these aquatic resources are not abutting each other. From the unnamed relatively permanent stream, the flow path of SWS-2 follows the same path as SWS-1 described above.

d. The wetlands VP-1, VP-2, VP-3, VP-4, VP-5, VP-6, VP-7, VP-8, VP-9, VP-10, VP-11, VP-12, VP-13, VP-14, VP-15, VP-16, VP-17, VP-18, VP-19, VP-20, VP-21, VP-22, VP-23, VP-24, VP-25, VP-26, VP-27, VP-28, VP-29, VP-30, VP-31, VP-32, VP-33, VP-34, VP-35, VP-36, VP-37, VP-38, VP-39, VP-40, VP-41, VP-42, VP-43, VP-44, VP-45, VP-46, VP-47, VP-48, VP-49, VP-50, VP-51, VP-52, VP-53, VP-54, VP-55, and VP-56 are a wetland mosaic and do not have a continuous surface connection to an (a)(1), (a)(2), and(a)(3) water. Consistent with 88 Fed. Reg. 3004 (January 18, 2023), the wetlands generally act as a single ecological unit and function as a single wetland.

e. The review area is surrounded by road infrastructure on the western, eastern, and southern borders. The review area is higher than the surrounding roads on the south and east, and lower than the road on the west. Two culverts are present on the west side of the review area. Based on the topography of the area, these culverts carry water from the higher areas west of the review area into the review area.

f. A manmade rock lined drainage is also present in the southeast corner of the review area. The drainage connects to the storm water system at the approximate latitude 38.817340, longitude -121.292560. The manmade drainage is south of an elevated paved path that goes around the south and east sides review area. As result this feature does not provide a connection or flow path for any of the wetlands within the review area.

7. SECTION 10 JURISDICTIONAL WATERS⁵: Aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. N/A.

8. SECTION 404 JURISDICTIONAL WATERS: Aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the 2023 Rule as amended, consistent with the Supreme Court's decision in *Sackett*.

- a. Traditional Navigable Waters (TNWs) (a)(1)(i): N/A.
- b. The Territorial Seas (a)(1)(ii): N/A.
- c. Interstate Waters (a)(1)(iii): N/A.
- d. Impoundments (a)(2): N/A.
- e. Tributaries (a)(3): N/A.

(1) The unnamed relatively permanent stream to the north of the review area, IS-1, is an (a)(3) water as a tributary to the Sacramento River. The stream named IS-1 on the delineation for the property to the north of the review area. IS-1 is a first order reach that starts at the approximate latitude 38.82196 and longitude -121.29791 and ends at the approximate latitude 38.80342 and longitude -121.32248, where it enters Pleasant Grove Creek. This reach is approximately 3.43 miles (18,095 feet) long. Stream order was obtained from the National Hydrography Dataset (NHD). This stream is documented as intermittent in the NHD and riverine in the National Wetland Inventory (NWI). Water is also visible in the stream in aerial imagery. In particular, water can be seen in imagery from Digital Globe dated February 11, 2024, January 22, 2023, April 26, 2022, January 29, 2022, January 13, 2022, January 31, 2019,

⁵ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as "navigable in law" even though it is not presently used for commerce or is presently incapable of such use because of changed conditions or the presence of obstructions.

January 19, 2018, and February 14, 2017. Water can also be seen in sections throughout reach in Digital Globe imagery dated May 9, 2018, demonstrating that this stream contains water more than in direct response to precipitation. Additionally, the agent mapped and identified this stream as “intermittent” in the delineation that was used for the Corps’ June 13, 2023, PJD for SPK-2023-00275.

f. Adjacent Wetlands (a)(4):

(1) One of the wetlands within the review area, SWS-1, is an adjacent (a)(4) wetlands and as a result, a jurisdictional wetland. The wetland SW-1 is approximately 0.10-acre. The requester’s agent characterizes this as a wetland swale (Enclosure 1). This wetland is adjacent to the unnamed drainage to the north (IS-1), an (a)(3) water, through a continuous surface connection.

