Aquatic Resources Delineation Report (State and Federal Agencies)

Gorman-Kern River 66 kV Subtransmission Line Project

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Acronyms and Abbreviations

CDFW	California Department of Fish and Wildlife
CFR	Code of Federal Regulations
CWA	Clean Water Act
EPA	U.S. Environmental Protection Agency
FAC	facultative
FACW	facultative wetland
FEMA	Federal Emergency Management Agency
HUC	hydrologic unit code
I-	Interstate
kV	kilovolt
NHD	National Hydrography Dataset
NWI	National Wetlands Inventory
OHWM	ordinary high-water mark
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
proposed project	Gorman-Kern River 66 kV Subtransmission Line Project
RHA	Rivers and Harbors Act
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
SDAM	Stream Duration Assessment Method
SWRCB	State Water Resources Control Board
UPL	upland
USACE	U.S. Army Corps of Engineers
WoS	waters of the State
WoUS	waters of the United States

Executive Summary

In December 2023 and January 2024, ICF conducted a delineation of jurisdictional waters and wetlands for the Gorman-Kern River 66-kilovolt Subtransmission Line Project (proposed project). The proposed project had been previously delineated by Arcadis U.S., Inc. in October 2021; however, this survey was over 5 years old and did not evaluate the full study area needed for the proposed project, and soil pit data were not collected to confirm wetland boundaries. Therefore, this report includes the re-verification of all non-wetland waters and re-evaluation of all potential wetland waters within the study area.

The purpose of this delineation is to identify the extent of potentially jurisdictional wetland and non-wetland waters of the U.S. (WoUS) and waters of the State (WoS) ("aquatic resources") within and adjacent to the project site to support federal and state regulatory permitting processes. The proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads are collectively referred to as the "study area." Relevant jurisdictions include federal jurisdiction regulated by the U.S. Environmental Protection Agency and U.S. Army Corps of Engineers (USACE) as WoUS under Section 404 of the Clean Water Act (CWA), state jurisdiction regulated by the State Water Resources Control Board (SWRCB)/Regional Water Quality Control Board (RWQCB) as WoS under Section 401 of the CWA, SWRCB/RWQCB surface WoUS regulated under Section 13260 of the Porter-Cologne Water Quality Act, and California Department of Fish and Wildlife (CDFW) aquatic resources regulated under Section 1600 of the California Fish and Game Code. It is assumed that the applicant is seeking a Preliminary Jurisdictional Determination from USACE for features preliminarily determined to meet the revised definition of WoUS from the Conforming Rule (33 Code of Federal Regulations 328.3(a)(1)–(5)).

Based on the investigation and analysis documented in this report, potential CWA Section 404/401 aquatic resources within the study area are determined to be 9.541 acres (32,105 linear feet) of non-wetland WoUS and 1.718 acres (870 linear feet) of wetland WoUS subject to regulation by USACE and RWQCB. Additionally, approximately 20.152 acres (36,031 linear feet) of streambed and 0.822 acre (1,361 linear feet) of associated riparian vegetation subject to CDFW jurisdiction were mapped within the study area.

All figures are included as Appendix A. Site photographs are included as Appendix B. Ordinary high water mark data sheets, wetland determination forms, and Stream Duration Assessment Method forms are included as Appendices C, D, and E, respectively. Results calculations for each feature are included as Appendix F.

Chapter 1
Introduction

In December 2023 and January 2024, ICF conducted a routine-level aquatic resource delineation of potential non-wetland waters and wetlands for the Gorman-Kern River 66-kilovolt (kV) Subtransmission Line Project (proposed project) as part of the federal and state regulatory permitting process for Southern California Edison (SCE) in the cities of Bakersfield and Arvin and unincorporated areas in Kern and Los Angeles Counties, California (Appendix A, Figure 1). The study area comprises the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The limits of disturbance consist of the alignment, access roads, and proposed construction yards.

The purpose of this delineation is to identify the extent of potentially jurisdictional federal and state aquatic resources within and adjacent to the project site to support federal and state regulatory permitting processes pursuant to Sections 401 and 404 of the Clean Water Act (CWA) (33 U.S. Code 1251 et seq. [1972]) as well as Section 13260 of the Porter-Cologne Water Quality Control Act (Porter-Cologne Act), Section 1600 et seq. of the California Fish and Game Code. Section 404 of the CWA is administered by the U.S. Army Corps of Engineers (USACE) with oversight from the U.S. Environmental Protection Agency (EPA) and regulates the discharge of dredged or fill material within waters of the United States (WoUS), including wetland and non-wetland WoUS. Section 401 of the CWA is administered by the State Water Resources Control Board (SWRCB)/Regional Water Quality Control Board (RWQCB) and regulates at the state level all Section 404 activities that are regulated by USACE. The SWRCB/RWQCB may also regulate activities affecting non-federal wetland and non-wetland waters of the State (WoS) (e.g., surface waters, ephemeral features, isolated features) under the Porter-Cologne Act. Section 1600 et seq. of the California Fish and Game Code is administered by the California Department of Fish and Wildlife (CDFW) and regulates activities that may affect lakes, streams with a defined bed and bank, and/or associated riparian vegetation. If a proposed project has the potential to affect waters, wetlands, lakes, streams, and associated riparian vegetation, then the project site must be evaluated to determine the presence, type, and extent of aquatic resources. Details regarding each of these agencies, their regulatory authority, jurisdiction, permitting, and delineation methodologies are provided in Chapter 2, *Regulatory Background and Methodology by Agency*.

It is assumed that the applicant is seeking a Preliminary Jurisdictional Determination from USACE for features preliminarily determined to meet the revised definition of WoUS from the Conforming Rule (33 Code of Federal Regulations [CFR] 328.3(a)(1)–(5)) during the permit application process. All features preliminarily determined to not meet the revised WoUS definition have been categorized as SWRCB/RWQCB Porter-Cologne Act WoS.

The information and results presented herein document the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of our knowledge. However, all Jurisdictional Determinations should be considered preliminary until reviewed and approved by the regulatory agencies.

1.1 Project Description

The proposed project extends from the northern Kern River 1 Hydroelectric Substation located along California State Route 178 in the Kern River Canyon to the southern Gorman Substation. The proposed project also extends east to the Banducci Substation, southwest of the city of Tehachapi. The total length of the subtransmission line within the study area is approximately 66 miles.

The proposed project is split into five segments. Segment 1 is approximately 20.4 miles from the Kern River 1 Hydroelectric Substation to Structure M20-T3 and supports portions of the Gorman-Kern River and Banducci-Kern River 66 kV Subtransmission Lines. Segment 2 is approximately 26.5 miles from Structure M20-T3 to Structure M46-T6 and supports portions of the Gorman-Kern River 66 kV Subtransmission Line. Segment 3 is approximately 4.1 miles from Structure M46-T6 to the Gorman Substation and supports portions of the Gorman-Kern River and Frazier Park-Gorman 66 kV Subtransmission Lines. Segment 4 is approximately 11.3 miles from Structure M20-T3 to Structure M11-T3 and supports portions of the Banducci-Kern River 66 kV Subtransmission Line. Segment 5 is approximately 3 miles from Pole X7666E to the Banducci Substation and supports portions of the Banducci-Kern River 66 kV Subtransmission Line, distribution circuitry, and telecommunications infrastructure.

1.2 Project Location

The proposed project is primarily in Kern County within the cities of Bakersfield and Arvin and unincorporated areas. The southern terminus is in northern Los Angeles County. The northern end coordinates for the proposed project are 35.460333°N, -118.779528°W. The southern end coordinates for the proposed project are 34.790866°N, -118.827750°W. The eastern end coordinates for the proposed project are 35.101212°N, -118.601425°W (Appendix A, Figure 1). The proposed project is on the following U.S. Geological Survey 7.5-minute quadrangles: Rio Bravo Ranch, Edison, Arvin, Tejon Hills, Pastoria Creek, Grapevine, Frazier Mountain, Lebec, Bear Mountain, Tejon Ranch, and Cummings Mountain (Appendix A, Figure 2).

Chapter 2
Regulatory Background and Methodology by Agency

2.1 Desktop Research

Prior to the field delineation, all features previously mapped by another firm for the proposed project were identified for field verification of their presence, absence, or any changes to the features. Additionally, the study area was carefully reviewed in Google Earth (Google Earth 2024) in various scales and timeframes to determine if any new potentially jurisdictional features should be reviewed or if any previously identified features should be revisited and modified. It was determined that all potential wetland waters required field investigations and select non-wetland waters required re-evaluation throughout the study area.

The following resources were also reviewed to identify potential aquatic resources in the study area:

- Aerial imagery for various dates between 2017 and 2023 (Google Earth 2024)
- U.S. Geological Survey 7.5-minute Rio Bravo Ranch, Edison, Arvin, Tejon Hills, Pastoria Creek, Grapevine, Frazier Mountain, Lebec, Bear Mountain, Tejon Ranch, and Cummings Mountain topographic quadrangle maps (USGS 2021) (Appendix A, Figure 2)
- Watershed maps available from the National Hydrography Dataset (NHD) (USGS 2022) (Appendix A, Figure 3)
- Federal Emergency Management Agency (FEMA) 100-year floodplain maps (FEMA 2022) (Appendix A, Figure 4)
- NHD and U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) (USFWS 2021) data for the study area (Appendix A, Figure 4)
- U.S. Department of Agriculture, Natural Resources Conservation Service Soil Survey Geographic database (USDA/NRCS 2006) for the study area (Appendix A, Figure 5)

The above resources were used to identify approximate locations of potential aquatic resources subject to regulation by USACE, SWRCB/RWQCB, and CDFW within the study area and create focused areas for the field investigations. Figure 4 depicts NHD and NWI aquatic resources as well as the FEMA flood hazards in the vicinity of the study area.

In addition to the regionally available data (e.g., NWI, NHD, FEMA) ,the approximate location and extent of potential aquatic resources were identified on field maps based on changes in vegetation type and cover, topographic changes, and visible drainage patterns.

Portions of the study area were not accessible at the time of the surveys. This included the proposed construction yards and the access roads within the Tehachapi Mountains (eastern segment of the proposed project; Figures 6 and 7, Sheets 14–16). For these areas, potential aquatic resources were mapped via a thorough desktop review that included use of the resources above, as well as a review of historic aerials and topographic maps to identify any flow indicators or signatures that could occur in these areas.

2.2 Field Investigation and Mapping

ICF conducted the jurisdictional waters and wetland delineation for the study area in December 2023 and January 2024. Delineators conducted site visits from December 5 to December 8, 2023, to confirm existing conditions. ICF revisited sites on January 16, 2024, that were not able to be accessed in December. Table 1 shows the date, delineator(s), and purpose of each site visit.

Table 1. Jurisdictional Delineation Field Dates

Date	Delineators	Purpose
December 5, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 6, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 7, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 8, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
January 16, 2024	Kristen Klinefelter, Nicole Argueta	Jurisdictional Delineation

The field investigation was conducted in December 2023 and January 2024 within the study area, which is defined as the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The 100-foot-radius buffer around the subtransmission line structures was selected as an appropriate buffer considering the project scope, adjacent land use, and potential aquatic resources that may be affected by the proposed project.

During the field efforts, the study area was surveyed on foot where access was possible, and jurisdictional limits were recorded using ArcMap Collector on an iPad unit with an external global positioning system receiver providing sub-meter accuracy. If no access was possible, then jurisdictional features were delineated based on visual estimates and aerial photographs and then digitized in a geographic information system. Common plant species observed were identified by visual characteristics and morphology in the field. Taxonomic nomenclature for plants follows the *Jepson Manual: Vascular Plants of California*, 2nd edition (Baldwin et al. 2012) and the Arid West 2020 Regional Wetland Plant List (USACE 2022).

The December 2023 site visits were conducted for 17 to 20 days following a storm event that resulted in 0.01 inch of rain on November 18, 2023, and the January 2024 site visit was conducted 5 days following a storm event that resulted in 0.06 inch of rain on January 11, 2024, as recorded at the Bakersfield Airport, California monitoring station (National Weather Service 2024). Representative photos for features within the study area were taken to depict existing conditions (Appendix B).

The below subsections provide the regulatory background and aquatic resource delineation methods used per agency.

2.2.1 U.S. Army Corps of Engineers

USACE regulates activities proposed within navigable waters under Section 10 of the Rivers and Harbors Act (RHA) and WoUS under CWA Section 404. RHA Section 10 regulates work, structures,

obstructions, or alterations occurring within navigable WoUS, which is defined as those waters subject to the ebb and flow of the tide shoreward to the mean high-water mark and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. The proposed project site does not support tidal waters; therefore, RHA Section 10 is not discussed further.

The regulation defining the extent of WoUS has changed a number of times since enactment of the CWA. On January 18, 2023, EPA and USACE published the final rule with a revised definition of WoUS in the *Federal Register* (doc. 2022-28595), which became effective March 20, 2023. This rule replaced the pre-2015 definition of WoUS, which was recently in effect, starting on September 2, 2021.

On May 25, 2023, the U.S. Supreme Court decided *Sackett v. Environmental Protection Agency*, which considered the jurisdictional extent of WoUS. On August 29, 2023, the agencies issued a final rule to conform the definition of "waters of the United States" to the U.S. Supreme Court's May 25, 2023, decision in the case of *Sackett v. Environmental Protection Agency*. This definition established the scope of USACE and EPA authority under the CWA. The conforming rule, *Revised Definition of "Waters of the United States"; Conforming* (33 CFR 328.3(a)(1)–(5); USACE/EPA 2023), became effective September 8, 2023, and states the following.

a) *Waters of the United States* means:
    1) Waters which are:
        i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
        ii) The territorial seas; or
        iii) Interstate waters;
    2) Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under paragraph (a)(5) of this section;
    3) Tributaries of waters identified in paragraph (a)(1) or (2) of this section that are relatively permanent, standing or continuously flowing bodies of water;
    4) Wetlands adjacent to the following waters:
        i) Waters identified in paragraph (a)(1) of this section; or
        ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3) of this section and with a continuous surface connection to those waters;
    5) Intrastate lakes and ponds not identified in paragraphs (a)(1) through (4) of this section that are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3) of this section.

The categories of exclusions, or non-jurisdictional aquatic features, are listed in paragraph (b) of the new rule. Under this rule, where a feature satisfies the terms of an exclusion, it is excluded from jurisdiction even where the feature would otherwise be jurisdictional under paragraphs (a)(2)

through (5) of this rule. Paragraph (a)(1) waters are not subject to the exclusions. The exclusions, or non-jurisdictional waters, include:

(1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;

(2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;

(3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;

(4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;

(5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;

(6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;

(7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of [WoUS]; and

- Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

Wetlands are defined in 33 CFR 328.3(c)(1) as follows.

- The term "wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Adjacent is defined in 33 CFR 328.3(c)(2) as follows.

- The term "adjacent" means having a continuous surface connection.

The study area was analyzed for potential non-wetland and wetland WoUS using the following methodologies and guidance.

2.2.1.1 Delineation Methods for Clean Water Act Section 404 (Non-Tidal) Non-wetland Waters of the United States

Ordinary High Water Mark

Aquatic resources with a defined ordinary high-water mark (OHWM) would be considered potential non-wetland WoUS. USACE regulations at 33 CFR 328.3(c)(7) define OHWM as "the line on the shore established by the fluctuation of water and indicated by physical characteristics such as a clean natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the

characteristics of the surrounding areas" (88 *Federal Register* 3004–3144., January 18, 2022). The lateral limits of non-wetland WoUS were mapped using guidance provided in *Ordinary High Water Flows and the Stage-Discharge Relationship in the Arid West Region* (USACE 2011), *A Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States: A Determination Manual* (USACE 2008a), and Regulatory Guidance Letter 05-05 (USACE 2005).

ICF completed the 2010 Arid West Ephemeral and Intermittent Streams OHWM Datasheets for five representative non-wetland water features within the study area. Completed OHWM Datasheets are provided in Appendix C and the location of each OHWM sample point is depicted on Figure 6 (Appendix A). The OHWM Datasheet was completed following guidance provided in the *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2010). Common indicators of OHWM include changes in average sediment texture, break in slope, changes in vegetation species, and/or changes in vegetation cover.

Streamflow Duration Assessment Method

In addition to evaluating non-wetland conditions and delineating the lateral extent of potential non-wetland waters, ICF staff assessed streamflow duration following the Beta Arid West Streamflow Duration Assessment Method (SDAM) (Mazor et al. 2021). The purpose of the streamflow duration assessment is to determine whether the observed non-wetland waters support ephemeral or more persistent hydrology (e.g., intermittent, perennial).

The streamflow duration methodology evaluates field indicators related to vegetation, soil, aquatic invertebrates, algae, fish, surface water or saturation, channel structure, and several other indicators to determine the streamflow duration. The assessment is completed in the field using visual indicators over a period of one day. Long-duration measurements or monitoring, such as stream flow gauges, rain stations, or similar are not employed at the assessment area, although if available for the assessment area they can be used to help inform the field results.

ICF completed streamflow duration assessments on four representative non-wetland water features within the study area. These assessments were used as a guide in determining flow regimes (ephemeral or intermittent) for all other non-wetland water features across the study area. Assessments were completed on December 7 and 8, 2023, and weather consisted of clear to partly cloudy skies and temperatures in the low-/mid-60 degrees Fahrenheit. No significant rainfall occurred within 48 hours preceding the field evaluations for either survey date.

2.2.1.2 Delineation Methods for Clean Water Act Section 404 (Non-Tidal) Wetland Waters of the United States

Section 404 wetland WoUS consist of areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Normally, three criteria (parameters) must be satisfied to classify an area as a wetland: (1) a predominance of plant life that is adapted to life in wet conditions (hydrophytic vegetation); (2) soils that saturate, flood, or pond long enough during the growing season to develop anaerobic conditions in the upper part (hydric soils); and (3) permanent or periodic inundation or soils saturation, at least seasonally (wetland hydrology).

In areas that exhibited evidence of wetland hydrology and/or hydrophytic vegetation, wetland soil pits were established to examine soil color and texture and determine the wetland boundary. A paired-pit technique (i.e., one sample point with wetland results paired with one sample point with non-wetland results) was used to identify the wetland boundary. The wetland delineation was conducted pursuant to the 1987 *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and the 2008 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008b). *Field Indicators of Hydric Soils in the United States, Version 8.2*. (USDA/NRCS 2018) was used to identify hydric soil, vascular plants were identified using *The Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012), and nomenclature and associated wetland ratings follow the National Wetland Plant List (USACE 2022). Wetland determination forms are provided in Appendix D.

- *Hydrophytic Vegetation*: Present when the plant community is dominated by species that can tolerate prolonged inundation or soil saturation during the growing season (USACE 2008b). The following definitions are used by USACE to define a plant's likelihood of tolerating prolonged inundation or soil saturation during the growing season (Lichvar et al. 2012).
    - *Obligate* (OBL): Almost always occurs in wetlands
    - *Facultative Wetland* (FACW): Usually occurs in wetlands, but may occur in non-wetlands
    - *Facultative* (FAC): Occurs in wetlands and non-wetlands
    - *Facultative Upland* (FACU): Usually occurs in non-wetlands, but may occur in wetlands
    - *Upland* (UPL): Almost never occurs in wetlands

Based on guidance from USACE Los Angeles District staff over the last several years, aquatic resources meeting the 3-parameter wetland definition that are physically located between the lateral limits of the OHWM are to be classified as "non-wetland WoUS with wetland characteristics."

2.2.2 State Water Resources Control Board/Regional Water Quality Control Board

In California, the SWRCB and nine RWQCBs regulate activities within WoUS under Section 401 of the CWA and within WoS under the Porter-Cologne Act. The SWRCB defines WoS broadly to include "any surface water or groundwater, including saline waters, within the boundaries of the state."

2.2.2.1 Delineation Methods for Clean Water Act Section 401 Non-wetland Waters of the United States and Porter-Cologne Non-wetland Waters of the State

The SWRCB and RWQCBs do not have regulations or guidance for defining the extent of non-wetland WoUS or WoS. Therefore, the lateral limits of potential non-wetland WoUS and WoS were identified and delineated using the same methods for determining OHWM, per USACE, as described above in Section 2.2.1, *U.S. Army Corps of Engineers*, because they have generally been considered coincident.

2.2.2.2 Delineation Methods for Clean Water Act Section 401 Wetland Waters of the United States and Porter-Cologne Wetland Waters of the State

On April 2, 2019, the SWRCB adopted the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (SWRCB 2019). The procedures became effective on May 28, 2020, and define wetland WoS as follows:

> An area is a wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

The procedures provide that RWQCBs will rely on a wetland delineation from a final aquatic resources delineation report, as verified by USACE, to determine the extent of wetland WoUS and WoS. If any potential wetland areas have not been delineated in a final aquatic resources delineation report verified by USACE, then the limits of such potential wetland WoS will be identified using the same wetland delineation methods described in Section 2.2.1, *U.S. Army Corps of Engineers*, except that a lack of vegetation (i.e., less than 5 percent areal coverage of plants during the peak of the growing season) does not preclude an area from meeting the definition of a wetland when hydric soils and wetland hydrology are present (SWRCB 2019).

2.2.3 California Department of Fish and Wildlife Jurisdiction

Pursuant to Sections 1600 et seq. of the California Fish and Game Code, CDFW regulates any activity that would substantially divert or obstruct the natural flow—or substantially change or use any material from the bed, channel, or bank—of any river, stream, or lake. CDFW jurisdiction relies on the presence of a lake and/or streambed and associated riparian or wetland habitat. CDFW regulation under California Fish and Game Code Section 1602 requires that all lakes and streams on a project site are identified in order to assess the proposed activity's potential impacts on these aquatic resources.

2.2.3.1 Delineation Methods for California Fish and Game Code Section 1600: Lakes, Streambeds, and Associated Riparian and/or Wetland Habitat

CDFW defines *lakes* as "natural lakes or man-made reservoirs" (14 California Code of Regulations 1.56). With respect to streams, it has been the practice of CDFW to define a *stream* as "a body of water that flows perennially or episodically and that is defined by the area in which water currently flows, or has flowed, over a given course during the historic hydrologic course regime, and where the width of its course can reasonably be identified by physical or biological indicators" (Brady and Vyverberg 2013). The historical hydrologic regime is defined as circa 1800 to the present. In addition, streams include "watercourses having a surface or subsurface flow that supports riparian vegetation" (14 California Code of Regulations 1.72). *Riparian habitat* refers to vegetation and habitat associated with a stream. CDFW-jurisdictional habitat includes all riparian shrub or tree canopy that may extend beyond the banks of a stream. Isolated riparian habitat (i.e., where riparian vegetation does not appear associated with a stream channel) is not considered CDFW jurisdictional.

Historical court cases have further extended CDFW jurisdiction to include watercourses that seemingly disappear but re-emerge elsewhere. Under the CDFW definition, a watercourse need not exhibit evidence of an OHWM to be claimed as jurisdictional. Water features such as vernal pools and other seasonal swales—where the defined bed and bank are absent and the feature is not

contiguous or closely adjacent to other jurisdictional features—are generally not asserted to fall within CDFW jurisdiction under Section 1600. CDFW generally does not assert jurisdiction over human-made water bodies unless they are located where such natural features were previously located or where they are contiguous with existing or prior natural jurisdictional areas.

Based on the above, potential CDFW-jurisdictional aquatic resources delineated included lakes and/or streambeds and their associated riparian and wetland habitats. Staff delineated the lateral extent of potential CDFW jurisdiction to be "bank to bank" for a streambed or to the "dripline" of riparian habitat and/or wetland boundary, if present.

Chapter 3
Environmental Setting

The study area consists of the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The following sections describe the topography, land use, hydrology, and soils associated with the study area.