(2) The conclusion that SWS-1 shares a continuous surface connection to an unnamed (a)(3) water (IS-1) is consistent with Memoranda Memorandum on POH-2023-00187, NWK-2024-00392, LRB-2023-00451, NWK-2022-00809, SWG-2023-00284, and NAP-2023-01223. In total SWS-1, is approximately 745 feet from the unnamed (a)(3) water to the north. However, SWS-1 extends north of the review area for approximately 355 feet. SWS-1 then goes through a culvert that is approximately 50 feet long and then approximately 340 feet of a non-relativity permeant stream (ID-1) before reaching the (a)(3) water (IS-1). As a result, SWS-1 is approximately 390 feet from an (a)(3) water. A length which is consistent with the memoranda above. The June 13, 2023, PJD on the property to the north includes the features that provide the continuous surface connection of SWS-1 to the unnamed drainage to the north (Enclosure 2 and 3). As a result, it is known that these aquatic resources provide a continuous surface connection.

(3) The National Hydrography Dataset (NHD) and National Wetland Inventory (NWI) do not show any features in this location within the review area, including where SWS-1 is located.

g. Additional Waters (a)(5): N/A.

9. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES:

a. Aquatic resources and other features within the review area identified in the 2023 Rule as amended as not “waters of the United States” even where they otherwise meet the terms of paragraphs (a)(2) through (5) and determined to meet one of the exclusions listed in 33 CFR 328.3(b).⁶ N/A.

⁶ 88 FR 3004 (January 18, 2023)

b. Aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the 2023 Rule as amended (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water:

(1) The wetland SWS-2 is not adjacent to an (a)(1), (a)(2), or (a)(3) water, and as a result is non-jurisdictional. SWS-2 is surrounded by uplands without a discrete feature present. Although topography indicates that water from this wetland drains to the north and eventually reaches the unnamed relatively permanent stream to the north of the review area, there is no discrete feature that could provide a surface connection between SWS-2 and the stream. The delineation map from the June 13, 2023, PJD demonstrates that several aquatic resources are located in between SWS-2 and the nearest (a)(3) water, however the area in-between these resources is upland and without a discrete feature. During the Corps' November 12, 2024, site visit no discrete features leaving SWS-2 were observed. Additionally, no discrete features are visible in LiDAR or aerial imagery. Instead, the wetland is surrounded by upland grasslands.

(2) The wetland mosaic within the review area, consisting of VP-1, VP-2, VP-3, VP-4, VP-5, VP-6, VP-7, VP-8, VP-9, VP-10, VP-11, VP-12, VP-13, VP-14, VP-15, VP-16, VP-17, VP-18, VP-19, VP-20, VP-21, VP-22, VP-23, VP-24, VP-25, VP-26, VP-27, VP-28, VP-29, VP-30, VP-31, VP-32, VP-33, VP-34, VP-35, VP-36, VP-37, VP-38, VP-39, VP-40, VP-41, VP-42, VP-43, VP-44, VP-45, VP-46, VP-47, VP-48, VP-49, VP-50, VP-51, VP-52, VP-53, VP-54, VP-55, and VP-56, totals 0.46-acres. The wetland mosaic does not fit the "Waters of the United States" definition as it doesn't meet the requirements of a water identified in 33 CFR 328.3(a)(1) through (a)(3) and it does not possess a continuous surface connection to a jurisdictional water. This wetland was evaluated as a singular wetland.

(3) The area surrounding the wetland mosaic is upland and without a discrete feature to convey water. The wetland is surrounded by upland grassland. It is apparent after reviewing aerial imagery from Google Earth, Digital Globe, and LiDAR, in addition to the Corps' site visit, that no features that could provide a continuous surface connection are present. The review area is at a higher elevation than the roads that surround the site to the south, and east. Additionally, no discrete feature that could convey surface water from the wetland mosaic out of the review area is present in or around the review area.

(4) Prior land use within the review area resulted in several earthen manmade berms and soil mounds. Additionally, a graded area runs through the center of the site and along the boundary of the site. These changes to the review area did not add or remove the presence of a continuous surface connection.

(5) After a review of aerial imagery from GoogleEarth and Digital Globe, it appears the wetland mosaic is inundated around the same time during the wet season indicating the presence of a subsurface connection within the wetland mosaic. This is further supported by the soil mapped within the review area. A single soil unit is mapped where the wetland mosaic is located (NRCS 2024). This soil consists of very stony loam overlaying bedrock soil starting at 11 to 15 inches. The soil is described as somewhat excessively drained, with a depth to restrictive feature ranging from 11 to 15 inches.

(7) The unnamed non-relatively permanent stream to the north (ID-1) is not an (a)(3) water. The stream is named ID-1 on the delineation conducted for the property to the north of the review area (Enclosure 3). The reach starts at the approximate latitude 38.82058, longitude 121.29948 and ends at the approximate latitude 38.82145, longitude -121.29948. Water is not visible in the stream in aerial imagery from Digital Globe dated February 11, 2024, April 26, 2022, January 29, 2022, January 13, 2022, January 31, 2019, and May 9, 2018. Water is visible in some sections of the stream, less than 50 percent of the reach, in imagery from Digital Globe dated January 22, 2023, January 19, 2018, February 14, 2017. Although the agent for the June 13, 2023, PJD mapped this water as intermittent, aerial imagery indicates that the stream does not flow in more than in direct response to precipitation. The aquatic resource is also not present in the NWI or NHD.

10. DATA SOURCES: List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.

- a. U.S. Army Corps of Engineers. November 12, 2024, Field Site Evaluation.
- b. U.S. Army Corps of Engineers. October 25, 2024, and November 13, 2024, Office Evaluation.
- c. The September 11, 2024, *Aquatic Resources Delineation* [REDACTED] map supplied and prepared by [REDACTED]
- d. The Corps' previous Aquatic Resources Delineation Verification, Preliminary Jurisdictional Determination *SPK-2021-00609*, issued on February 11, 2022.
- e. The Corps' previous Aquatic Resources Delineation Verification, Preliminary Jurisdictional Determination *SPK-2023-00275*, issued on June 13, 2023.
- f. NRCS (October 30, 2024) Custom Soil Resource Report for Placer County, California, Western Part (SPK-2021-00609). Natural Resources Conservation Service,

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U.S. Department of Agriculture, retrieved from
<https://websoilsurvey.sc.egov.usda.gov/App/WebsoilSurvey.aspx>.

g. USFWS (n.d.) National Wetland Inventory. Project Area: Placer County, California. Source Imagery Date: 1984. Washington D.C.: U.S. Fish and Wildlife Service, Dept. of the Interior. Retrieved October 30, 2024, from Wetland Mapper: <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

h. FEMA (Effective November 2, 2018) Flood Map Service Center. National Flood Hazard Layer 06061C0933H. Federal Emergency Management Agency, U.S. Department of Homeland Security. Retrieved October 30, 2024, from <https://msc.fema.gov/portal/search?AddressQuery=-121.194838%2C%2038.786521>.

i. Google Earth 7.3.3.7692 (February 18, 2022, November 23, 2023, and February 27, 2024). Placer County, California, 38.81959 N, -121.29572° W, eye alt 2,649ft. Retrieved October 30, 2024, from <http://www.earth.google.com>.

j. Historic Aerials (2005, 2002, and 1984), Historic Aerial Viewer, NETRonline. Placer County, California, Latitude 38.8187°, Longitude -121.29558°. Retrieved October 31, 2024, from <http://www.historicaerials.com/viewer>.

k. *3DEP Imagery - Closeup (SPK-2021-00609)* [map], 1:450. Generated by the US Army Corps of Engineers, October 29, 2024.

l. *3DEP Imagery (SPK-2021-00609)* [map], 1:580. Generated by the US Army Corps of Engineers, October 29, 2024.

m. Digital Globe: Feb 11, 2024, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

n. Digital Globe: Jan 22, 2023, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

o. Digital Globe: April 26, 2022, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

p. Digital Globe: Jan 29, 2022, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

q. Digital Globe: Jan 13, 2022, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

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r. Digital Globe: Jan 31, 2019, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

s. Digital Globe: May 9, 2018, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

t. Digital Globe: Jan 19, 2018, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

u. Digital Globe: Feb 14, 2017, Imagery (SPK-2021-00609) [map]. 1:480. Generated by Army Corps of Engineers, October 29, 2024. Using ArcGIS Pro.