3.1 Topography

The proposed project is in the San Joaquin Valley and Grapevine Canyon between several mountain ranges. The northern end of the subtransmission line at the Kern River 1 Hydroelectric Substation lies adjacent to the Kern River in the southern Sierra Nevada Mountain Range. The alignment passes south through the San Joaquin Valley before creating a fork, continuing south and east. The southern end travels through the Grapevine Canyon in between the Tehachapi Mountains to the east and Tecuya and Frazier Mountains to the west. The Tehachapi Mountains link the Sierra Nevada Mountain Range with the Transverse Ranges and separate the San Joaquin Valley to the west from the Mojave Desert to the east. The west-east segment of the proposed project alignment extends east through the Tehachapi Mountains and ends at the Banducci Substation in Stallion Springs. Elevation in the proposed project area ranges from approximately 600 to 5,000 feet above mean sea level.

3.2 Land Use

The proposed project traverses 66 miles of land predominantly used for agriculture. The northern, southern, and eastern ends of the proposed project are at SCE hydroelectric substations. The subtransmission line travels for approximately 7 miles south of the Kern River 1 Hydroelectric Substation through undeveloped grasslands in the southern Sierra Nevada Mountain Range. From here, it continues south for approximately 30 miles through agricultural land in and around the city of Arvin. The line moves southwest toward the community of Grapevine and continues on the east side of Interstate (I-) 5 through the Grapevine Canyon, crossing I-5 four times. The Grapevine Canyon mountain habitat consists of grasslands, agricultural/nonnative/ruderal, and oak and montane woodlands. Developed areas around I-5 where the subtransmission line crosses include residential and commercial development and recreational use (Fort Tejon State Historic Park). The east fork of the subtransmission line traverses the Tehachapi Mountains, with existing habitats of grasslands, oak and montane woodlands, and minimal agricultural/nonnative/ruderal land. On the eastern side of the Tehachapi Mountains, the line ends east of Stallion Springs, a valley with agricultural land.

3.3 Hydrology

Major aquatic features that pass the subtransmission line include the Kern River, Caliente Creek, Tejon Creek, El Paso Creek, Grapevine Creek, Governor Edmund G. Brown California Aqueduct, and Comanche Creek. Tributaries to these features also intersect the study area.

3.3.1 Precipitation

The regional climate of the San Joaquin Valley is characterized by hot, dry summers and foggy, rainy winters with enough moisture to support grasslands and woodlands in the mountain ranges framing the valley. Precipitation data were obtained from the Bakersfield Airport, California weather station approximately 14 miles west of the proposed project (National Weather Service 2024). The jurisdictional delineation was not conducted in a typical year, with precipitation totals exceeding the 20-year average by 4.2 inches (the 2003–2023 average total was 5.75 inches; the 2023 total was 9.95 inches). Of the last 20 years, 2023 had the second highest precipitation average total, behind 2010 with 12.50 inches. Table 2 summarizes the monthly and annual precipitation for 2019–2023 and provides the average monthly and annual precipitation for 2003–2023.

Table 2. Regional Rainfall Data Summary for Bakersfield Airport, California (inches)

Month	2019	2020	2021	2022	2023	2024	2003–2023
January	1.38	0.24	0.98	0.01	1.97	1.65	0.94
February	1.2	0.01	0.09	0.11	2.44	–	0.88
March	2.01	1.57	0.77	1.34	2.98	–	1
April	0.11	2.61	0.19	0.39	T	–	0.62
May	1.57	0.16	0	0	0.15	–	0.26
June	0.23	0.02	T	0.01	0.37	–	0.04
July	T	0	T	T	0	–	0
August	0	T	0	T	1.08	–	0.05
September	0.02	0	T	0	T	–	0.04
October	0	T	0.94	0	0.3	–	0.29
November	1.07	0.39	0.01	0.66	0.02	–	0.4
December	1.52	0.35	2.6	1.69	0.64	–	1.23
Total Average Precipitation (inches)	9.11	5.35	5.58	4.21	9.95	–	5.75

Source: National Weather Service 2024
T=Trace

3.4 Hydrologic Units and Aquatic Resources Mapping

The study area is within the Middle Kern-Upper Tehachapi-Grapevine (18030003) and Santa Clara (18070102) hydrologic unit code (HUC) 8 watersheds and the following HUC 10 subwatersheds (Appendix A, Figure 3): Cottonwood Creek-Kern River (1803000301), Pleitito Creek-Kern Lake Bed (1803000312), Caliente Creek (1803000304), Lake Paulina-Comanche Creek (1803000306), Caparell Creek-Frontal Kern Lake Bed (1803000310), Tejon Creek (1803000305), El Paso Creek (1803000308), Liveoak Canyon-Pastoria Creek (1803000309), Grapevine Creek (1803000307), and Upper Piru Creek (1807010205). The FEMA 100-year floodplain, NHD database results, and U.S. Fish and Wildlife Service NWI database query results for the study areas are depicted on the water resources map (Appendix A, Figure 4).

3.5 Soils

3.5.1 Soil Series

The Natural Resources Conservation Service has mapped the following soil map units listed in Table 3 as occurring within the study area based on the Soil Survey Geographic database. Hydric soils mapped within the study area are shown in Appendix A, Figure 5, and descriptions of each soil map unit, its hydric criteria rating, and landforms associated with hydric soils are included in Table 3 (USDA/NRCS 2006). Hydric soil determinations are based on the NRCS Field Office List of Hydric Soil Map Units for Kern/Los Angeles Counties, California (USDA/NRCS 2017).

Table 3. Soil Map Unit Descriptions, Hydric Criteria, and Hydric Landforms

Soil Map Unit	Description	Hydric Criteria*	Hydric Landforms
138	Hesperia sandy loam, 0 to 2 percent slopes	2, 4	Floodplains on valleys
139	Riverwash	4	Channels, floodplains, valleys
139ne	Riverwash	4	Channels, floodplains, valleys
144	Hesperia sandy loam, 0 to 2 percent slopes	2, 3	Depressions, valleys
144	Calicreek sandy loam, 0 to 2 percent slopes, occasionally flooded	4	Depressions, floodplains, valleys
145	Delano loamy sand, 0 to 2 percent slopes	4	Depressions, floodplains, valleys
152	Pleito gravelly sandy clay loam, 2 to 5 percent slopes	2, 4	Floodplains, valleys
185	Brecken-Cuyama-Pleito complex, 15 to 60 percent slopes	4	Drainageways, floodplains, hills
191	Guijarral sandy loam, 2 to 9 percent slopes	4	Alluvial fans, floodplains, valleys
192	Chanac-Pleito complex, 5 to 30 percent slopes	2, 3, 4	Fan remnants, valleys
192	Guijarral-Klipstein complex, 2 to 5 percent slopes	4	Alluvial fans, floodplains, valleys
193	Chanac-Pleito complex, 2 to 5 percent slopes	2, 4	Fan remnants, valleys
197	Nord fine sandy loam, 0 to 2 percent slopes, rarely flooded	4	Drainageways, floodplains, valleys
201	Hesperia sandy loam, 0 to 2 percent slopes	2, 4	Floodplains, valleys
205	Pleito-Trigo-Chanac complex, 15 to 50 percent slopes	2, 4	Floodplains, hills
209	Whitewolf loamy sand, 0 to 2 percent slopes, occasionally flooded	4	Floodplains, valleys
209ne	Whitewolf loamy sand, 0 to 2 percent slopes, occasionally flooded	4	Floodplains, valleys
211	Xerorthents-Rock outcrop complex, very steep	2	Drainageways, hills, mountains
217	Whitewolf-Riverwash complex, 0 to 5 percent slopes, frequently flooded	4	Drainageways, depressions, floodplains, valleys

Soil Map Unit	Description	Hydric Criteria*	Hydric Landforms
267	Cieneba-Vista-Rock outcrop complex, 30 to 60 percent slopes	2, 4	Drainageways, hills, mountains, floodplains
267ne	Cieneba-Vista-Rock outcrop complex, 30 to 60 percent slopes	2, 4	Drainageways, hills, mountains, floodplains
280	Premier sandy loam, 0 to 2 percent slopes	2, 4	Depressions, floodplains, valleys
290	Riverwash	2, 4	Channels, alluvial fans, floodplains, valleys
306	Xerofluvents, occasionally flooded-Riverwash complex, 0 to 5 percent slopes	4	Floodplains, hills, valleys
312	Vineland-Bakersfield complex, 0 to 1 percent slopes, drained	4	Floodplains, channels, valleys
402	Loslobos-Walong association, 5 to 30 percent slopes	2, 4	Drainageways, seeps, valleys
460	Geghus-Tecuya association, 9 to 30 percent slopes	2, 4	Seeps, valleys
461	Geghus-Tecuya association, 30 to 75 percent slopes	2, 4	Drainageways, seeps, valleys
590	Gorman-Typic Xerorthents, mesic-Xerorthents, shallow, complex, 30 to 100 percent slopes	2, 4	Drainageways, hills, seeps
850	Xerofluvents, 0 to 5 percent slopes	4	Floodplains, valleys
860	Hawk gravelly sandy loam, 9 to 15 percent slopes	2, 4	Drainageways, floodplains, mountains
870	Frazier very gravelly sandy loam, 50 to 75 percent slopes	2	Mountains, seeps
880	Chuchupate gravelly sandy loam, 50 to 75 percent slopes	2, 4	Floodplains, mountains, seeps
Co	Chino loam	2	Drainageways
GoF2	Gorman sandy loam, 30 to 50 percent slopes, eroded	2	Drainageways

*Hydric criteria notes:
1. All Histels except Folistels, and all Histosols except Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, or Andic, Cumulic, Pachic, or Vitrandic subgroups that: (a) Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or (b) Show evidence that the soil meets the definition of a hydric soil. (*Federal Register* Doc. 2012-4733 Filed 2-28-12) [Previous choices of 2a, 2b1, 2b2, and 2b3 have been deleted as choices per request of Lenore Vasilas at the behest of the National Technical Committee for Hydric Soils.]
3. Soils that are frequently ponded for long duration or very long duration during the growing season.
4. Soils that are frequently flooded for long duration or very long duration during the growing season.

Chapter 4
Jurisdictional Delineation Results

This chapter describes potential jurisdictional features and expected jurisdictional status within the study area. An impact analysis is not included as a part of this report. The information included herein documents the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of our knowledge. However, all jurisdictional delineations should be considered preliminary until reviewed and approved by the regulatory agencies.

Supporting information includes maps of jurisdictional features within the study area (Appendix A), photographs for all delineated features (Appendix B), OHWM data sheets (Appendix C), wetland determination forms (Appendix D), SDAM forms (Appendix E), and jurisdictional delineation results (Appendix F).

4.1 Delineated Feature Descriptions

Within the study area, a total of 91 aquatic features potentially subject to the jurisdiction of USACE, RWQCB, and CDFW were delineated (Appendix F). Feature numbering is not consecutive and may be duplicated due to changes in the study area and use of multiple teams for fieldwork. In cases where feature numbering is duplicated, the lead delineator's initials were added to differentiate features. A summary of the jurisdictional delineation results based on feature type (ephemeral, intermittent, perennial, and wetland) are included in Table 4 and described in the sections below. Detailed maps depicting USACE/RWQCB WoUS and CDFW jurisdictions are included in Appendix A, Figures 6 and 7, respectively. Jurisdictional delineation results for individual features are included in Appendix F.

Table 4. Summary of Potential USACE, RWQCB, and CDFW Jurisdiction Water Resources

	USACE/RWQCB Aquatic Resources		CDFW Aquatic Resources	
Feature Type	Non-Wetland WoUS (acres/linear feet)	Wetland WoUS (acres/linear feet)	Streambed (acres/linear feet)	Riparian (acres/linear feet)
Ephemeral features	4.442/22,895	--	9.299/23,131	0.549/682
Intermittent features	2.764/3,184	--	6.222/3,915	0.273/679
Perennial features	1.809/1,345	--	3.185/1,709	--
Wetland features	--	1.718/870	--	--
Total	9.015/27,424	1.718/870	18.706/28,755	0.822/1,361

Data based on ICF geographic information system calculations, June 2024
-- equals null value (zero)

4.1.1 Ephemeral Features

Within the study area, there are 82 ephemeral features that range from small, earthen channels to large, sandy washes. Ephemeral features occur throughout most of the study area, frequently crossing designated proposed project access roads. These features are either unvegetated or dominated with upland vegetation and collect rainwater runoff from surrounding hillsides and

upland areas. The OHWM associated with these features typically exhibited a break in slope, sediment deposition, debris wracking, and change in average sediment size.

Of the four representative features chosen for streamflow duration assessments, features 001-KK, 0019, and 0031 were determined to exhibit ephemeral flow regimes. These features did not contain any hydrophytic plant species, aquatic invertebrates, algae, or fish within the areas surveyed, which is a strong indicator of an ephemeral flow regime.

All of these features may be subject to USACE, RWQCB, or CDFW jurisdiction. Results for each individual feature can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.2 Intermittent Features

Within the study area, there are five intermittent features that range from small, earthen channels to large, sandy washes and are vegetated with wetland vegetation to some degree, either within the channel or on the banks. These features receive flows somewhat regularly and for prolonged periods of time after rainfall has occurred, such as from snow melt from the Tehachapi, Tecuya, and Frazier Mountains. Some features also contained flowing water at the time of the delineation. The OHWM associated with these features typically exhibited a break in slope, sediment deposition, debris wracking, change in average sediment size, change in vegetation cover and species, and sometimes change in current flow levels.

Of the four representative features chosen for streamflow duration assessments, feature 0044 was determined to exhibit an intermittent flow regime. Although aquatic invertebrates and fish were not observed, feature 0044 did contain filamentous algal mats and hydrophytic plant species including Fremont's cottonwood (*Populus fremontii*, FACW) and black willow (*Salix gooddingii*, FACW) saplings, which are indicators of a stream being "at least intermittent" according to the SDAM form.

All of these features may be subject to USACE, RWQCB, or CDFW jurisdiction. Results for each individual feature can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.3 Perennial Features

Features 0058 and 0059 are both sections of the Kern River and the only perennial features within the study area. Both features are a large, NHD blue-line stream flowing northeast to southwest in the northernmost portion of the study area. These features receive flows from Isabella Reservoir to the northeast and are confined within Kern Canyon, flowing parallel to Kern Canyon Road directly east. They are characterized by grouted riprap along the eastern banks, a natural rocky canyon that makes up the western banks, and cobbles and boulders within the channel bed. Although the features are predominantly unvegetated, scattered western sycamore (*Platanus racemosa*, FAC), mulefat (*Baccharis salicifolia*, FAC), and coyote bush (*Baccharis pilularis*, UPL) line portions of the banks within the study area.

The OHWM associated with Features 0058 and 0059 ranges from 53 to 124 feet wide and is defined as a break in slope, change in average sediment texture, change in vegetation cover, debris wracking, and staining. Limits of CDFW jurisdiction were determined by the top of bank and range from approximately 97 to 150 feet wide.

These features may be subject to USACE, RWQCB, and CDFW jurisdiction. Results for both features can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.4 Wetland Features

Two potential wetland features are mapped within the study area. Feature W0011 was not accessible in the field and was mapped via desktop based on topography and open water visible on aerial imagery. The feature appears to be associated with an NHD blue-line stream that is downstream from features 007-SG and 008-SG. Feature W0005 is a potential wetland along the side of I-5 and adjacent to feature 0006. The feature is a grassy depression that gently slopes northeast to southwest with drainage patterns and some ponded water near the southern edge. The feature is dominated by hydrophytic vegetation that includes Mexican rush (*Juncus mexicanus*, FACW), creeping wild rye (*Leymus triticoides*, FAC), and tall pepperweed (*Lepidium latifolium,* FAC). The feature also supported A11 hydric soils: Depleted Below Dark Surface. The wetland boundary was determined based on changes in vegetation, topography, and lack of hydrology indicators.

These features may be subject to USACE and RWQCB jurisdiction. Results for both features can be found in Appendix F, *Jurisdictional Delineation Results.*

4.1.5 Non-jurisdictional Features

In addition to the mapped features described above, numerous other areas that were identified as potential aquatic resources during the desktop delineation were evaluated for USACE, RWQCB, and/or CDFW jurisdiction; it was determined that they were not potential aquatic resources. These areas lacked OHWM indicators, as well as a bed and bank, and were not considered surface waters because they were strictly agricultural ditches, concrete V-ditches, swales, constructed farm basins, and erosional features. These features did not appear to be associated with a natural stream channel, nor did they divert or replace a natural stream channel. Representative photographs of these features can be found in Appendix B, *Site Photographs*.

4.2 Summary of Jurisdictional Delineation Results

Based on the investigation and analysis documented in this report, potential CWA Section 404 and 401 USACE/RWQCB aquatic resources documented within the study area consist of 9.015acres (27,424linear feet) of non-wetland WoUS and 1.718 acres (870 linear feet) of wetland WoUS. No potential RWQCB Porter-Cologne WoS-only aquatic resources are mapped within the study area.

Potential CDFW jurisdiction documented in the study area consists of 18.706acres (28,755 linear feet) of streambed and 0.8222 acre (1,361 linear feet) of associated riparian vegetation.

All jurisdictional determinations in this report should be considered preliminary until reviewed and approved by applicable regulatory agencies.

4.3 List of Delineators and Report Preparers/Reviewers

Kristen Klinefelter—Delineator/Report Preparer

Sarah Gulyas—Delineator/Report Preparer

Sara Galindo—Delineator

Alix Fowler—Delineator

Nicole Argueta—Delineator

Lanika Cervantes—Report Reviewer

Rachel Sarner—Geographic Information System/Graphics Support

Johnnie Garcia—Geographic Information System/Graphics Support

Saadia Byram—Editor and Publications Specialist

Chapter 5
References

Baldwin, B. G., D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken (eds.). 2012. *The Jepson Manual: Vascular Plants of California.* Second Edition. Berkeley, CA: University of California Press. 1,568 pp.

Brady, R. H. III, and K. Vyverberg. 2013. *Methods to Describe and Delineate Episodic Stream Processes on Arid Landscapes for Permitting Utility-Scale Solar Power Plants*. California Energy Commission. Publication Number: CEC-500-2014-013.

Cowardin, L. M., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Jamestown, ND: Northern Prairie Wildlife Research Center Online. Available: https://mtnhp.org/nwi/Cowardin.pdf (Version 04DEC1998).

Environmental Laboratory. 1987. *Corps of Engineers Wetland Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Waterways Experiment Station.

Federal Emergency Management Agency (FEMA). 2022. 100-Year Floodplain Maps. Available: https://msc.fema.gov/portal/search. Accessed: January 2024.

Google Earth. 2024. *Aerial Imagery for the Study Area*. Various dates between 1994 and 2024. Accessed: December 2023/January 2024.

Lichvar, R. W., N. C. Melvin, M. L. Butterwick, and W. N. Kirchner. 2012. *National Wetland Plant List Indicator Rating Definitions. ERDC/CREEL TN-12-1.* Hanover, NH: U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory.

Mazor, R. D., B. Topping, T.-L. Nadeau, K. M. Fritz, J. Kelso, R. Harrington, W. Beck, K. McCune, H. Lowman, A. Allen, R. Leidy, J. T. Robb, and G. C. L. David. 2021. *User Manuel for a Beta Streamflow Duration Assessment Method for the Arid West of the United States*. Version 1.0. Document No. EPA800-5-21001.

National Weather Service. 2024. Bakersfield Airport, California. Available: http://w2.weather.gov/climate/xmacis.php?wfo=sgx. Accessed: January 2024.

State Water Resources Control Board (SWRCB). 2019. *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State*. April.

U.S. Army Corps of Engineers (USACE). 2005. *Ordinary High Water Mark Identification*. USACE Regulatory Guidance Letter (RGL) 05-05. December. Available: https://www.nap.usace.army.mil/Portals/39/docs/regulatory/rgls/rgl05-05.pdf.

———. 2008a. *A Field Guide to the Identification of the OHWM in the Arid West Region of the Western United States: A Determination Manual*. August. Available: https://www.spk.usace.army.mil/Portals/12/documents/regulatory/pdf/Ordinary_High_Watermark_Manual_Aug_2008.pdf.

———. 2008b. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Version 2.0). Vicksburg, MS: U.S. Army Engineer Research and Development Center. September. Available: https://usace.contentdm.oclc.org/utils/getfile/collection/p266001coll1/id/7627.

———. 2010. *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States.* Available: https://www.spl.usace.army.mil/Portals/17/docs/regulatory/JD/UpdatedDatasheetforIDOHWM_ERDC_2010.pdf.

———. 2011. *Ordinary High Water Flows and the Stage-Discharge Relationship in the Arid West Region*. July. Available: https://apps.dtic.mil/sti/pdfs/ADA550816.pdf.

———. 2022. National Wetland Plant List, Version 3.6. Available http://wetland-plants.usace.army.mil/. Accessed: January 2024.

U.S. Army Corps of Engineers/Environmental Protection Agency (USACE/EPA). 2023. *Revised Definition of "Waters of the United States"; Conforming. Federal Register* Vol. 88, No. 173. Rules and Regulations. September 8, 2023. Available: https://www.epa.gov/system/files/documents/2023-08/Pre-publication%20Version%20of%20the%20Final%20Rule%20-%20Amendments%20to%20the%20Revised%20Definition%20of%20Waters%20of%20the%20United%20States.pdf.

U.S. Department of Agriculture, Natural Resources Conservation Service (USDA/NRCS). 2006. Soil Survey Geographic (SSURGO) Database for Kern and Los Angeles Counties, California. Prepared by Soil Survey Staff of the Natural Resources Conservation Service. Available: http://sdmdataaccess.nrcs.usda.gov/. Accessed: February 2024.

———. 2017. Hydric Soils for Kern/Los Angeles Counties, California Area. Available: https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/use/hydric/?cid=nrcs142p2_053961. Accessed: February 2024.

———. 2018. *Field Indicators of Hydric Soils in the United States,* Version 8.2. L. M. Vasilas, G. W. Hurt, and J. F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

U.S. Fish and Wildlife Service (USFWS). 2021. National Wetlands Inventory Website. Washington, D.C. Available: http://www.fws.gov/wetlands/. Accessed: January 2024.

U.S. Geological Survey (USGS). 2021. 7.5-Minute Rio Bravo Ranch, Edison, Arvin, Tejon Hills, Pastoria Creek, Grapevine, Frazier Mountain, Lebec, Bear Mountain, Tejon Ranch, and Cummings Mountain, California, Quadrangle. Photo-revised 1981.

———. 2022. National Hydrography Dataset Website. U.S. Geological Survey, in cooperation with EPA, USDA Forest Service, and other federal, state and local partners. Available: ftp://nhdftp.usgs.gov/DataSets/Staged/States. Accessed: January 2024.