v. NHD: Downstream NHD Flow Path (SPK-2021-00609) [map]. 1:2,000. Generated by Army Corps of Engineers, November 21, 2024. Using ArcGIS Pro.

w. NHD: Flow Path Map Downstream to TNW [map]. 1:16,000. Generated by Army Corps of Engineers, November 21, 2024. Using ArcGIS Pro.

x. Geological Survey. 2023. National Geospatial Program, USGS National Hydrography Dataset Best Resolution (NHD) for Hydrological Unit (HU) 8 – 18020161. Shapefile: U.S. Geological Survey.

11. OTHER SUPPORTING INFORMATION.

a. There is one jurisdictional wetland within the 36.9-acre review area. The wetland SWS-1 is a jurisdictional (a)(4) wetland. This wetland is adjacent through a continuous surface connection to Pleasant Grove Creek, a relatively permanent (a)(3) tributary to the Sacramento River. This continuous surface connection is provided by a discrete feature via upland swale.

b. The remaining wetlands within the review area, SWS-2 and VP-1, VP-2, VP-3, VP-4, VP-5, VP-6, VP-7, VP-8, VP-9, VP-10, VP-11, VP-12, VP-13, VP-14, VP-15, VP-16, VP-17, VP-18, VP-19, VP-20, VP-21, VP-22, VP-23, VP-24, VP-25, VP-26, VP-27, VP-28, VP-29, VP-30, VP-31, VP-32, VP-33, VP-34, VP-35, VP-36, VP-37, VP-38, VP-39, VP-40, VP-41, VP-42, VP-43, VP-44, VP-45, VP-46, VP-47, VP-48, VP-49, VP-50, VP-51, VP-52, VP-53, VP-54, VP-55, and VP-56, are not adjacent wetland as they do not share a continuous surface connection to an (a)(1), (a)(2), or (a)(3) water. Lack of a continuous surface connection to an (a)(1), (a)(2), and (a)(3) water can be seen on the aerial imagery and LiDAR. Additionally, during the Corps' site visit no additional culverts or other features that could provide a continuous surface connection were observed.

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c. The Corps of Engineers' Antecedent Precipitation Tool (APT) indicated that the Corps' November 12, 2024, site visit occurred during the wet season, when three-month antecedent precipitation was within the range of normal, with the Palmer Drought Severity Index (PSDI) indicating moderate drought conditions regionally. The APT indicates that the agents February 21, 2021, site visit was conducted in the wet season, when the antecedent precipitation was within drier normal and there was a severe drought condition regionally. The February 11, 2024, January 22, 2023, January 29, 2022, January 13, 2022, January 31, 2019, January 19, 2018, and February 14, 2017, image from Digital Globe were helpful in this review as they were acquired in the wet season. The APT shows that the February 11, 2024, January 29, 2022, January 31, 2019, and January 19, 2018, Digital Globe Imagery was obtained when three-month antecedent precipitation was normal. The APT shows that the January 22, 2023, January 13, 2022, and February 14, 2017, Digital Globe Imagery was obtained when three-month antecedent precipitation was wetter than normal. The April 26, 2022, and May 9, 2018, image from Digital Globe were acquired in the dry season so they did not prove as helpful in this review. The February 27, 2024, November 23, 2023, and February 18, 2022, images from Google Earth were helpful in this review as they were acquired in the wet season.

d. The following memorandum were used to inform this review:

(1) Memorandum on NWK-2024-00392. November 21, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

(2) Memorandum on POH-2023-00187. November 20, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

(3) Memorandum on LRB-2023-00451. September 3, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

(4) Memorandum on NAP-2023-01223. June 25, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

(5) Memorandum on NWK-2022-00809. June 25, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

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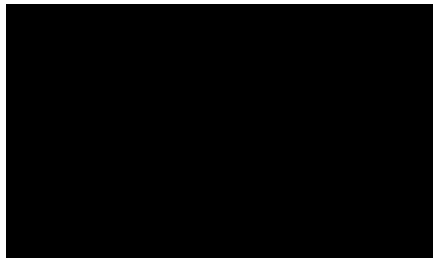
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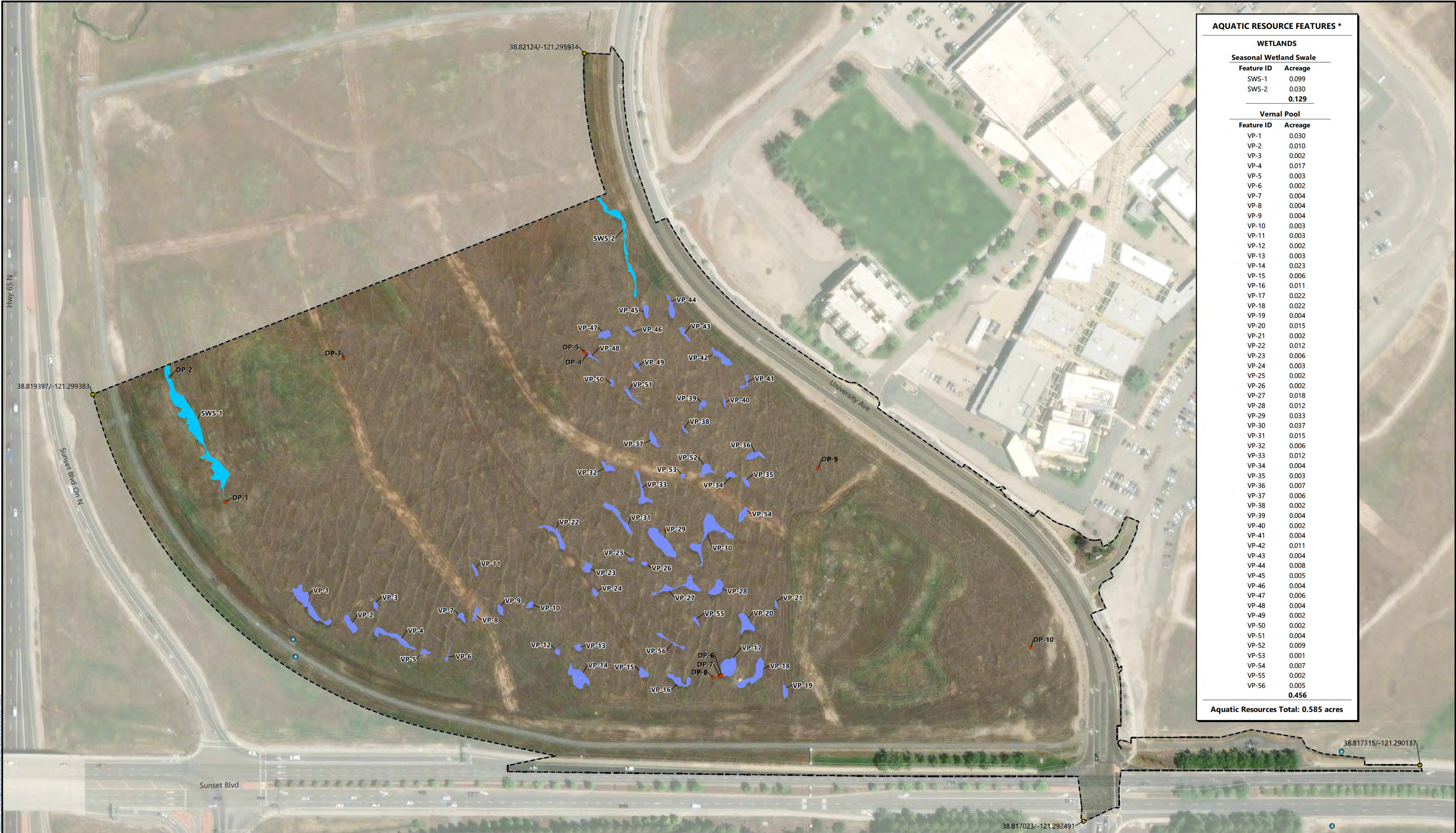
(6) Memorandum on SWG-2023-00284. June 25, 2024. U.S. Environmental Protection Agency and Office of the Assistant Secretary of the Army (Civil Works) U.S. Department of the Army.

12. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.

Enclosures

1. Aquatic Resources Delineation Map
2. Flow Path Maps
3. Aquatic Resources Delineation Map of property to the North





| AQUATIC RESOURCE FEATURES * | | |
|--------------------------------------|---------|--|
| WETLANDS | | |
| Seasonal Wetland Swale | | |
| Feature ID | Acreage | |
| SWS-1 | 0.099 | |
| SWS-2 | 0.030 | |
| | 0.129 | |
| Vernal Pool | | |
| Feature ID | Acreage | |
| VP-1 | 0.030 | |
| VP-2 | 0.010 | |
| VP-3 | 0.002 | |
| VP-4 | 0.017 | |
| VP-5 | 0.003 | |
| VP-6 | 0.002 | |
| VP-7 | 0.004 | |
| VP-8 | 0.004 | |
| VP-9 | 0.004 | |
| VP-10 | 0.003 | |
| VP-11 | 0.003 | |
| VP-12 | 0.002 | |
| VP-13 | 0.003 | |
| VP-14 | 0.023 | |
| VP-15 | 0.006 | |
| VP-16 | 0.011 | |
| VP-17 | 0.022 | |
| VP-18 | 0.022 | |
| VP-19 | 0.004 | |
| VP-20 | 0.015 | |
| VP-21 | 0.002 | |
| VP-22 | 0.012 | |
| VP-23 | 0.006 | |
| VP-24 | 0.003 | |
| VP-25 | 0.002 | |
| VP-26 | 0.002 | |
| VP-27 | 0.018 | |
| VP-28 | 0.012 | |
| VP-29 | 0.033 | |
| VP-30 | 0.037 | |
| VP-31 | 0.015 | |
| VP-32 | 0.006 | |
| VP-33 | 0.012 | |
| VP-34 | 0.004 | |
| VP-35 | 0.003 | |
| VP-36 | 0.007 | |
| VP-37 | 0.006 | |
| VP-38 | 0.002 | |
| VP-39 | 0.004 | |
| VP-40 | 0.002 | |
| VP-41 | 0.004 | |
| VP-42 | 0.011 | |
| VP-43 | 0.004 | |
| VP-44 | 0.008 | |
| VP-45 | 0.005 | |
| VP-46 | 0.004 | |
| VP-47 | 0.006 | |
| VP-48 | 0.004 | |
| VP-49 | 0.002 | |
| VP-50 | 0.002 | |
| VP-51 | 0.004 | |
| VP-52 | 0.009 | |
| VP-53 | 0.001 | |
| VP-54 | 0.007 | |
| VP-55 | 0.002 | |
| VP-56 | 0.005 | |
| | 0.456 | |
| Aquatic Resources Total: 0.585 acres | | |

Prepared For:
[Redacted]
[Redacted]
[Redacted]

Sources:
Aerial: Maxar, 26 April 2022
[Redacted]

Date Map Prepared: 11 September 2024

Made in accordance with the
Updated Map and Drawing Standards for the
South Pacific Division Regulatory Program,
as amended on February 10, 2016

* Small summation errors may occur due to rounding

Map Scale:
1 inch = 100 feet (at 20"x30")
Coordinate System
NAD 1983 State Plane California II
(U.S. Feet)



- Study Area (36.9 acres)
- Reference Point (NAD83)
- Culvert
- Data Point
- 1' Contour (NAVD88 U.S. Feet)

- Aquatic Resources (0.585 acre) *
- Wetlands (0.585 acre)
- Seasonal Wetland Swale (0.129 acre)
 - Vernal Pool (0.456 acre)