Appendix A

Jurisdictional Delineation Figures

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Figure 1
Regional Location
Gorman-Kern River 66 kV Subtransmission Line Project

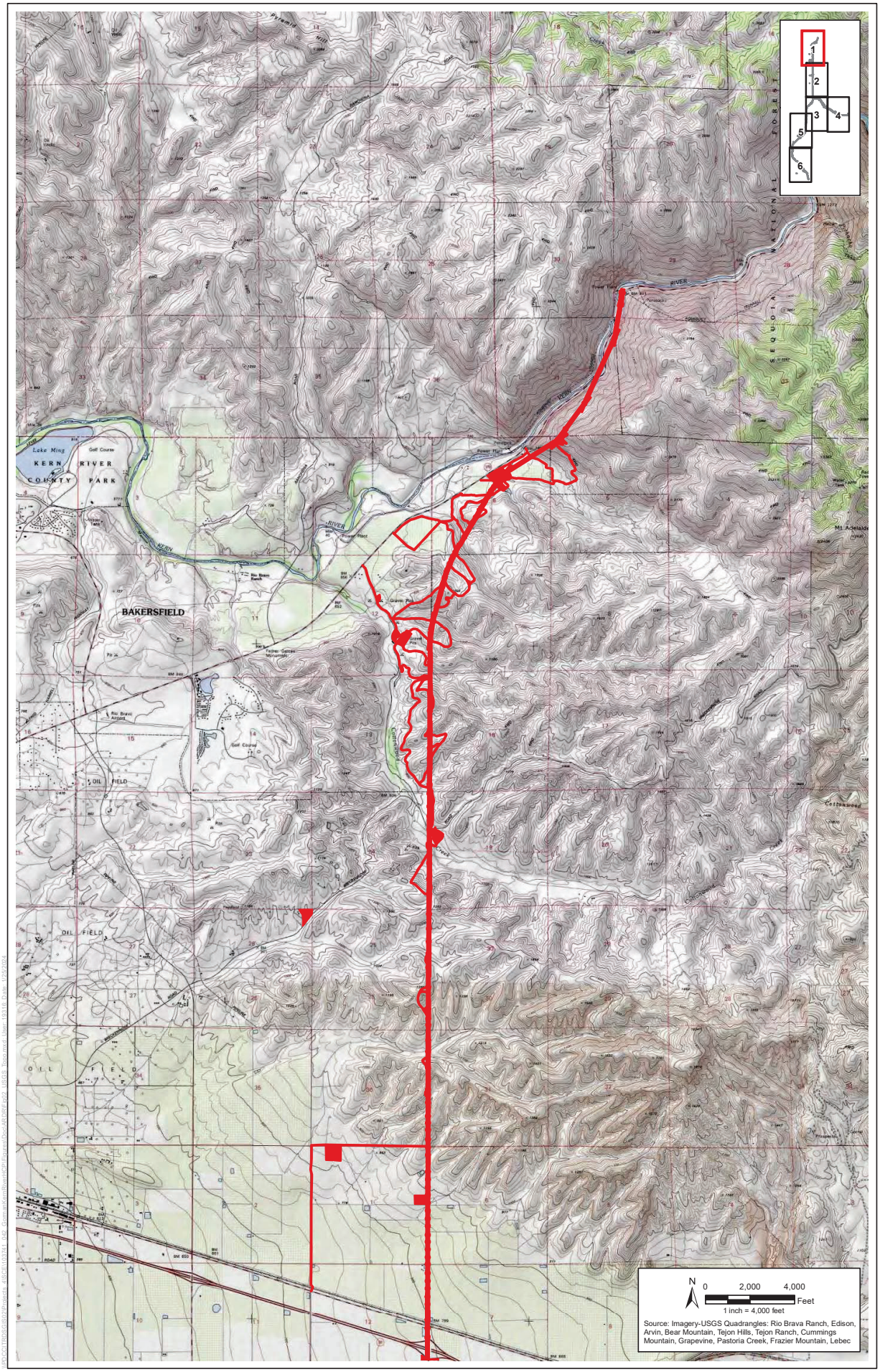
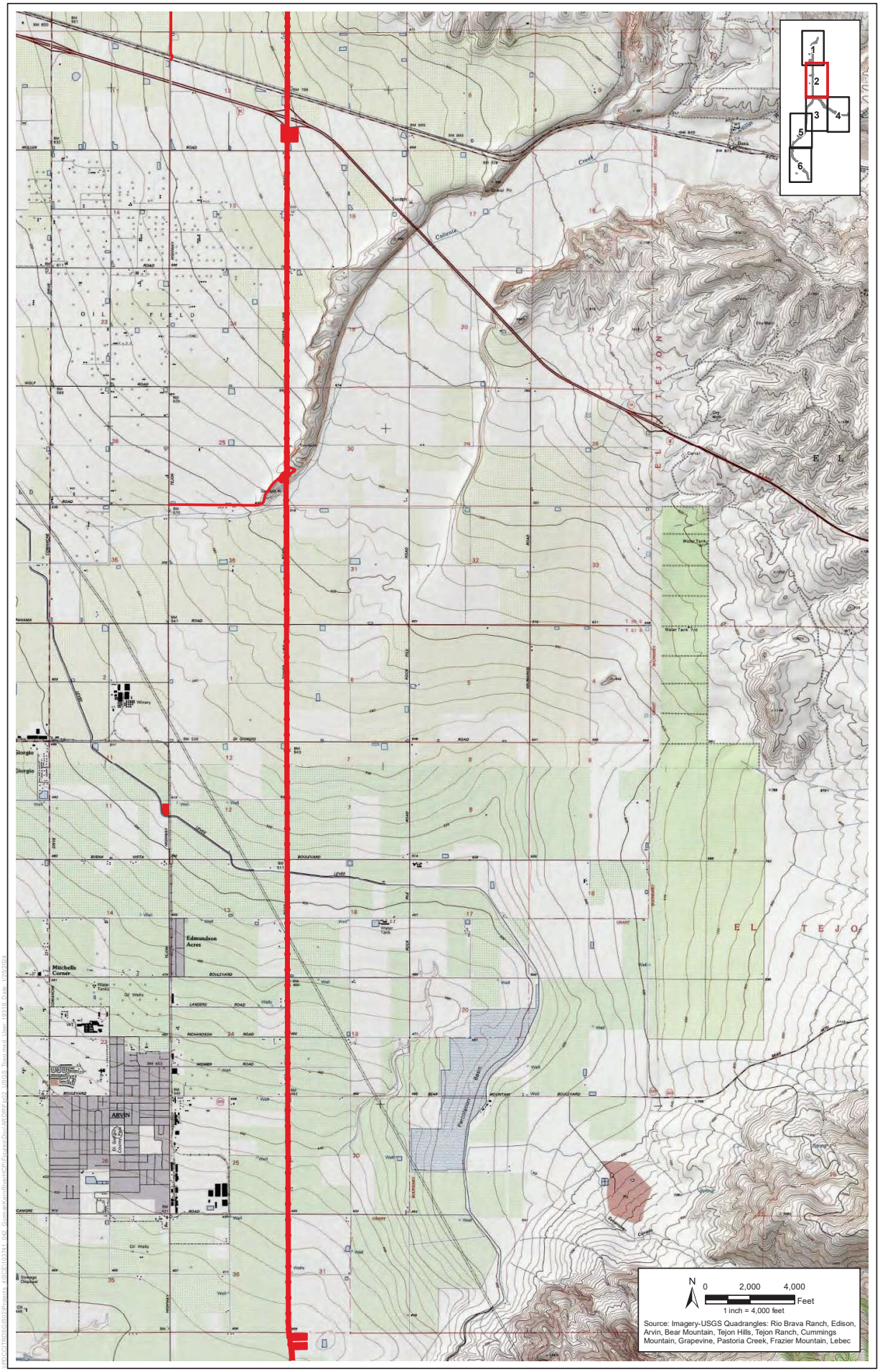


Figure 2 - Sheet 1
USGS Topographic Map
Gorman-Kern River 66 kV Subtransmission Line Project



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USGS Topographic Map
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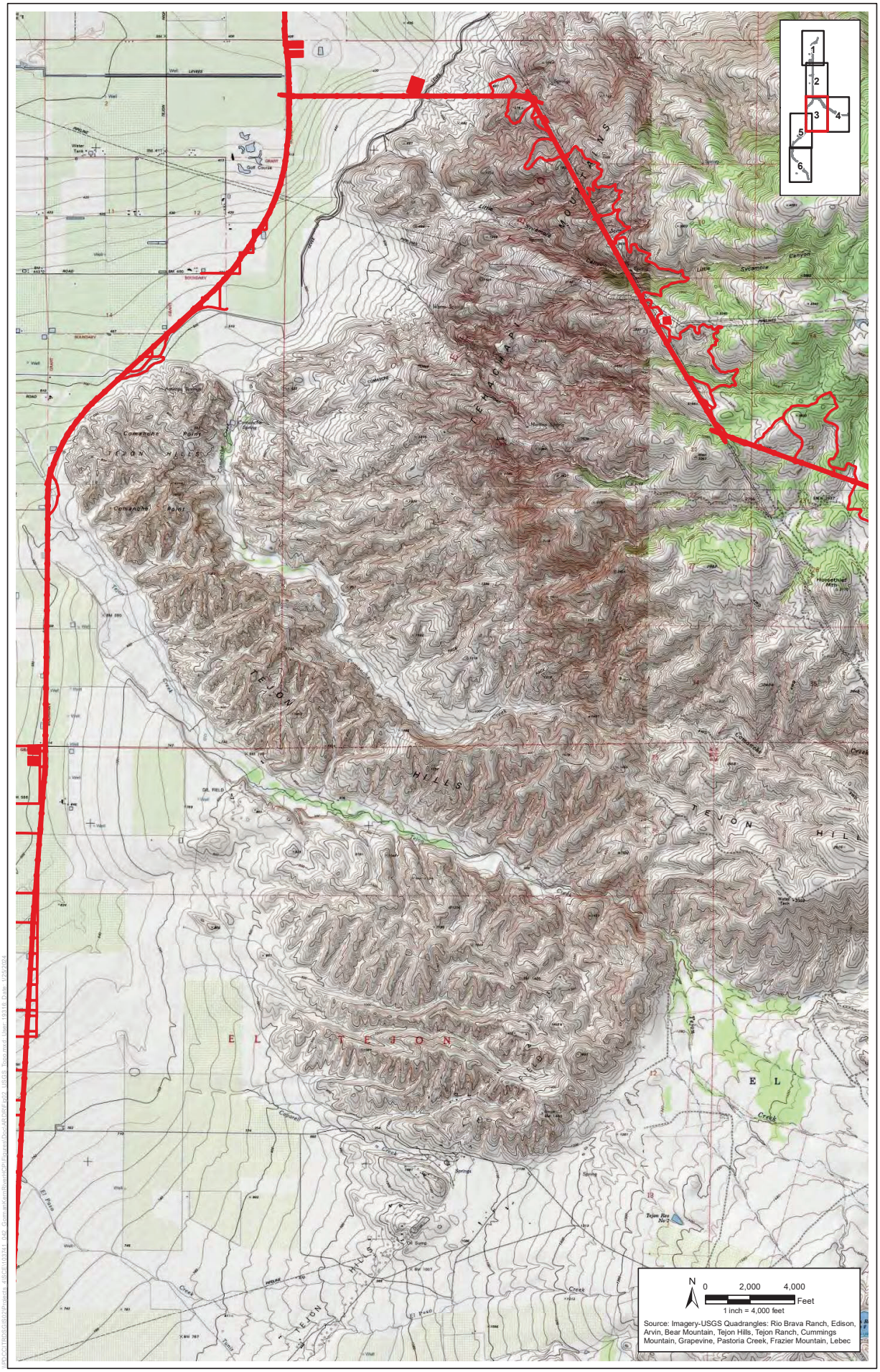

Figure 2 - Sheet 3
USGS Topographic Map
Gorman-Kern River 66 kV Subtransmission Line Project

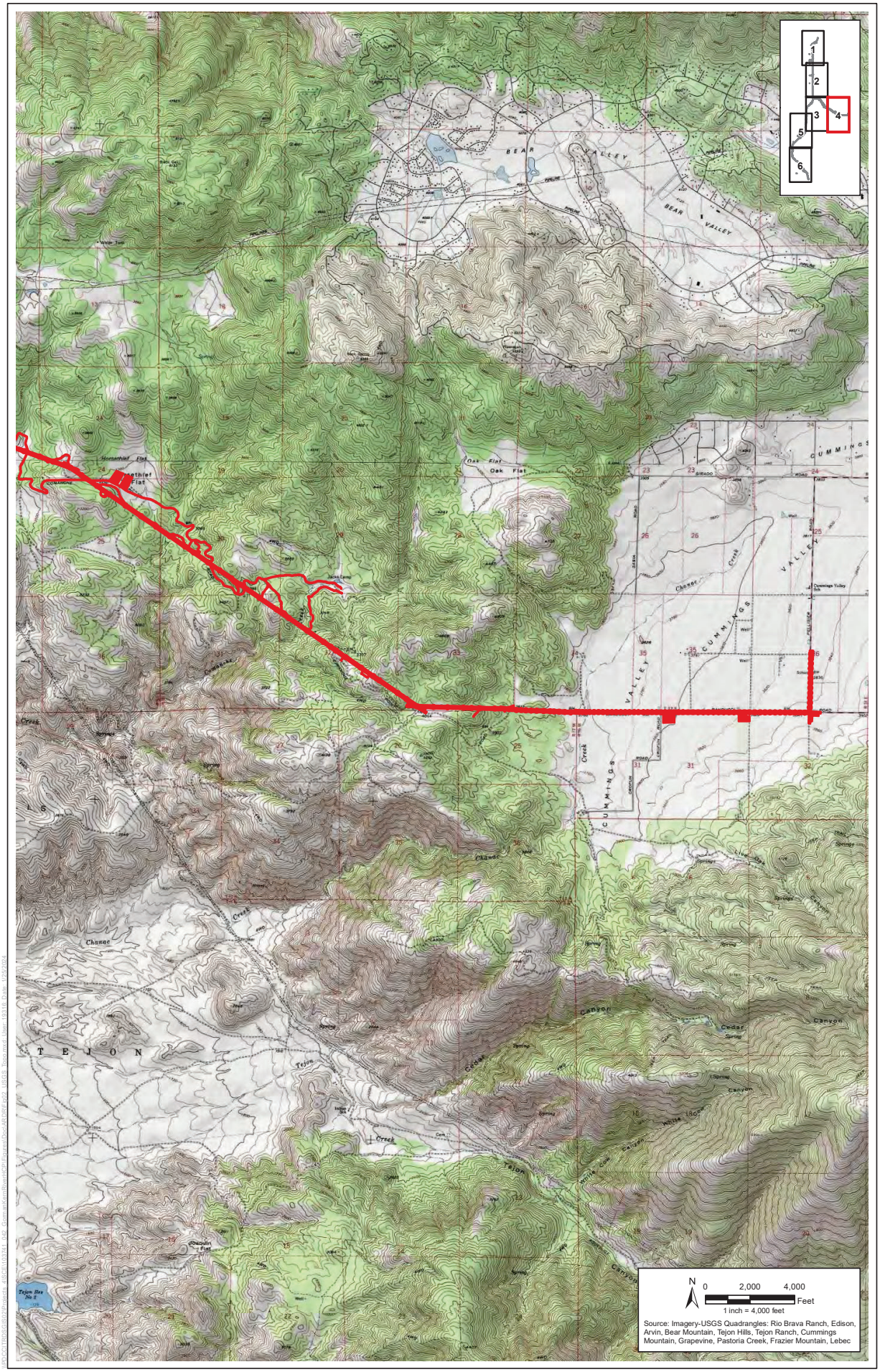

Figure 2 - Sheet 4
USGS Topographic Map
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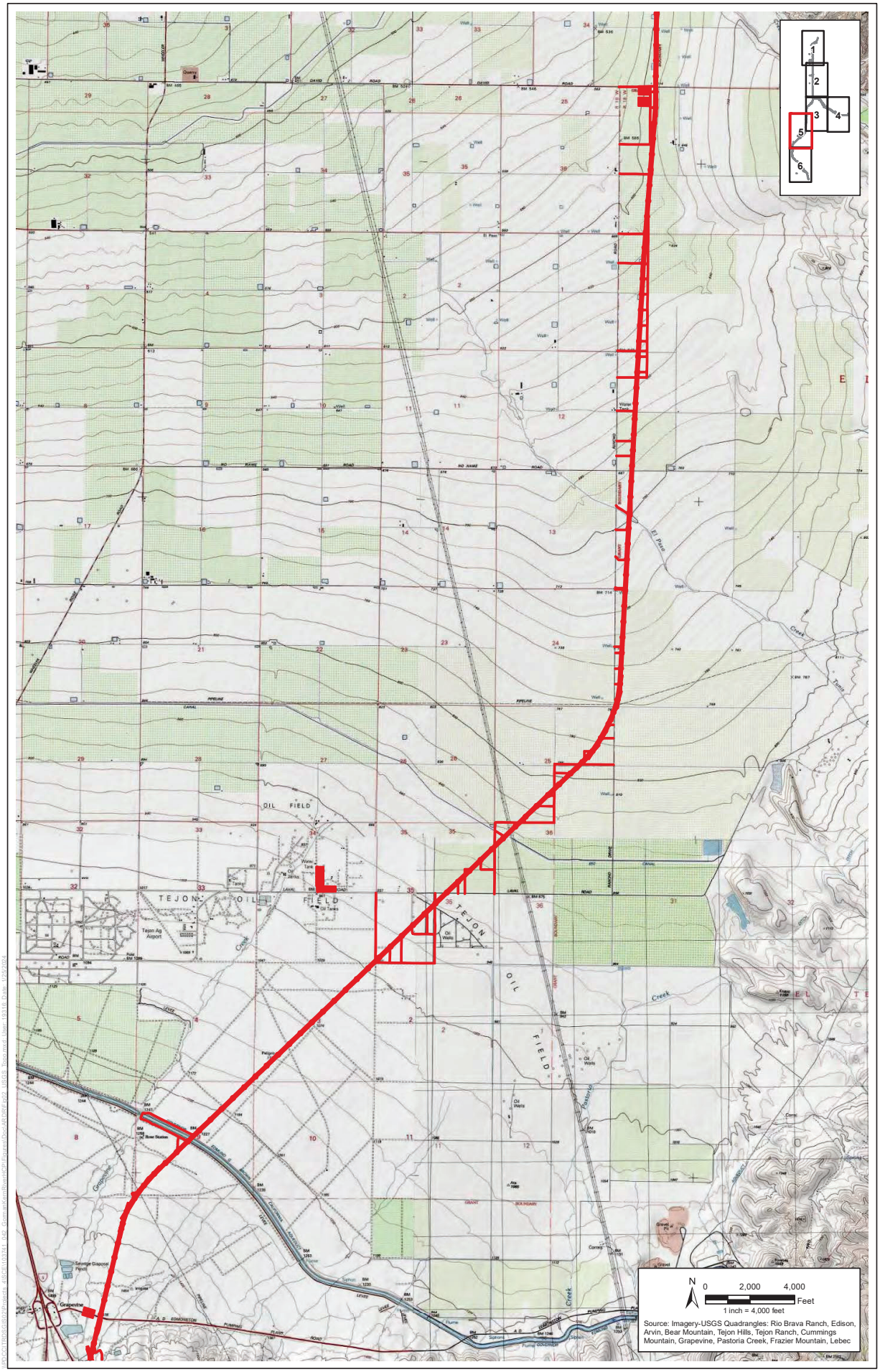

Figure 2 - Sheet 5
USGS Topographic Map
Gorman-Kern River 66 kV Subtransmission Line Project

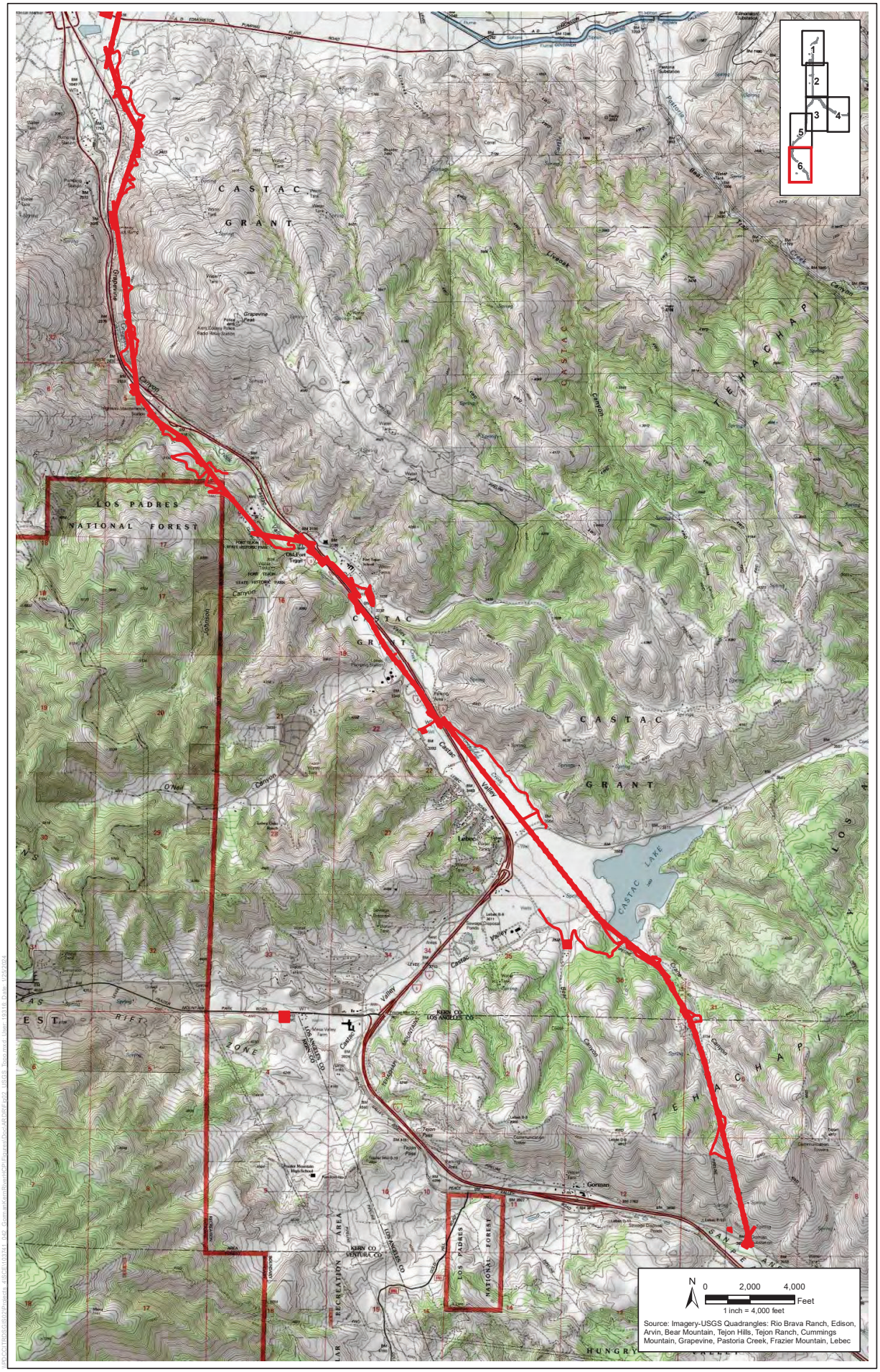

Figure 2 - Sheet 6
USGS Topographic Map
Gorman-Kern River 66 kV Subtransmission Line Project