Aquatic Resources Delineation

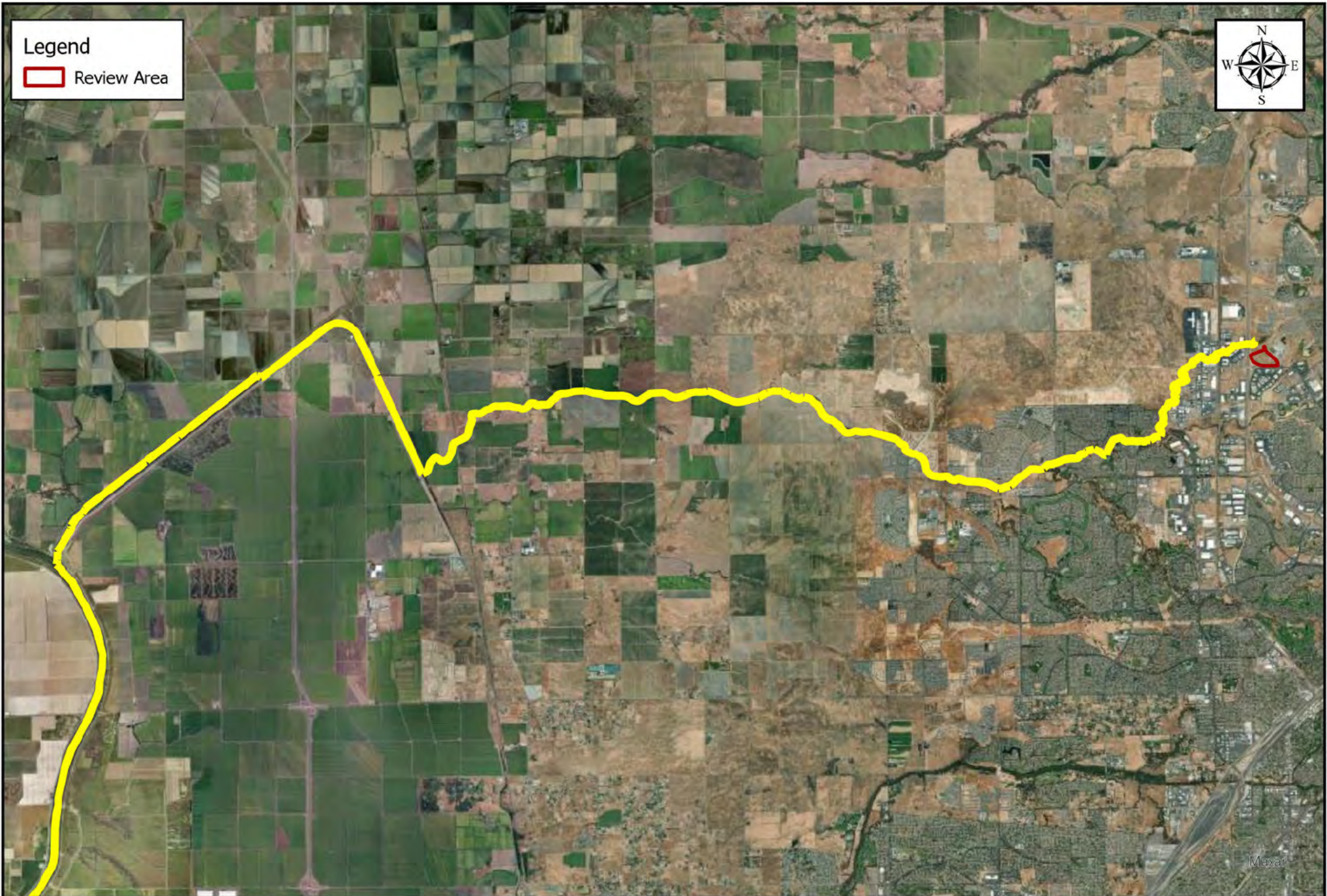
[Redacted]

Rocklin, Placer County, California

[Redacted]