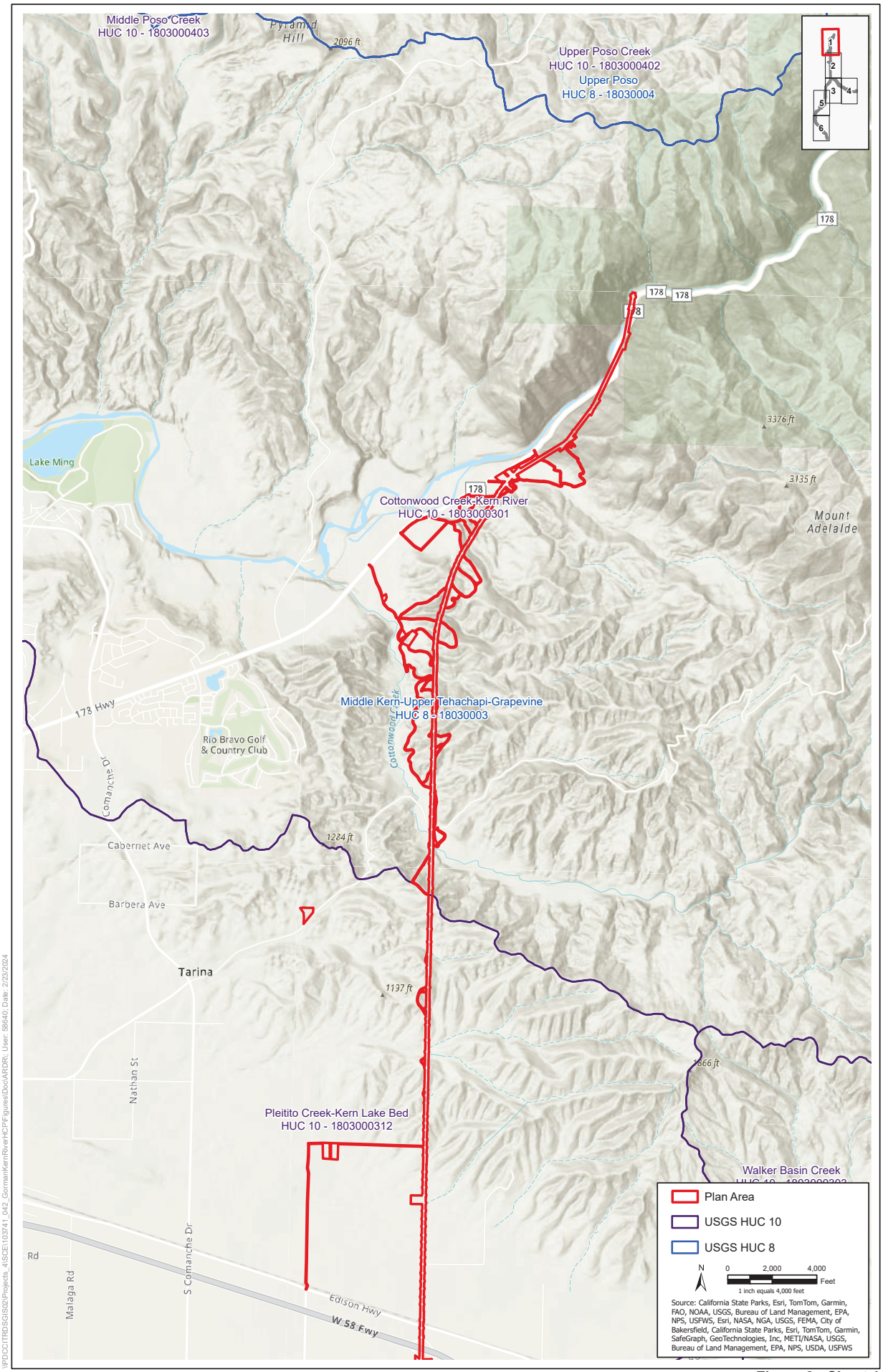

Figure 3 - Sheet 1
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

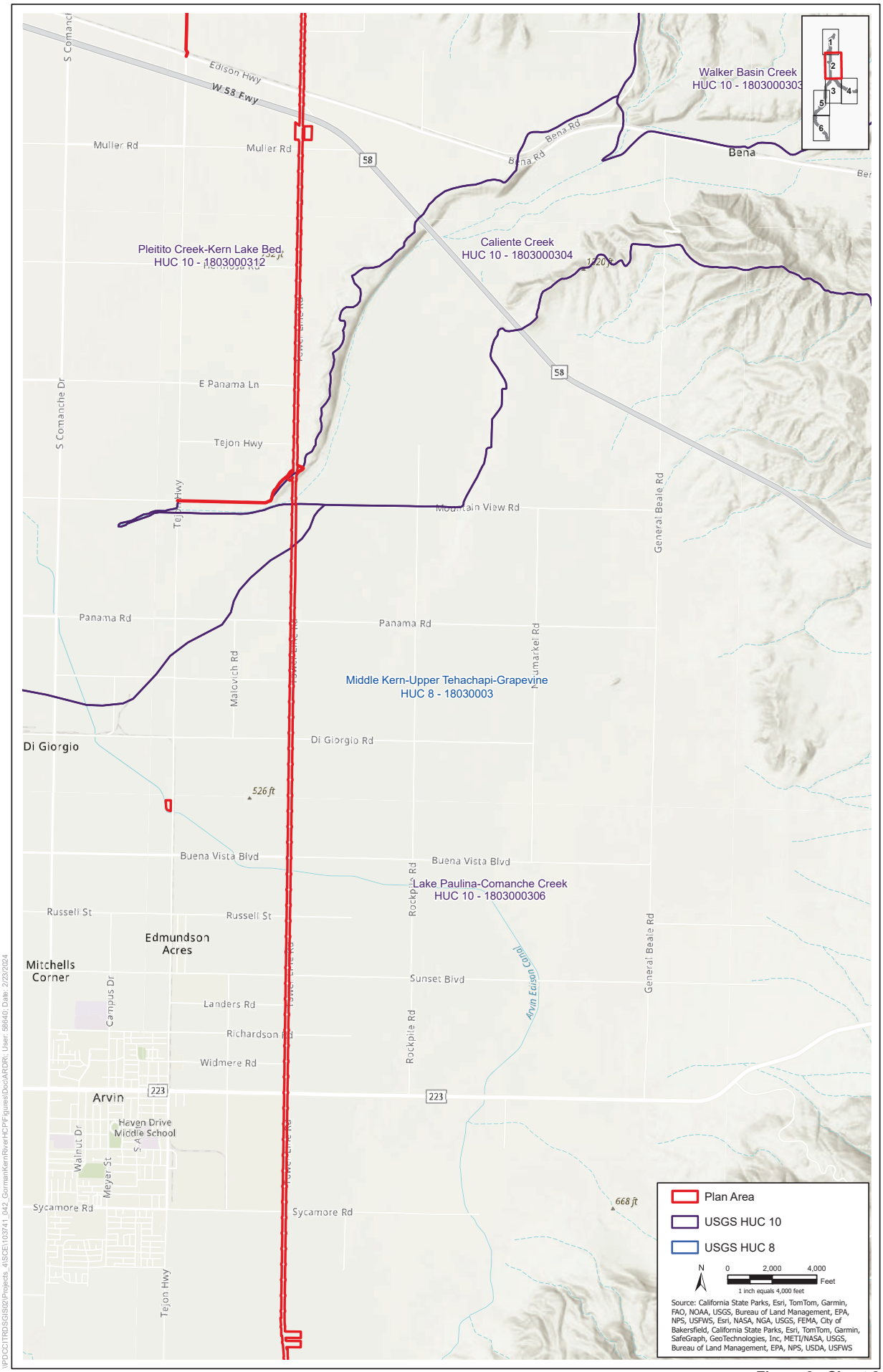

Figure 3 - Sheet 2
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

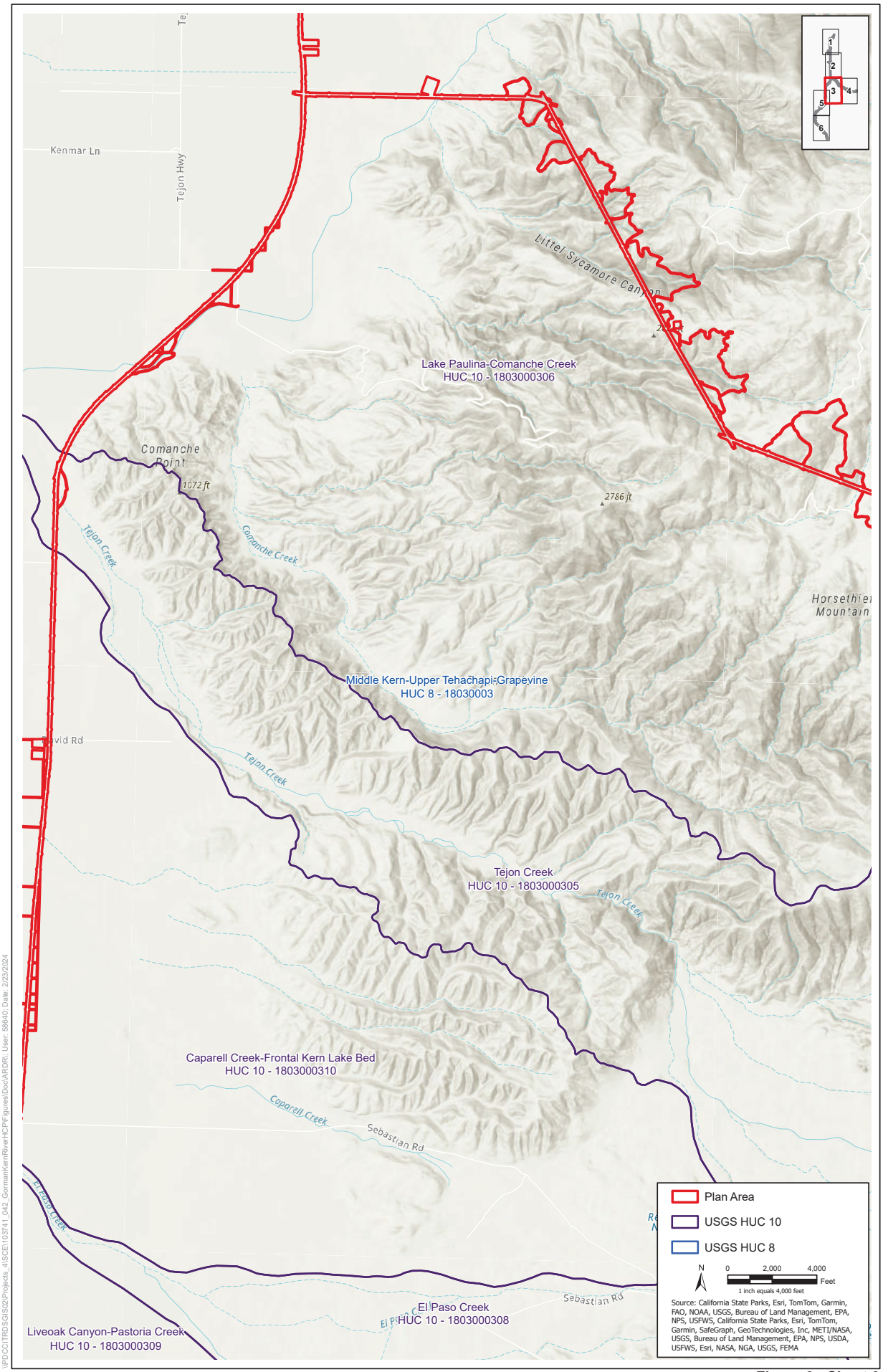

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Figure 3 - Sheet 3
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

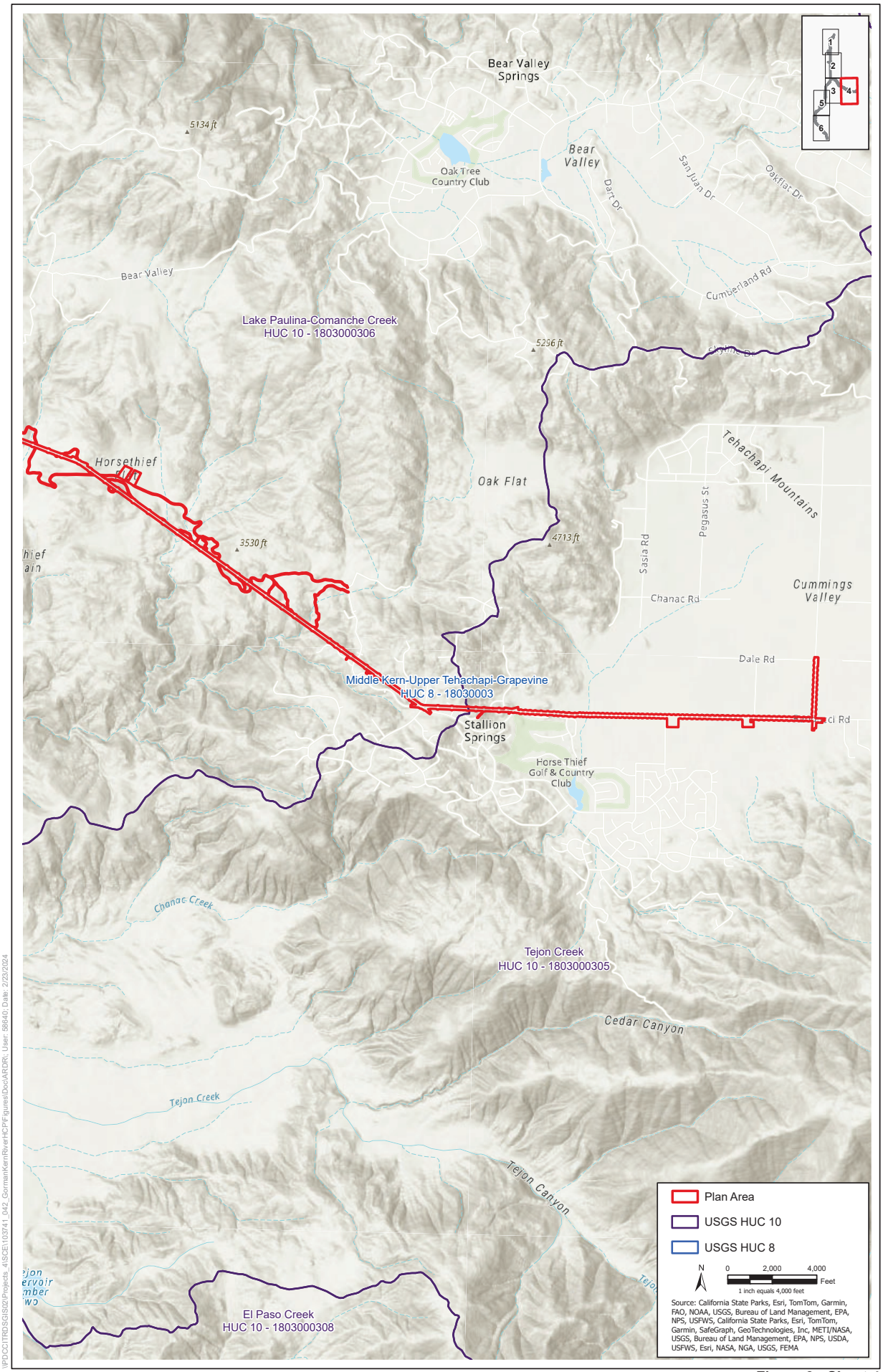

Figure 3 - Sheet 4
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

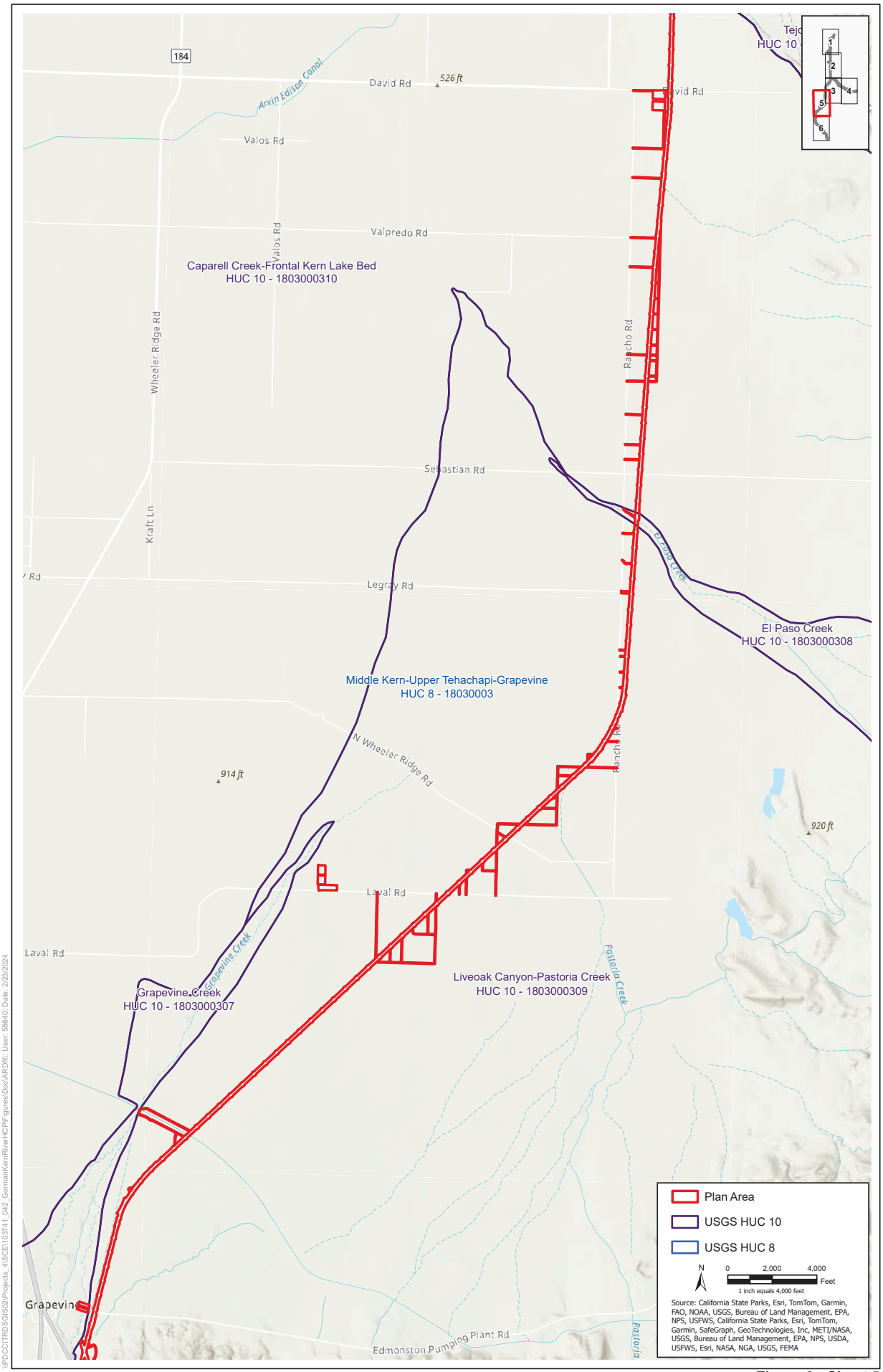

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Figure 3 - Sheet 5
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

Figure 3 - Sheet 6
Watersheds
Gorman-Kern River 66 kV Subtransmission Line Project

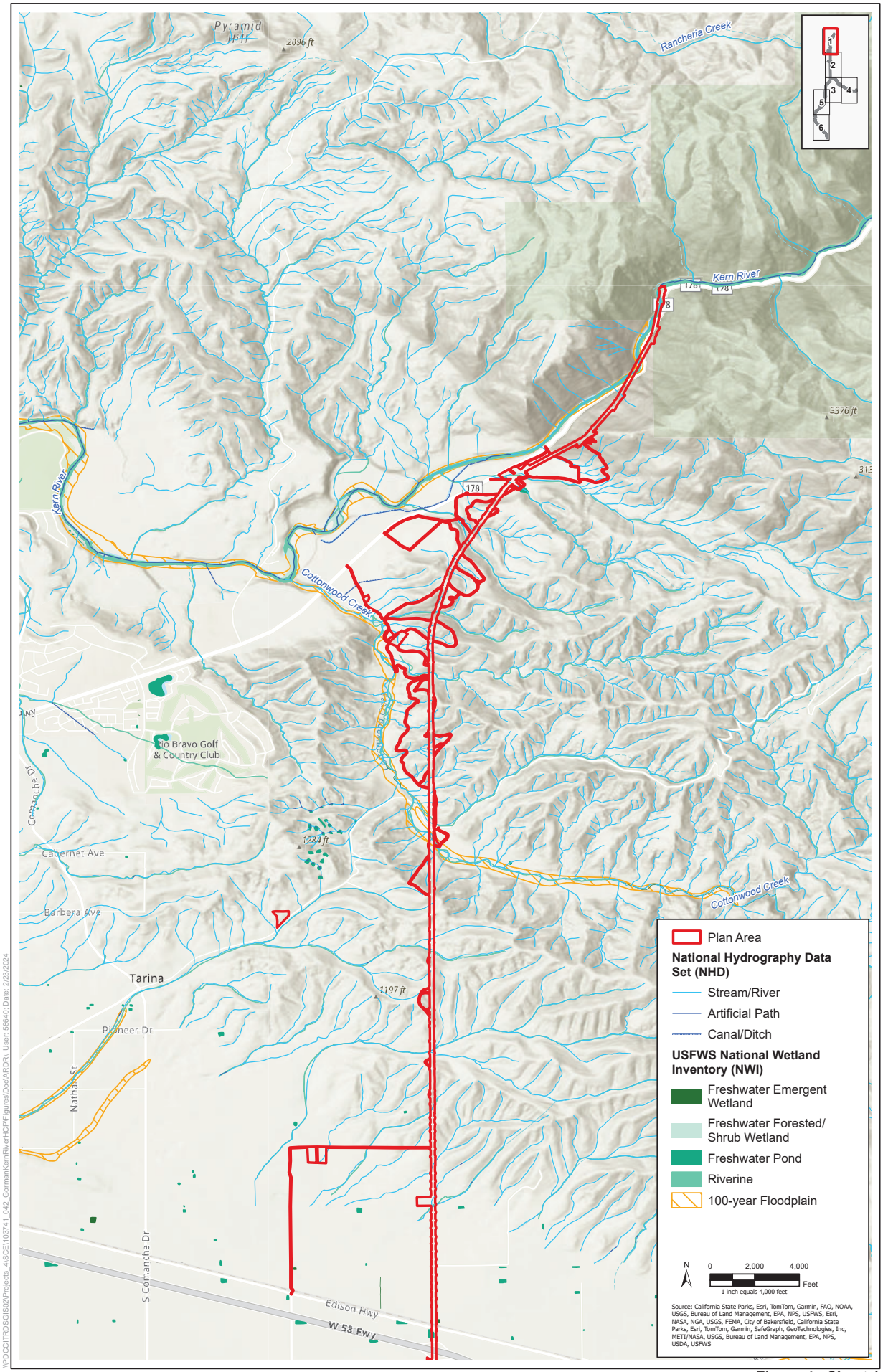

Figure 4 - Sheet 1
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

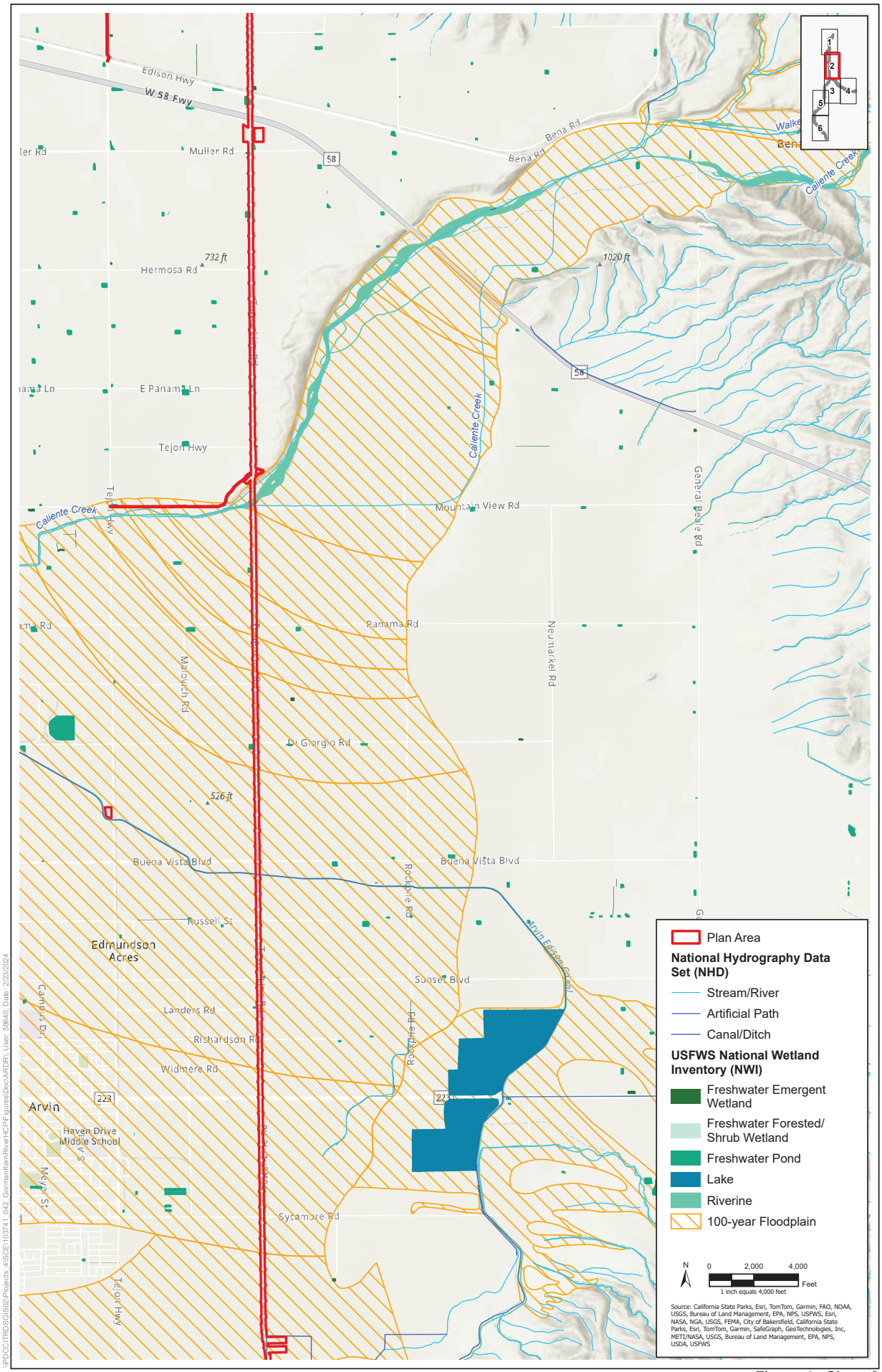

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Figure 4 - Sheet 2
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