Legend

 Review Area



Map Title/Description

**Downstream NHD Flow Path to TNW
(SPK-2021-00609)**

0 4,000 8,000 16,000



Feet

Map Center: 121.449275°W 38.801091°N

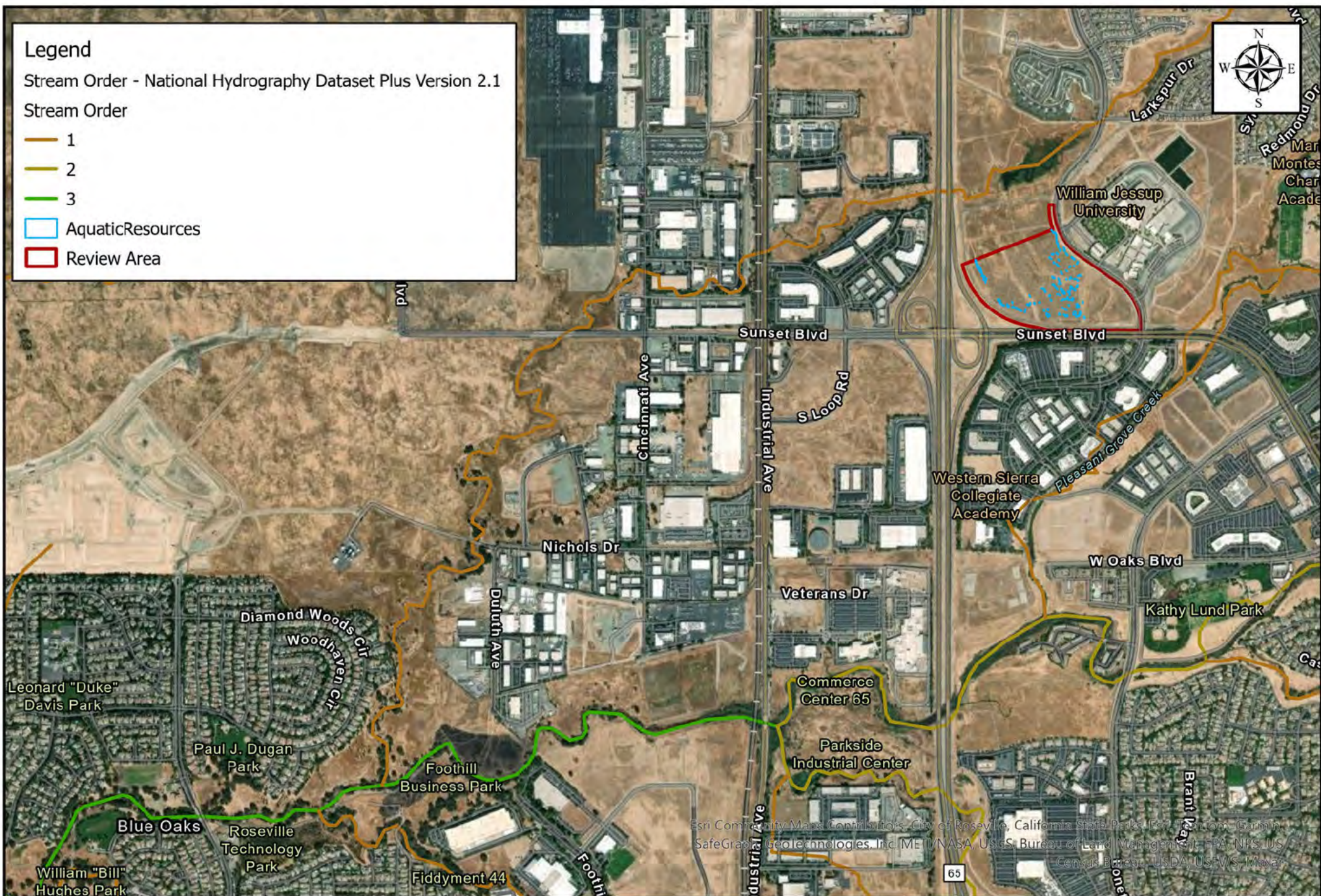
Coordinate System: NAD 1983 StatePlane California II
FIPS 0402 Feet

Legend

Stream Order - National Hydrography Dataset Plus Version 2.1

Stream Order

- 1
- 2
- 3
- AquaticResources
- Review Area



Map Title/Description

**Downstream NHD Flow Path
(SPK-2021-00609)**

0 500 1,000 2,000



Feet

Map Center: 121.311309°W 38.813646°N

Coordinate System: NAD 1983 StatePlane California II
FIPS 0402 Feet