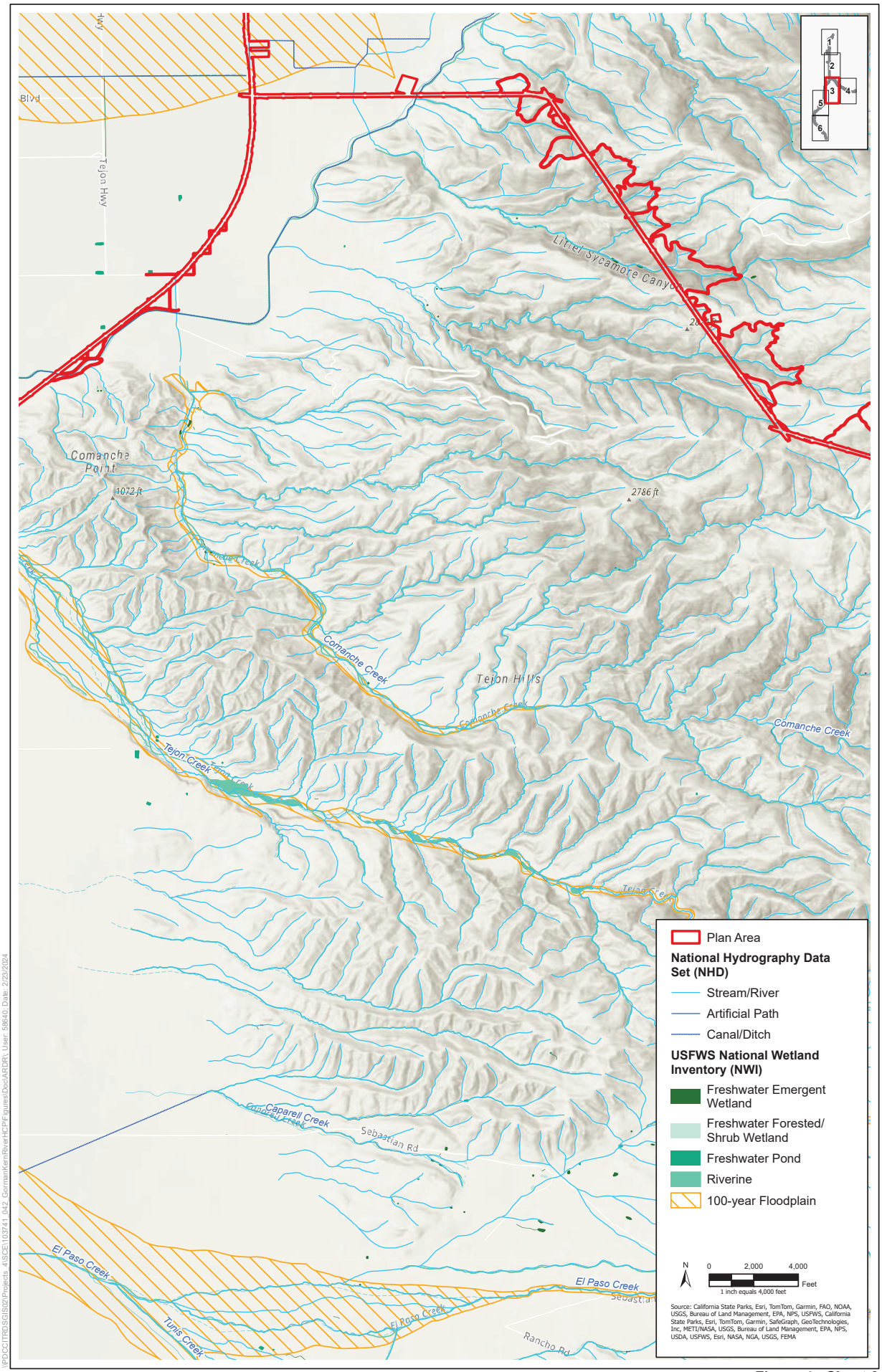

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Figure 4 - Sheet 3
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

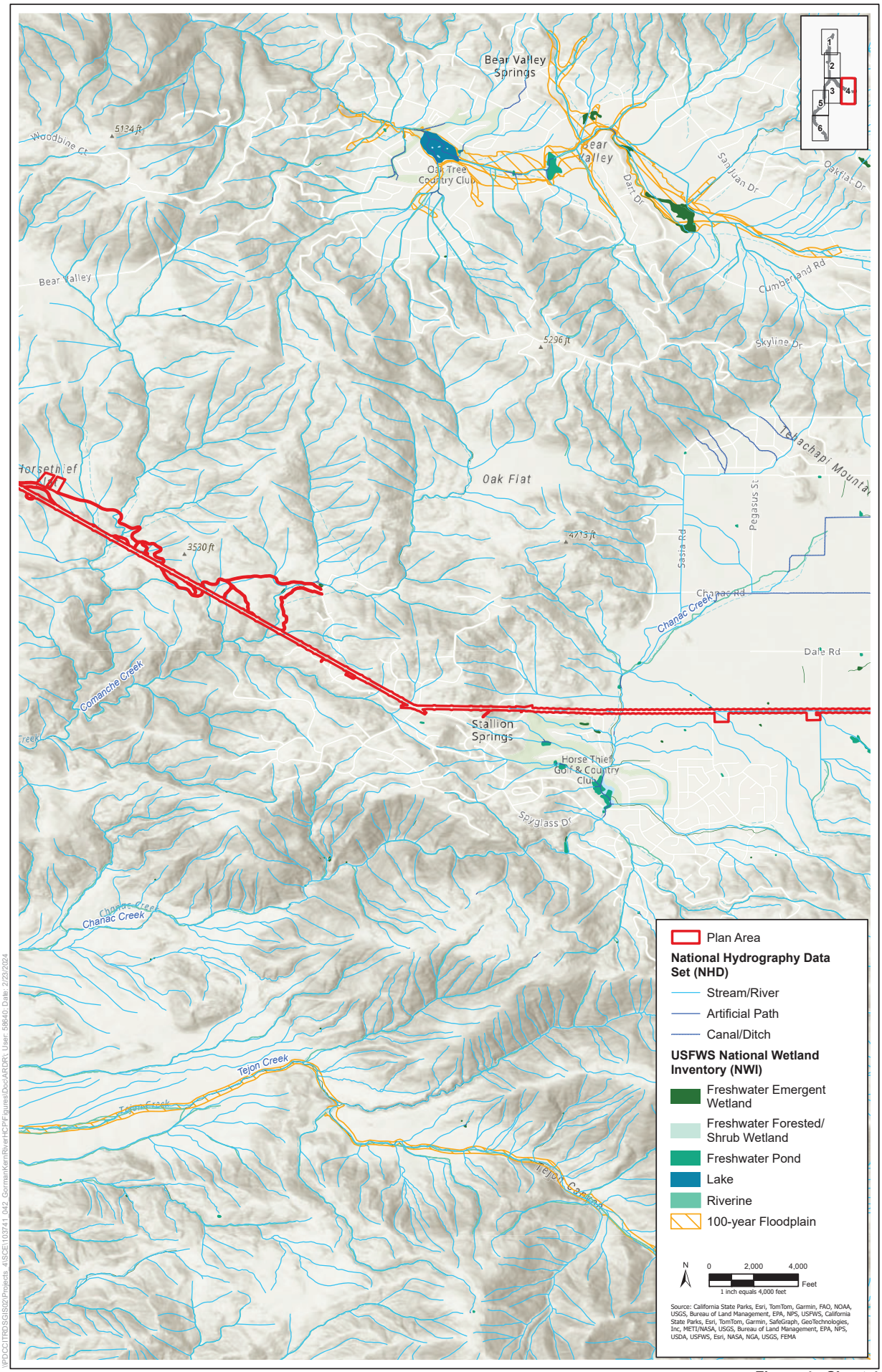

Figure 4 - Sheet 4
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

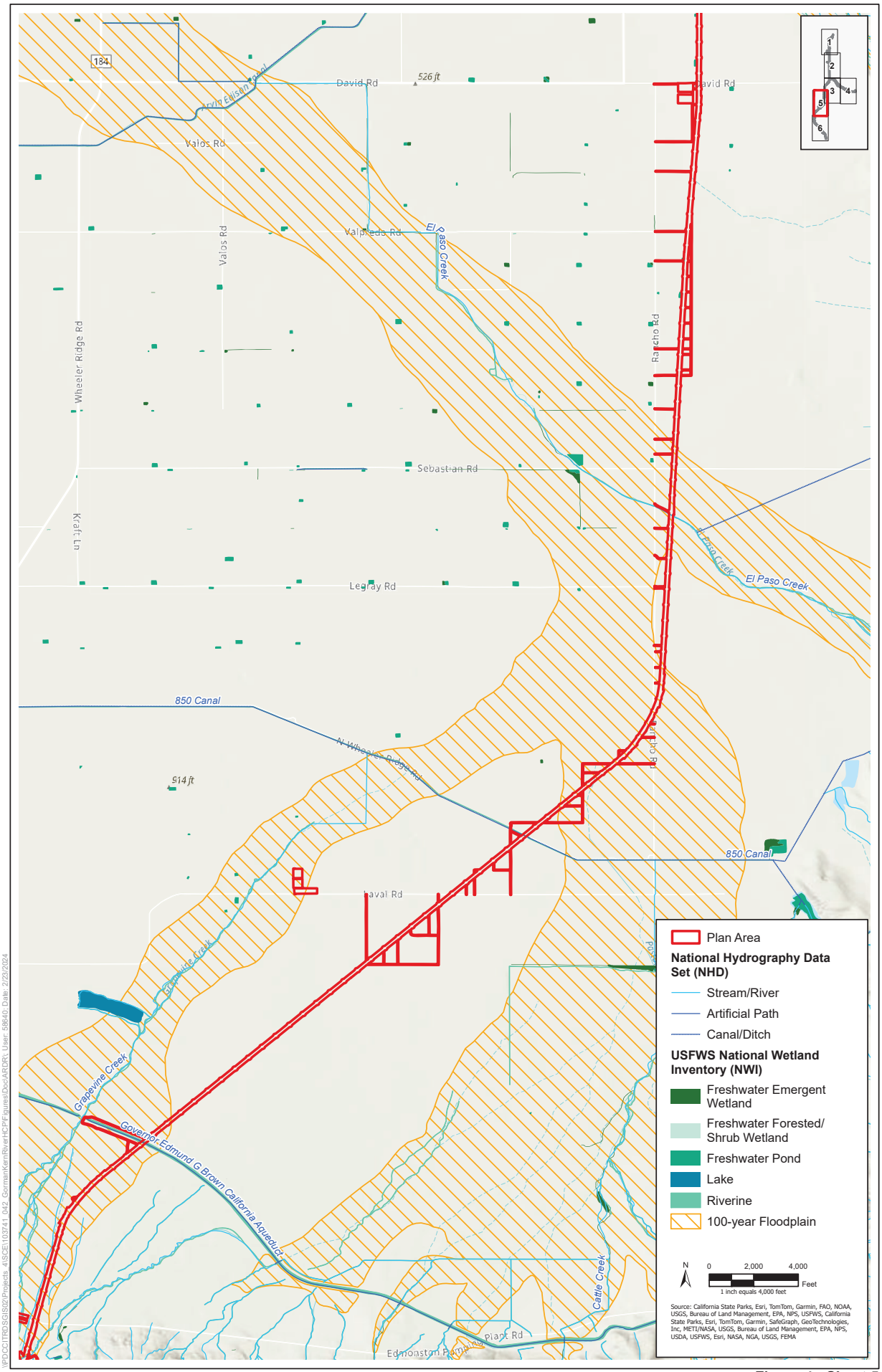

Figure 4 - Sheet 5
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

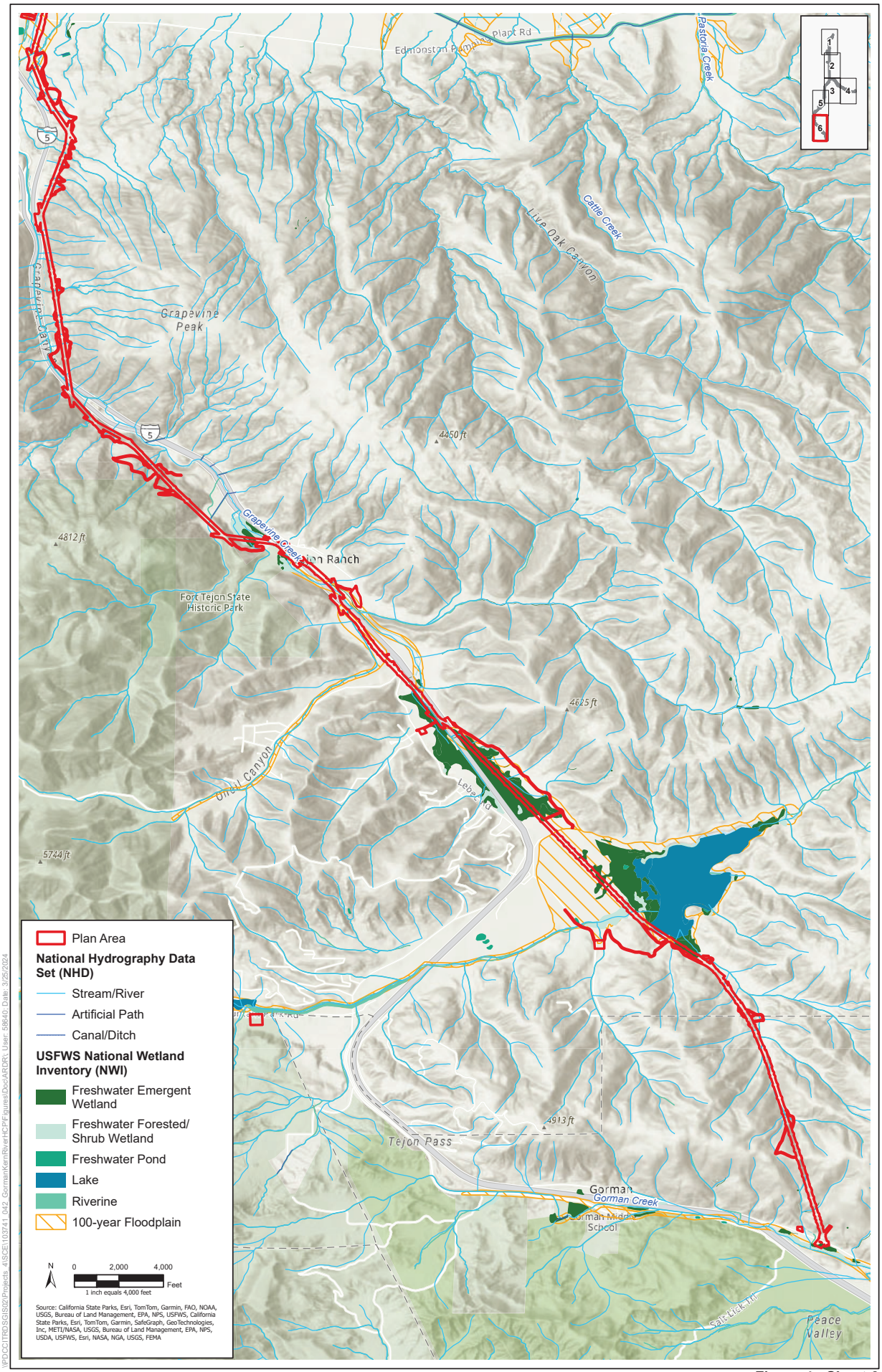

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Figure 4 - Sheet 6
Water Resources
Gorman-Kern River 66 kV Subtransmission Line Project

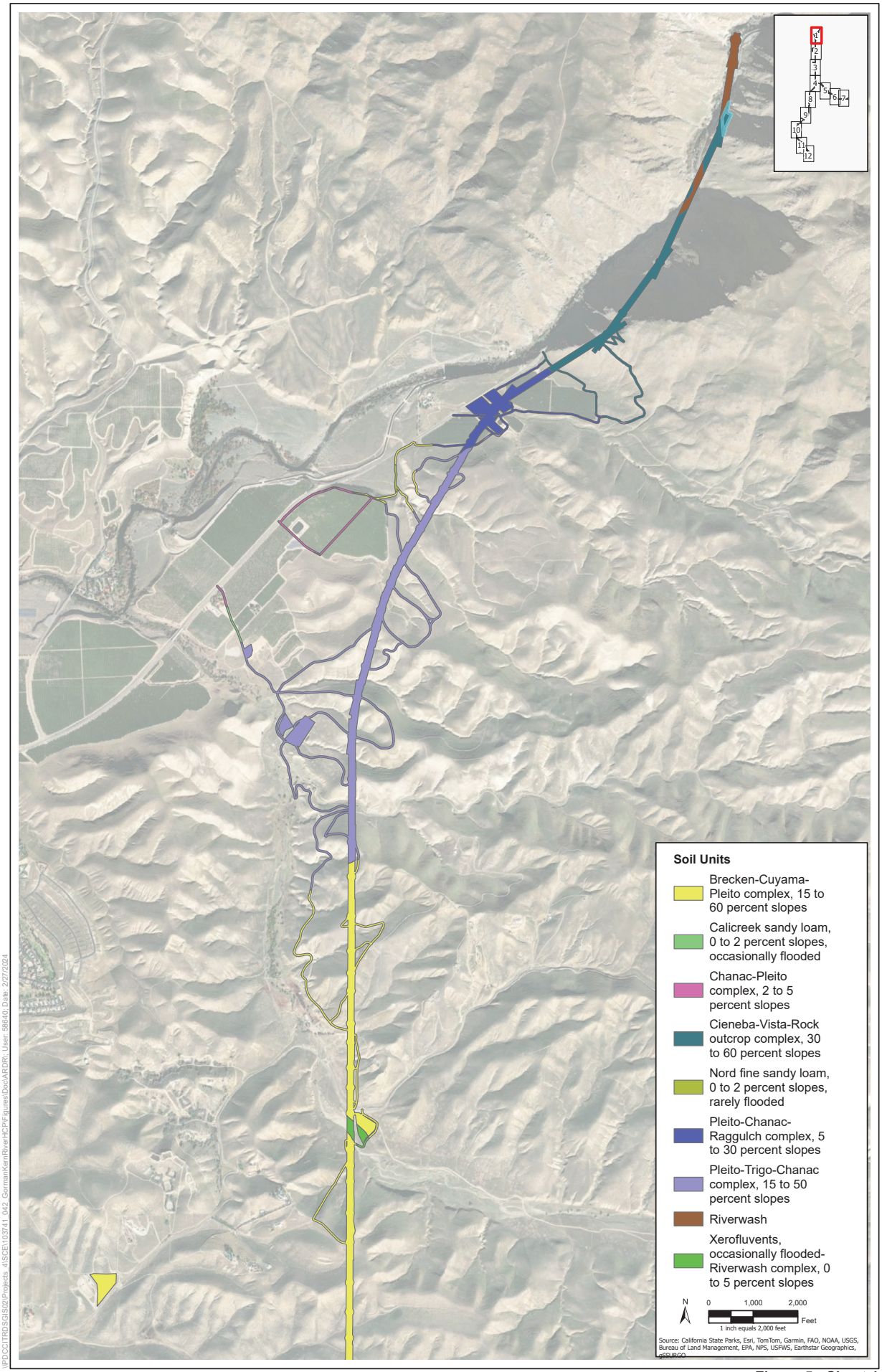

Figure 5 - Sheet 1
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

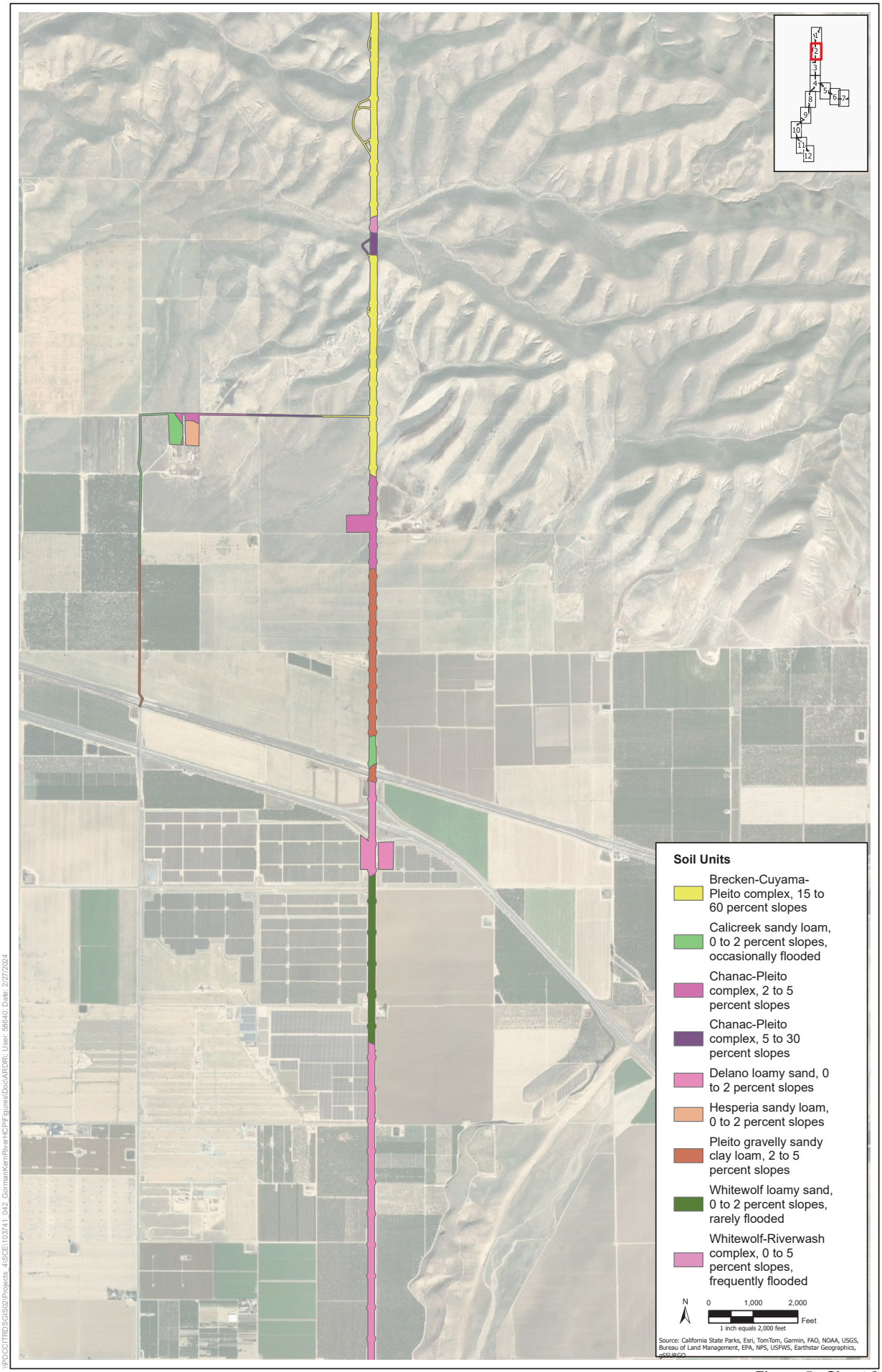

Figure 5 - Sheet 2
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

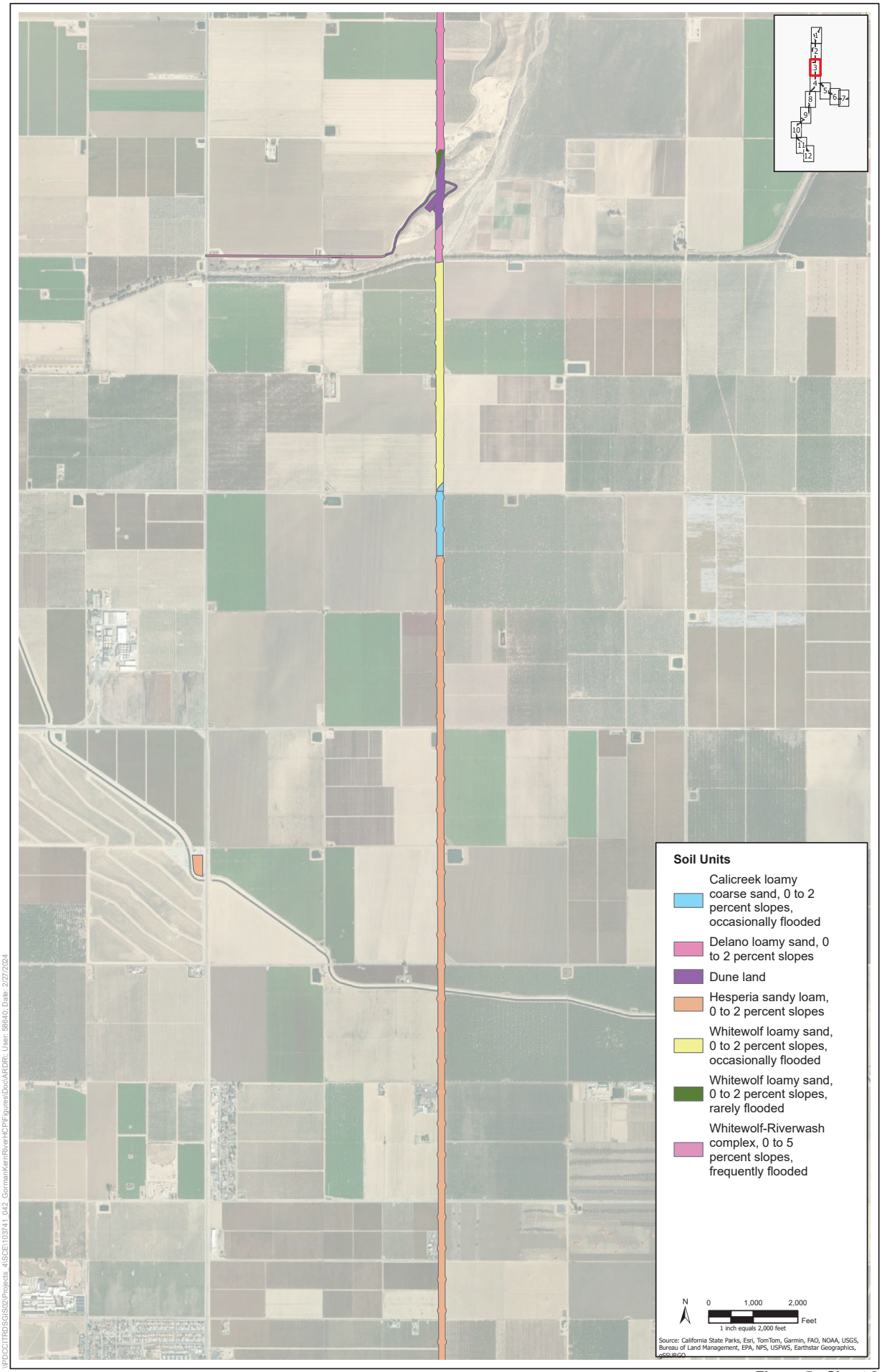

Figure 5 - Sheet 3
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

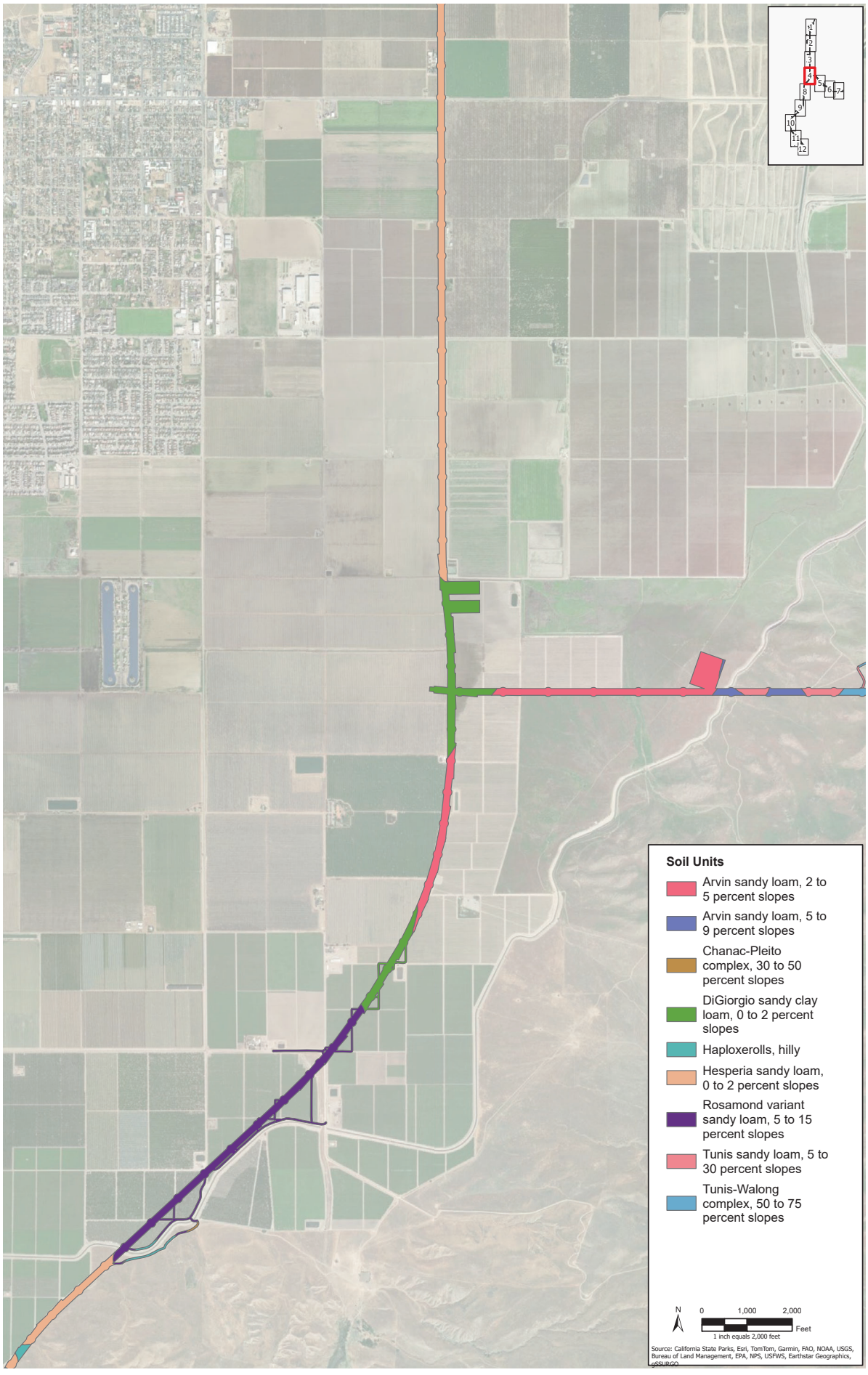

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Figure 5 - Sheet 4
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

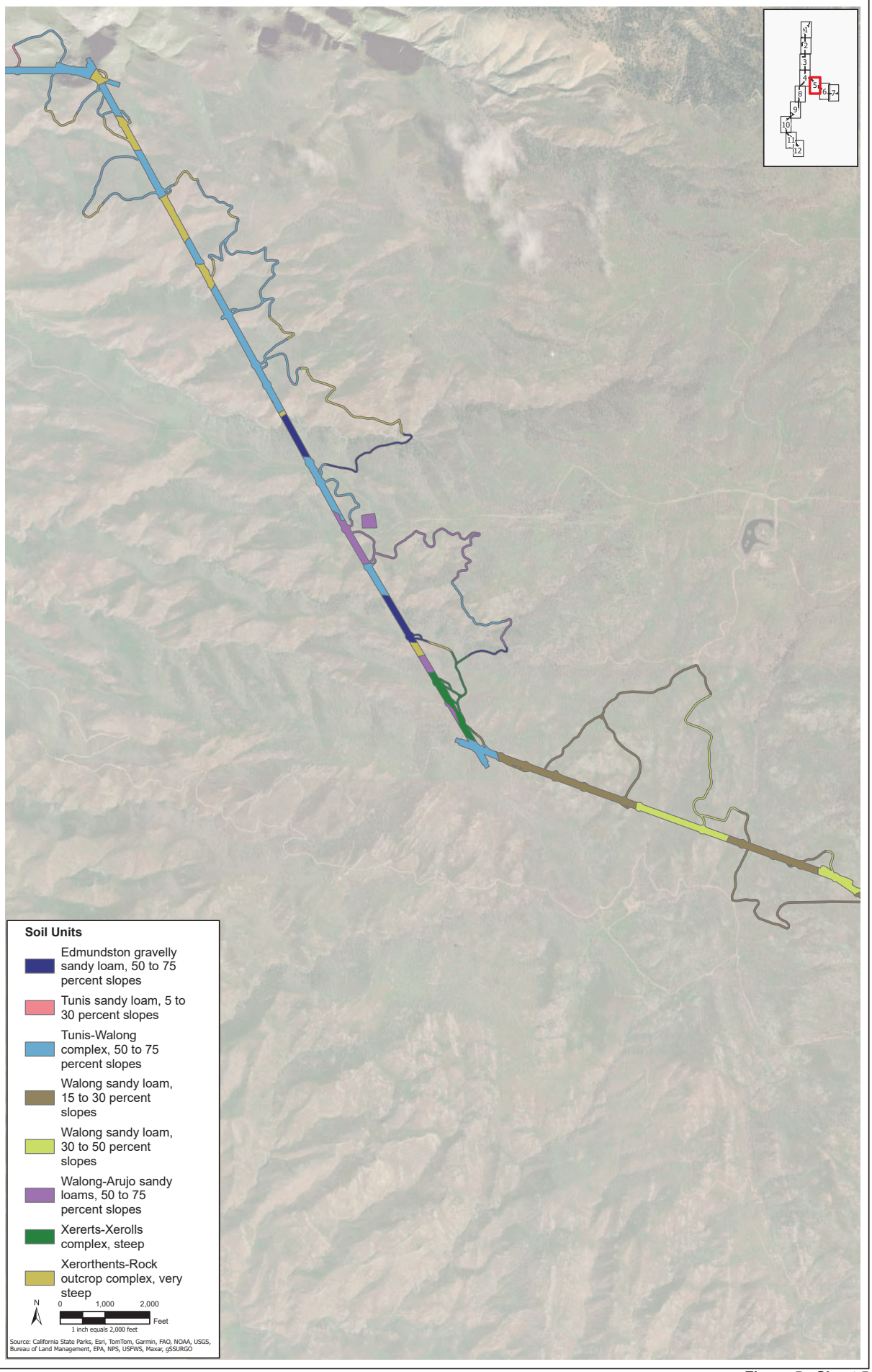

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Figure 5 - Sheet 5
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

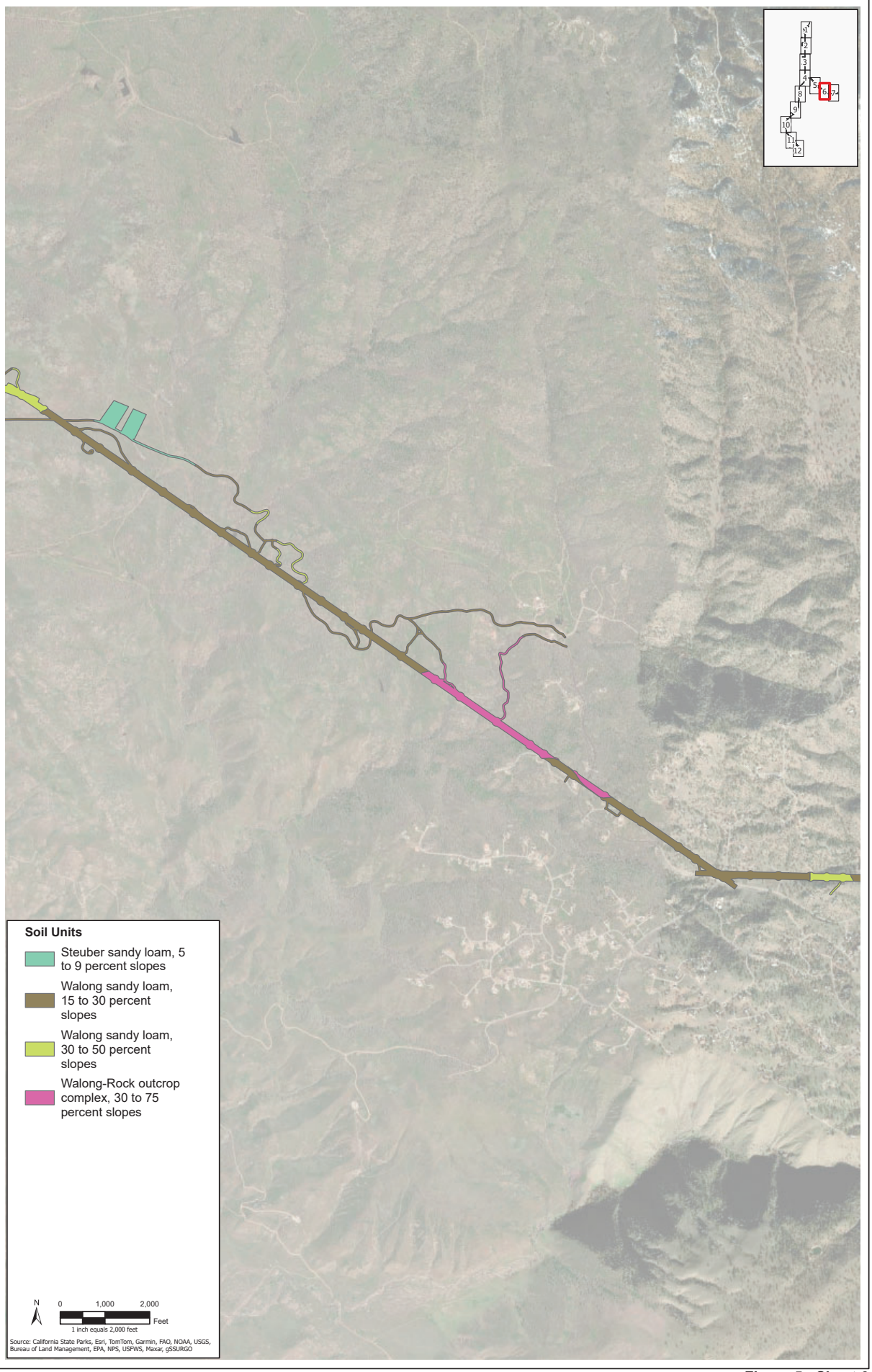

Figure 5 - Sheet 6
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

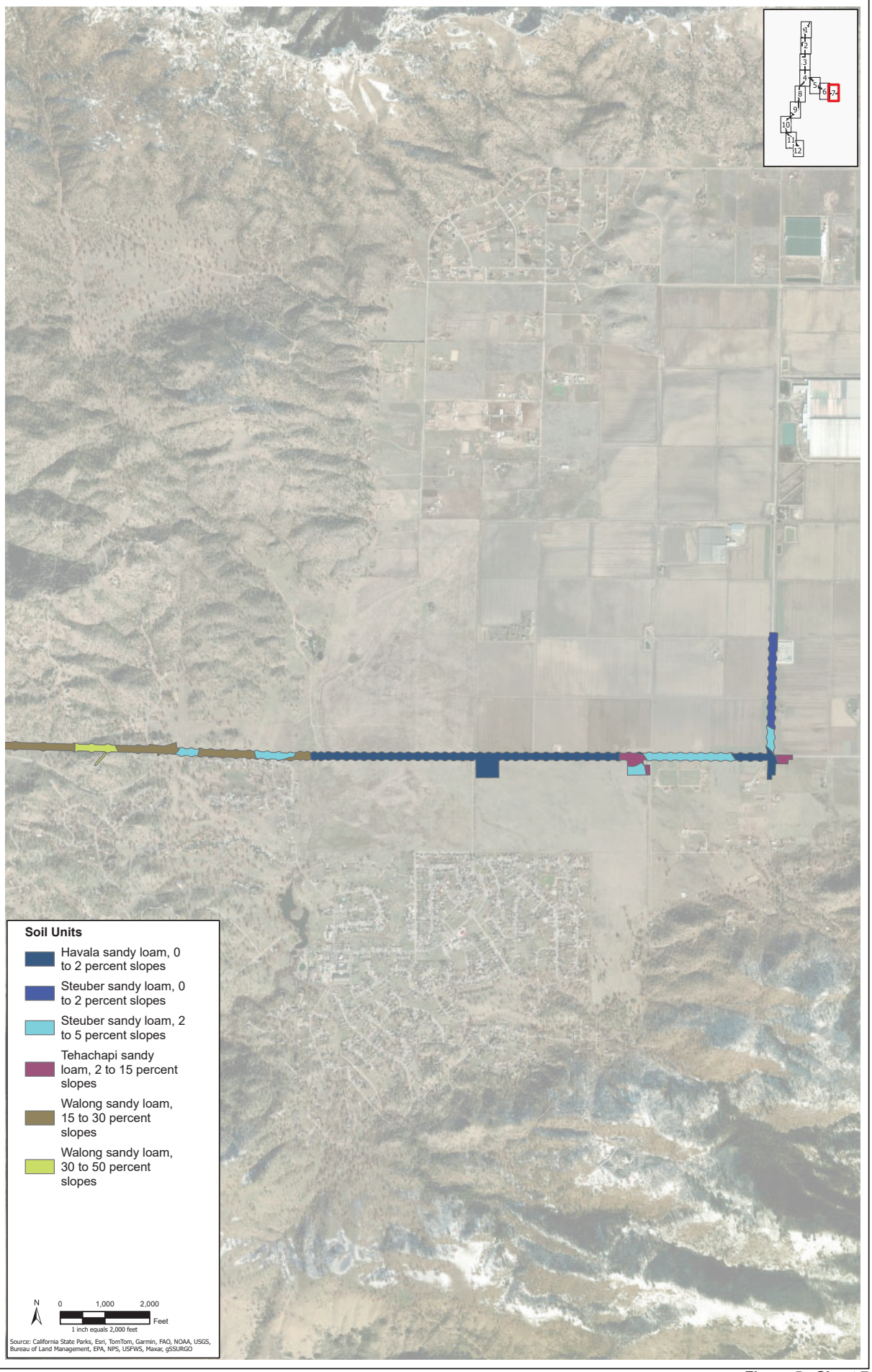

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Figure 5 - Sheet 7
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

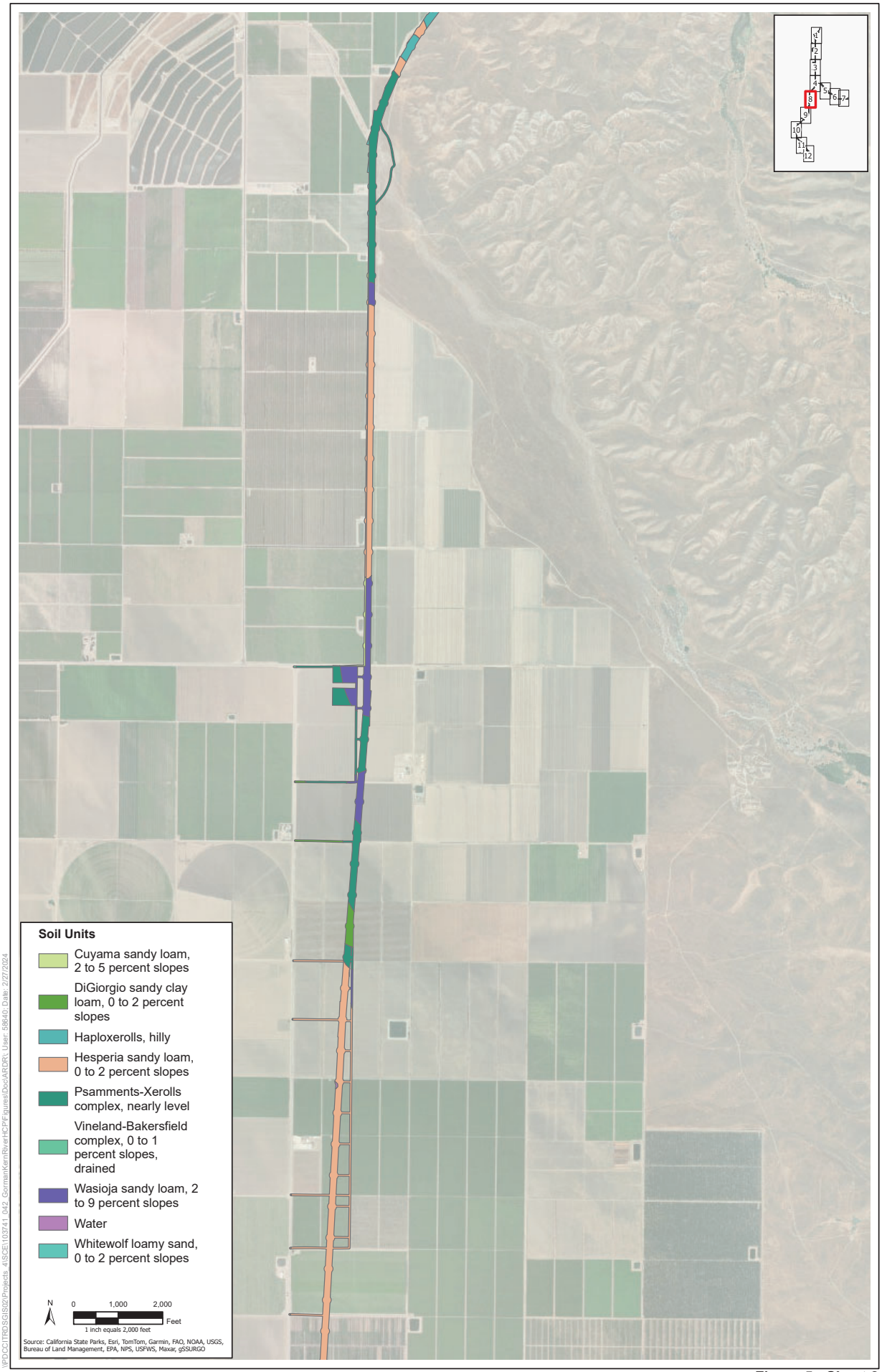

Figure 5 - Sheet 8
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

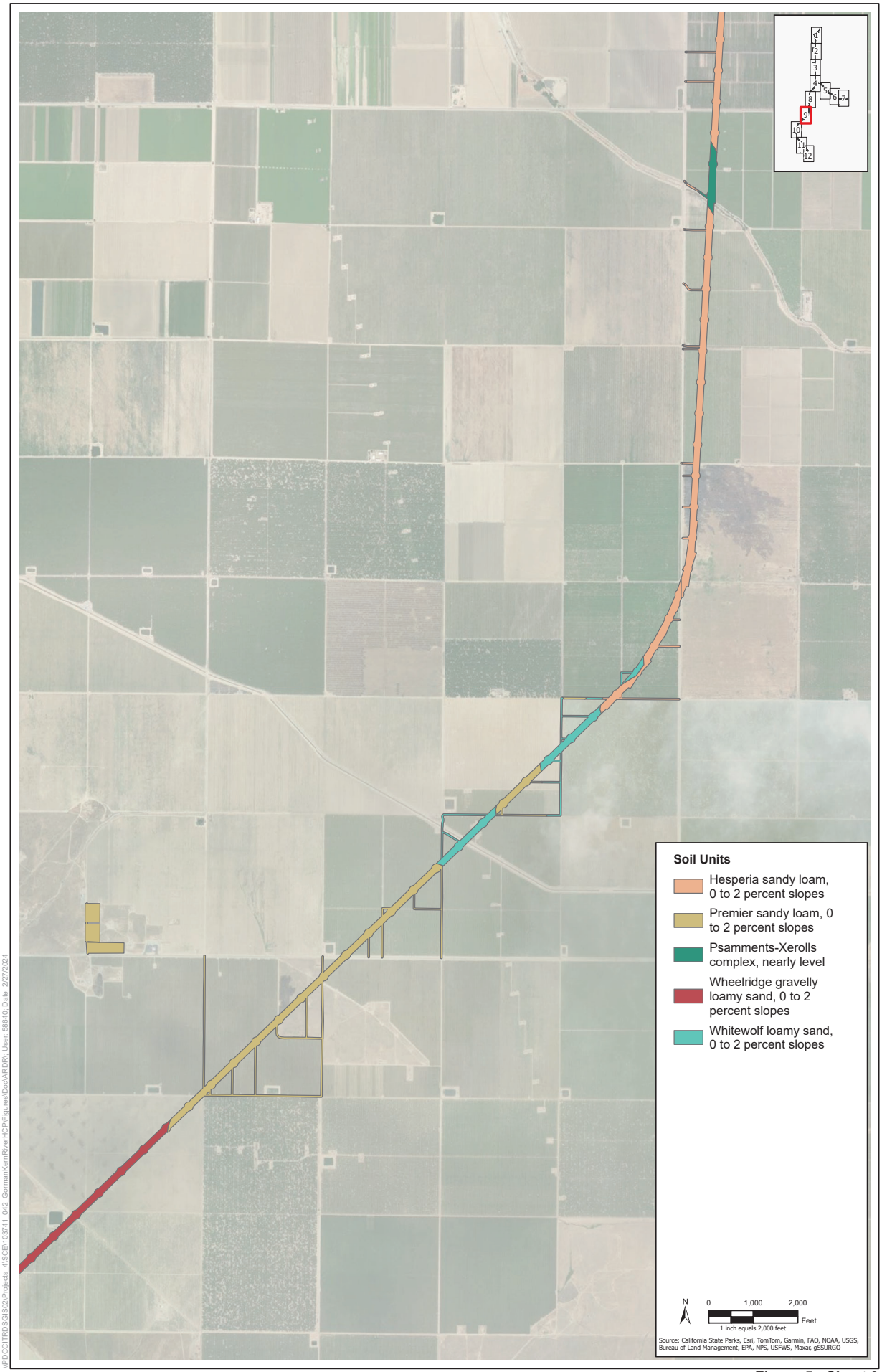

Figure 5 - Sheet 9
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

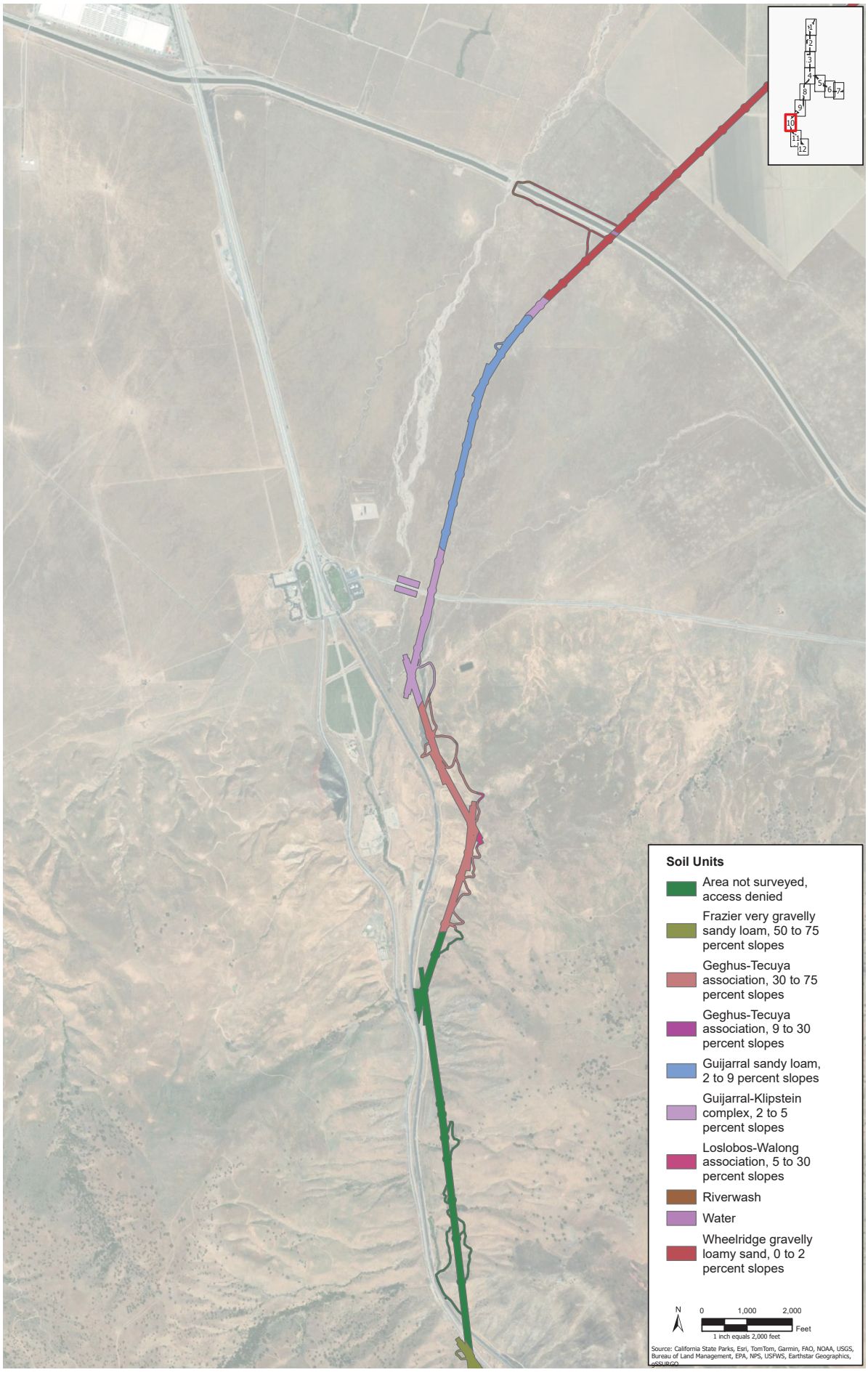

Figure 5 - Sheet 10
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

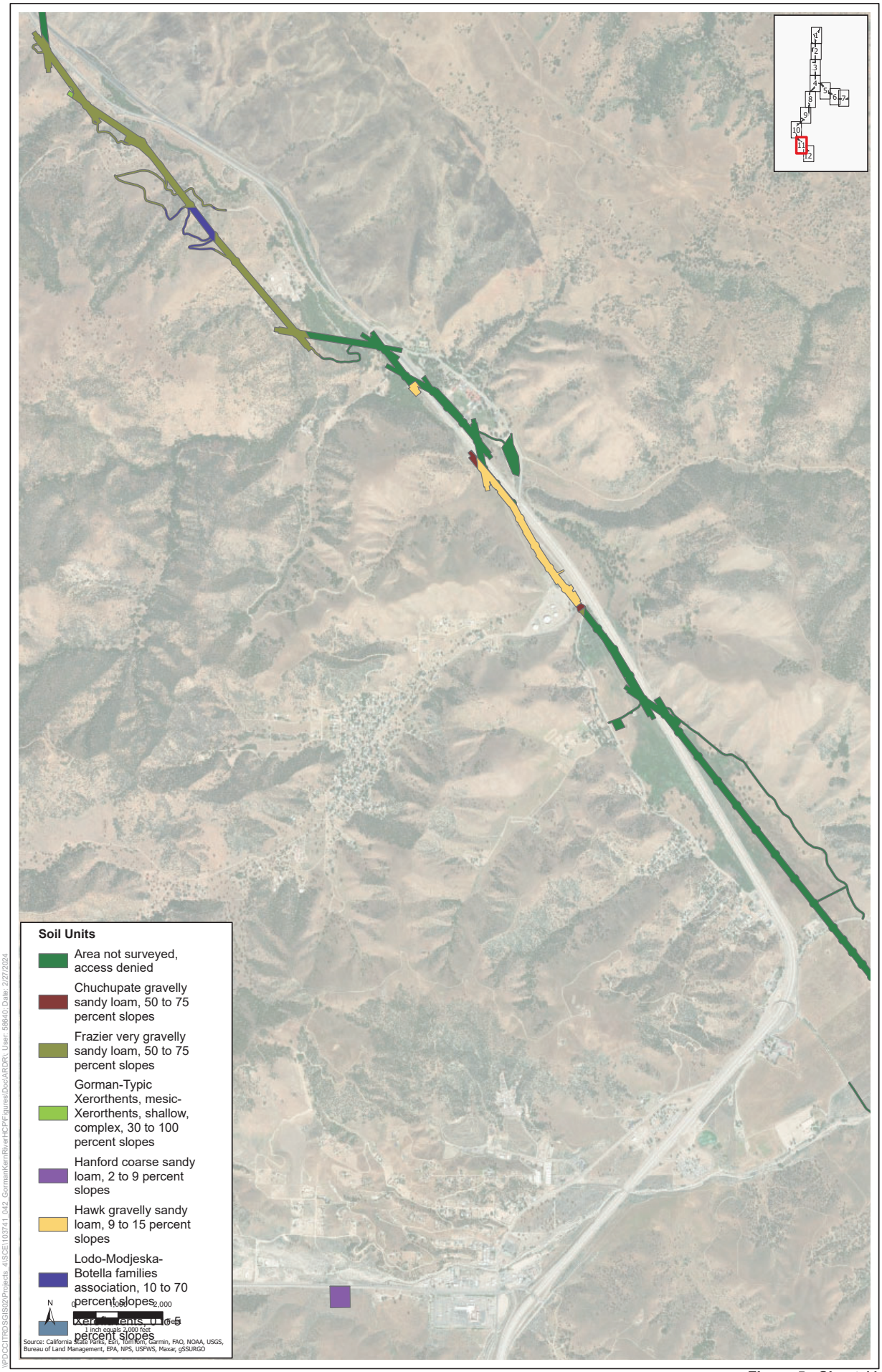

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Figure 5 - Sheet 11
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

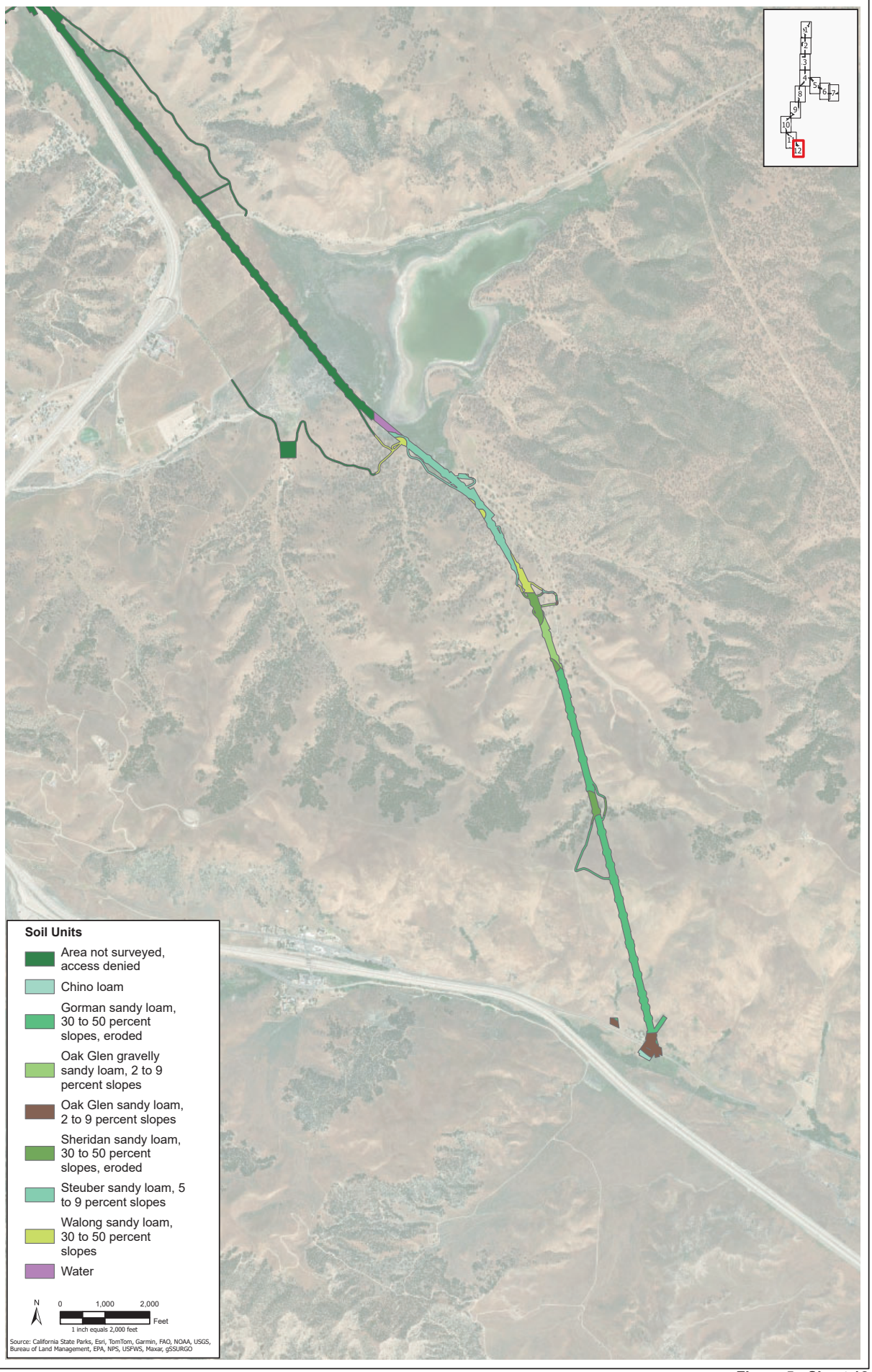


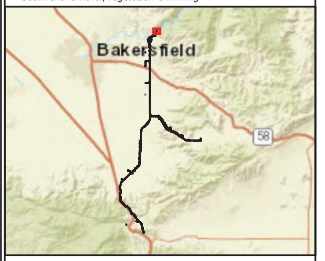
Figure 5 - Sheet 12
Soils
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- OHWM Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2023
Revised On: 6/27/2024

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on February 10, 2016, by:
Jason Deters, Project Manager
Enforcement and Special Projects Unit
U.S. Army Corps of Engineers
South Pacific Division
Sacramento District, Regulatory Division
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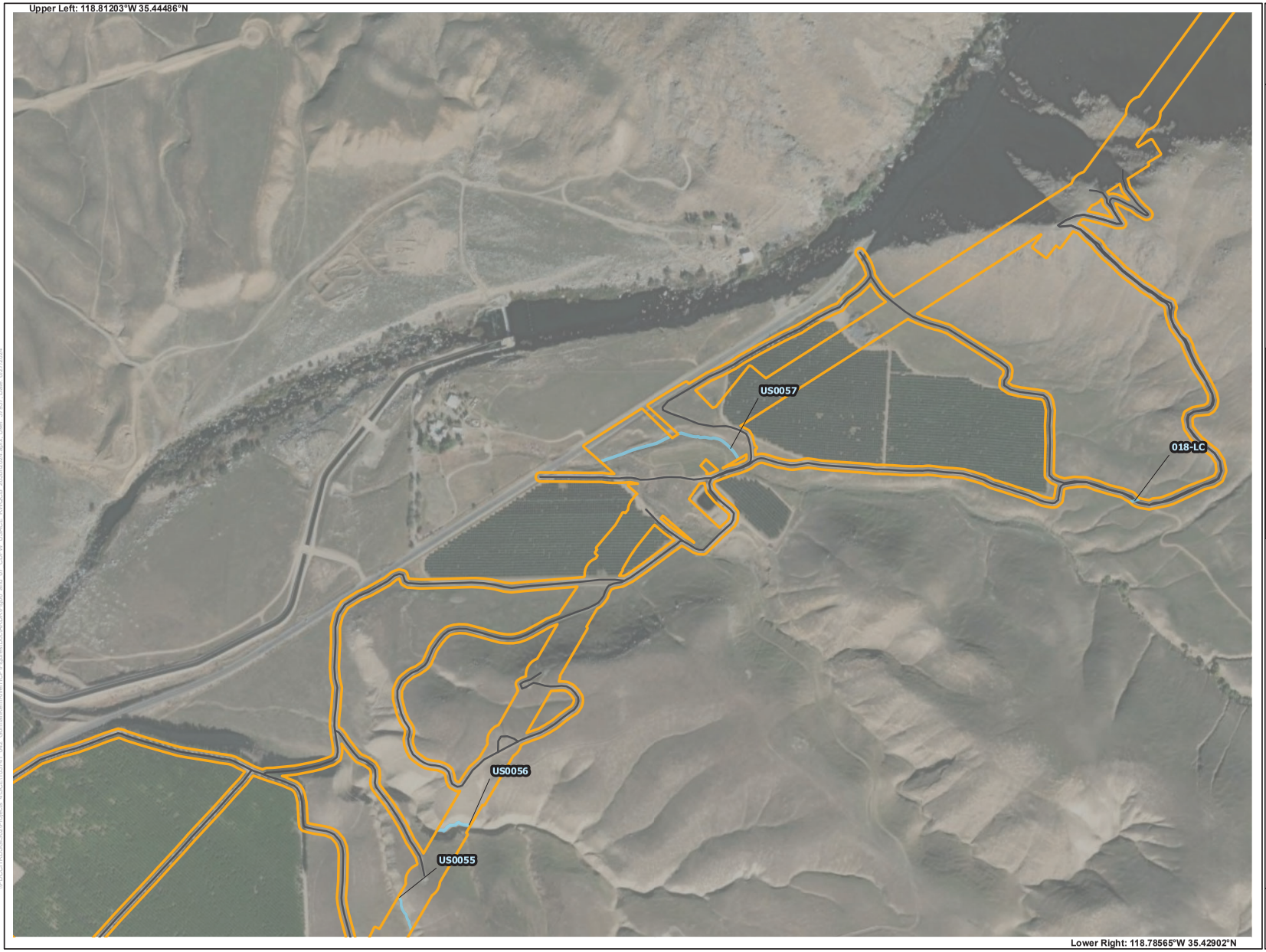
Figure 6, Sheet 1
Gorman-Kern River 66 kV Subtransmission Line Project

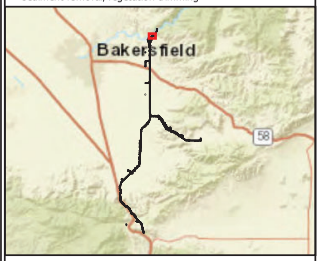


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



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Datum: North American 1983
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Figure 6, Sheet 2
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

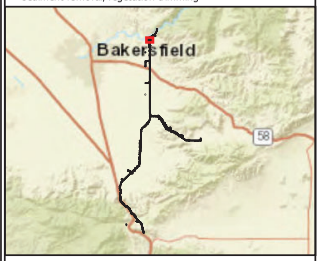

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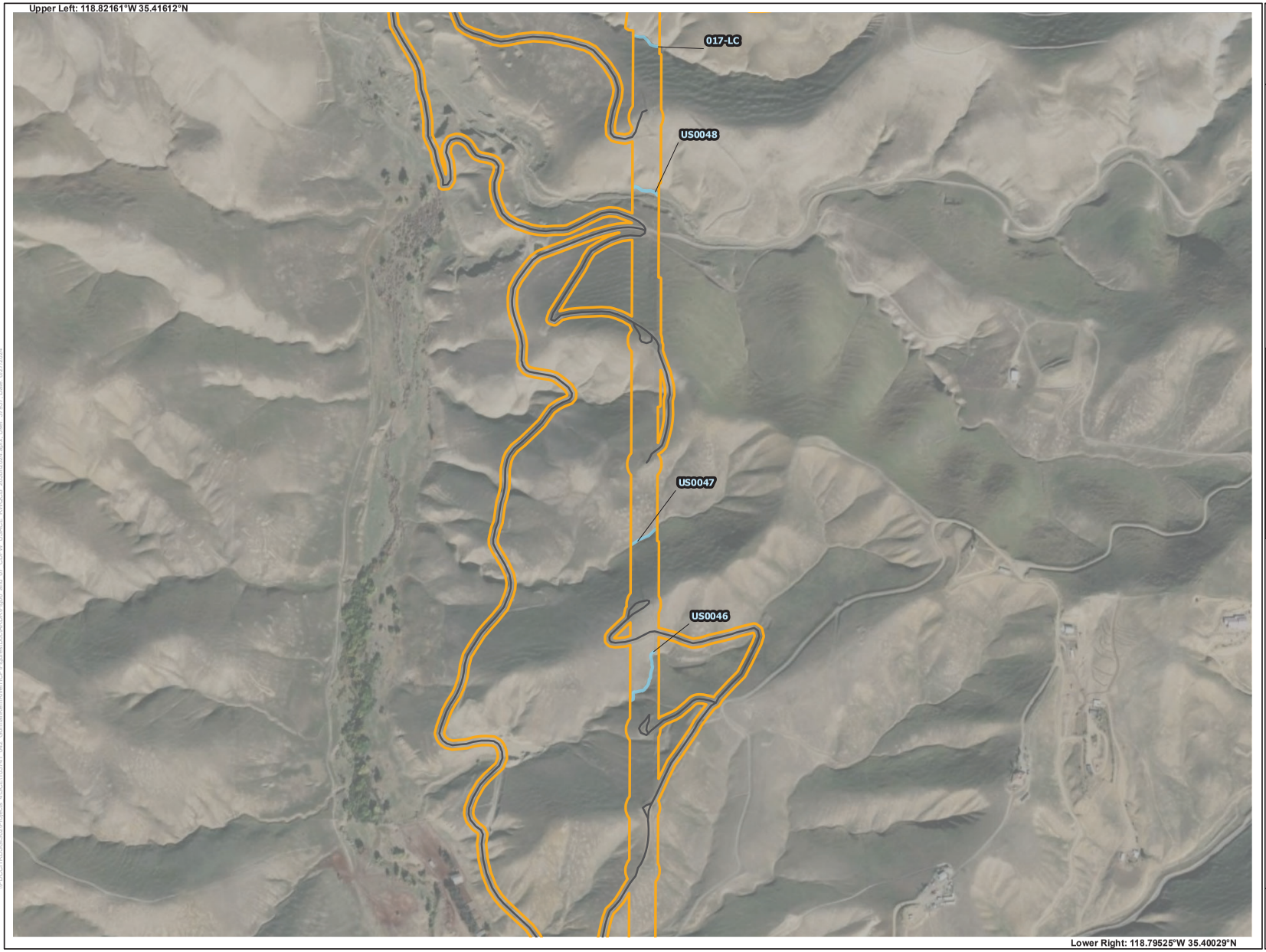
Figure 6, Sheet 3
Gorman-Kern River 66 kV Subtransmission Line Project

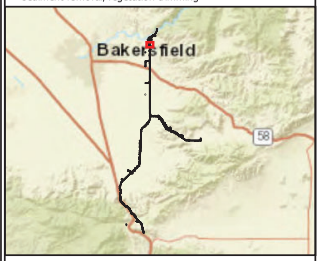


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



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Projection: Lambert Conformal Conic
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Figure 6, Sheet 4
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- OHWM Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming

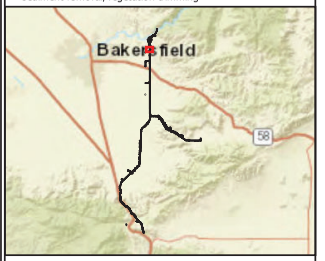

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Figure 6, Sheet 5
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

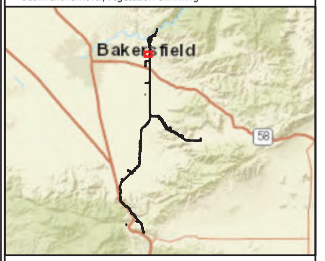

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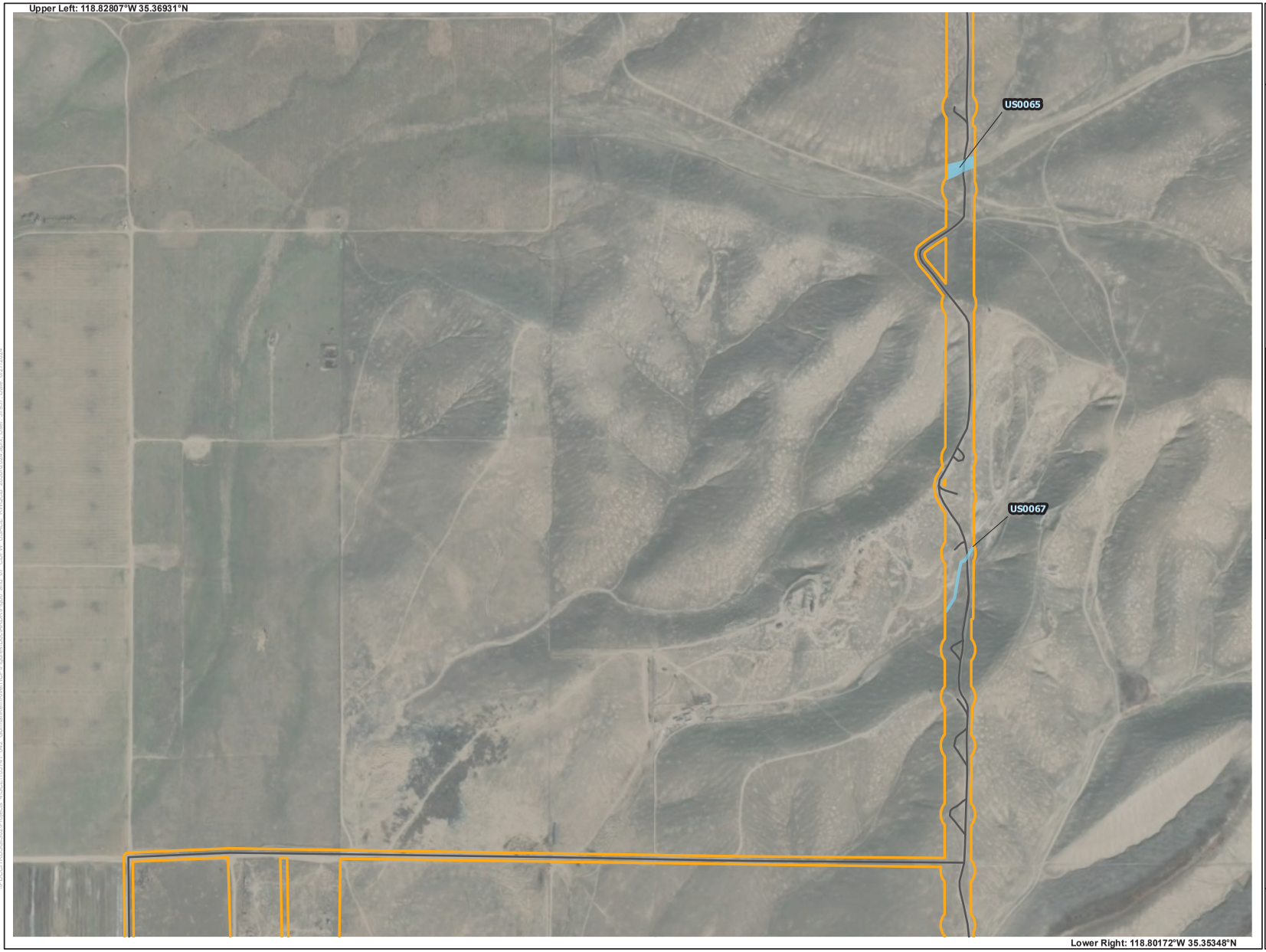
Figure 6, Sheet 6
Gorman-Kern River 66 kV Subtransmission Line Project



USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

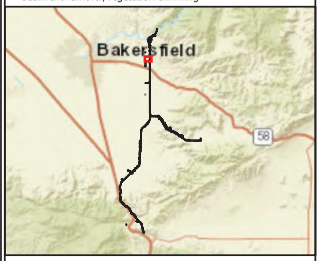


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Figure 6, Sheet 7
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Waters Photo Points

*sediment removal/vegetation trimming

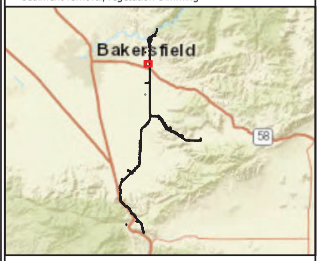

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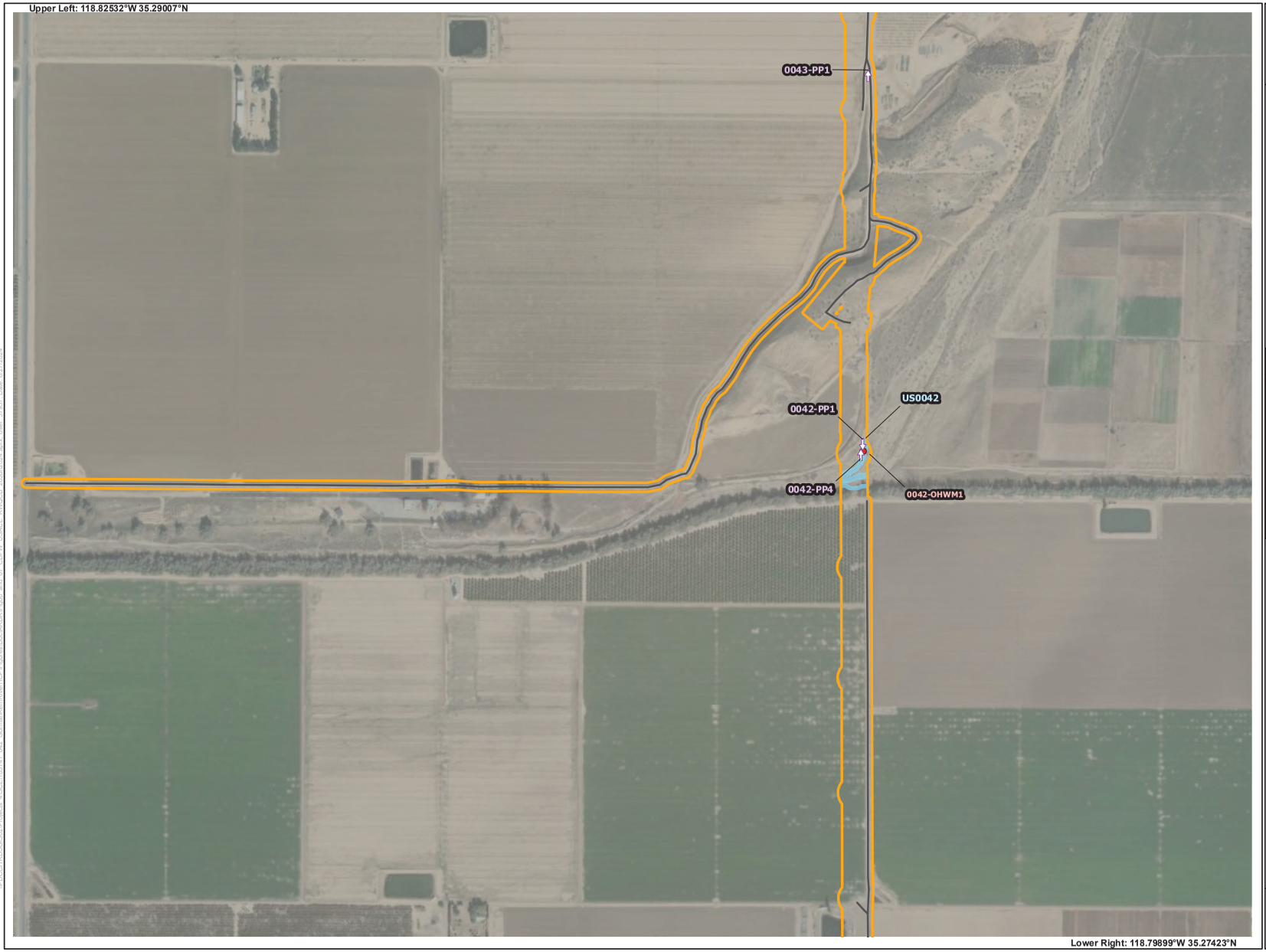
Figure 6, Sheet 8
Gorman-Kern River 66 kV Subtransmission Line Project

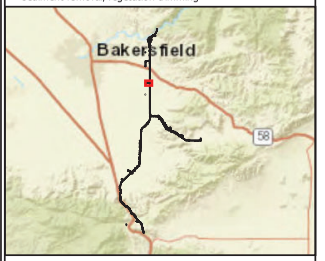


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- OHWM Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



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0 250 500 Feet
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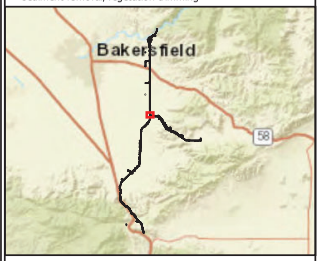
Figure 6, Sheet 9
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Revised On: 6/27/2024

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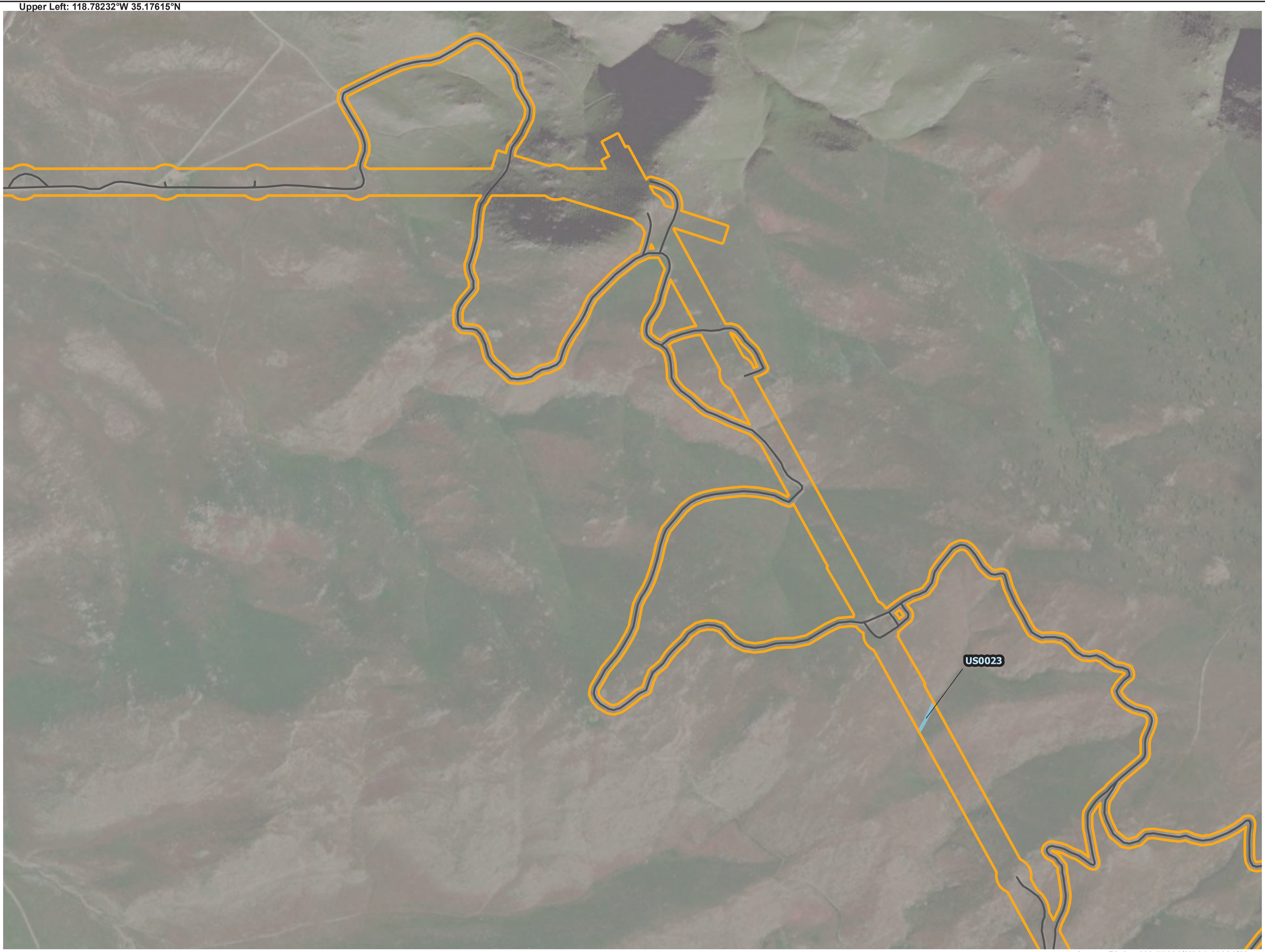
Figure 6, Sheet 10
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.78232°W 35.17615°N



Lower Right: 118.75603°W 35.16031°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 11
Gorman-Kern River 66 kV Subtransmission Line Project

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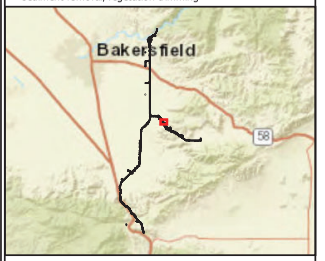
USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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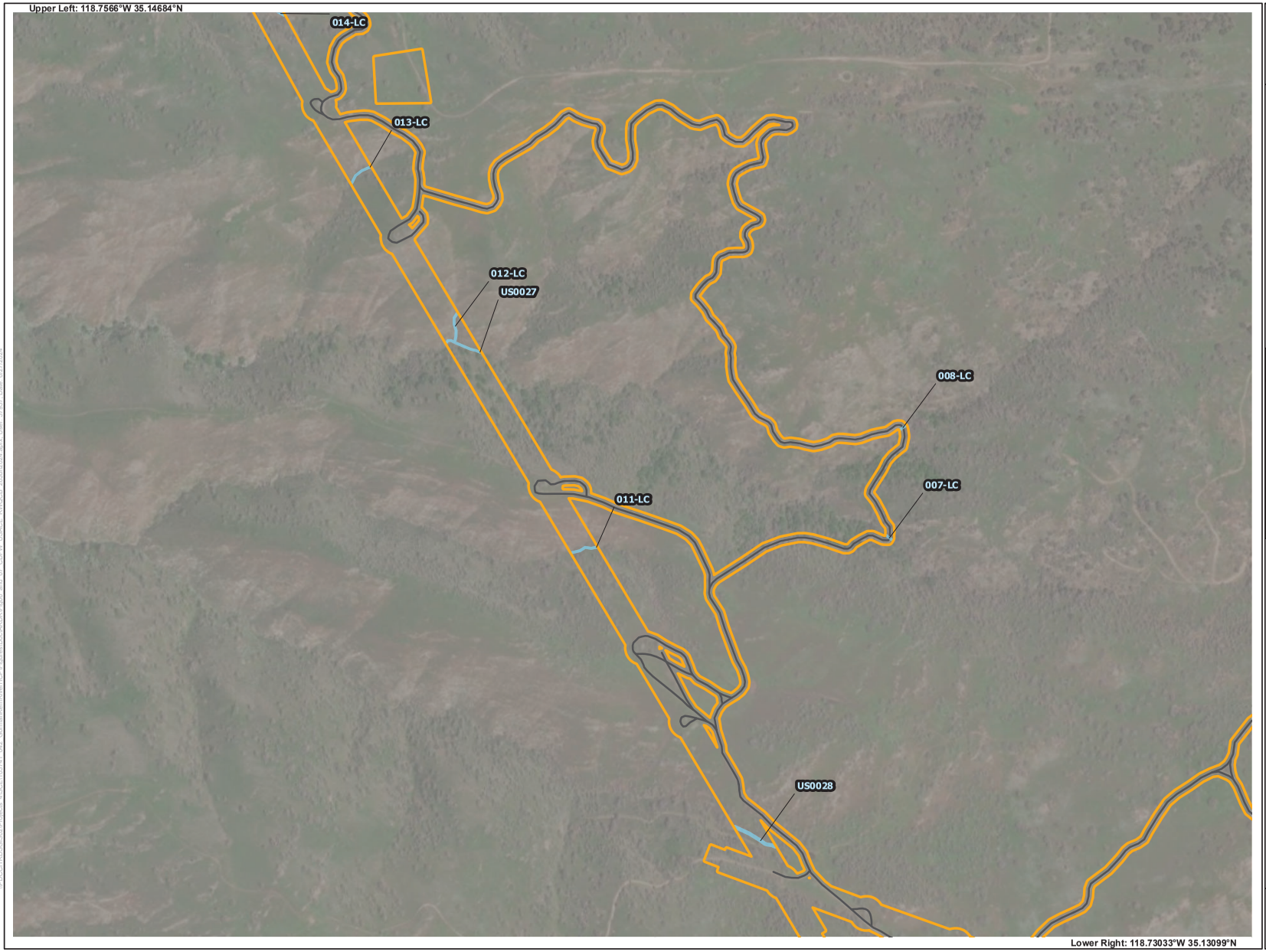
Figure 6, Sheet 12
Gorman-Kern River 66 kV Subtransmission Line Project

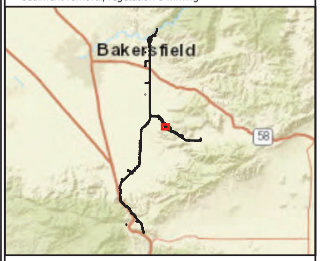


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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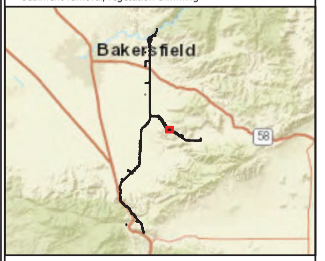
Figure 6, Sheet 13
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- OHWM Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 14
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Waters of the U.S.

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 15
Gorman-Kern River 66 kV Subtransmission Line Project

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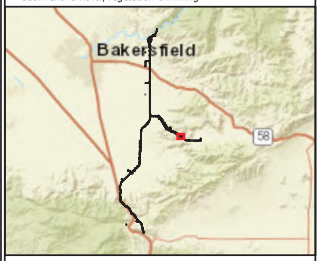
USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 16
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.66999°W 35.10414°N

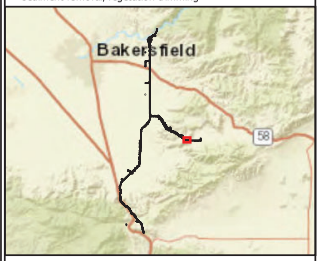
Lower Right: 118.64375°W 35.08827°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



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Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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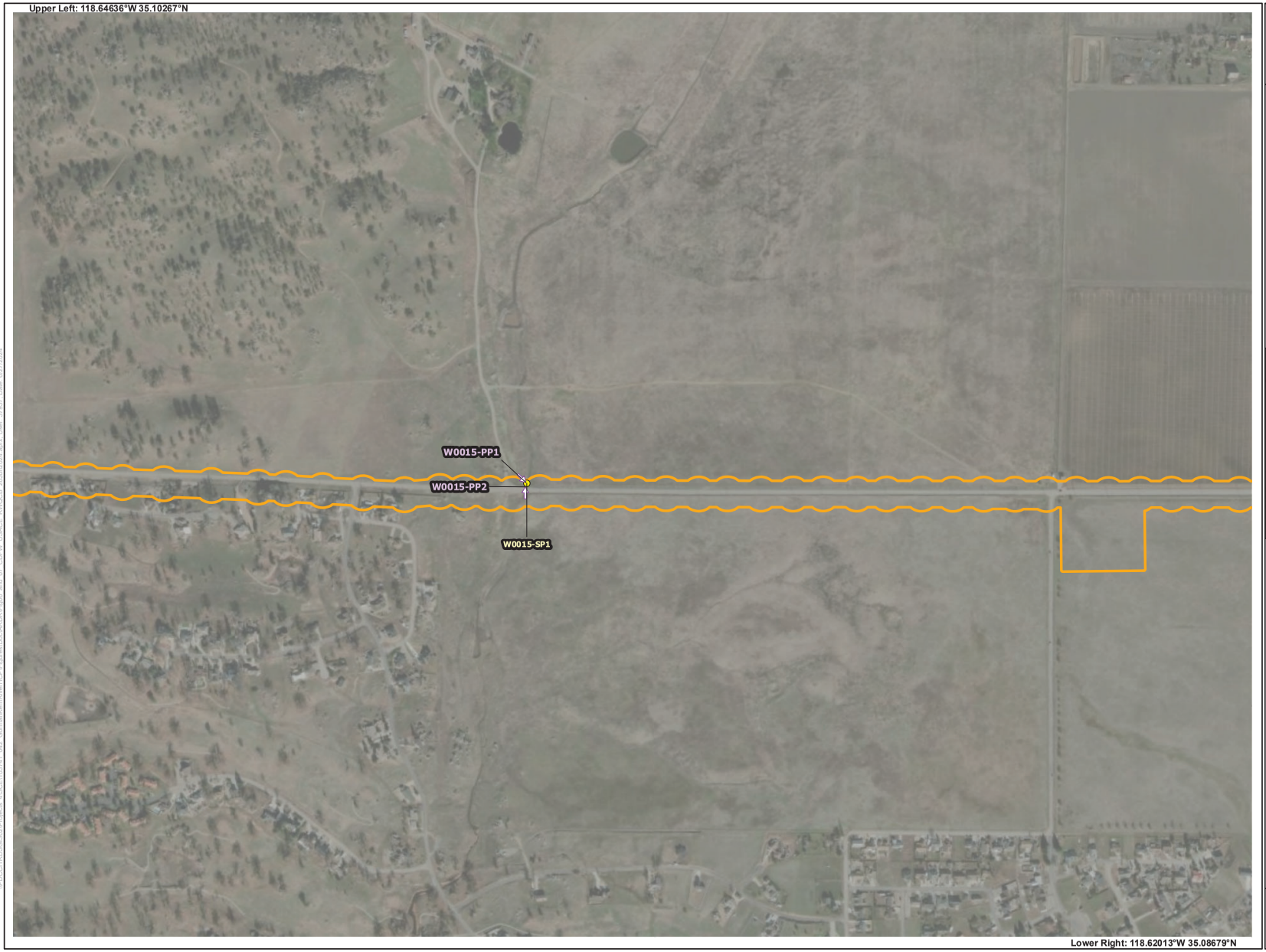
Figure 6, Sheet 17
Gorman-Kern River 66 kV Subtransmission Line Project

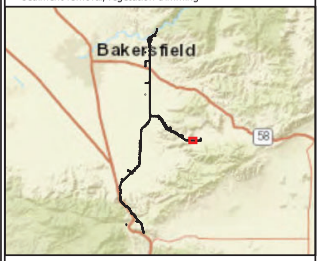


USACE/RWQCB Results Map

Legend

- Survey Area
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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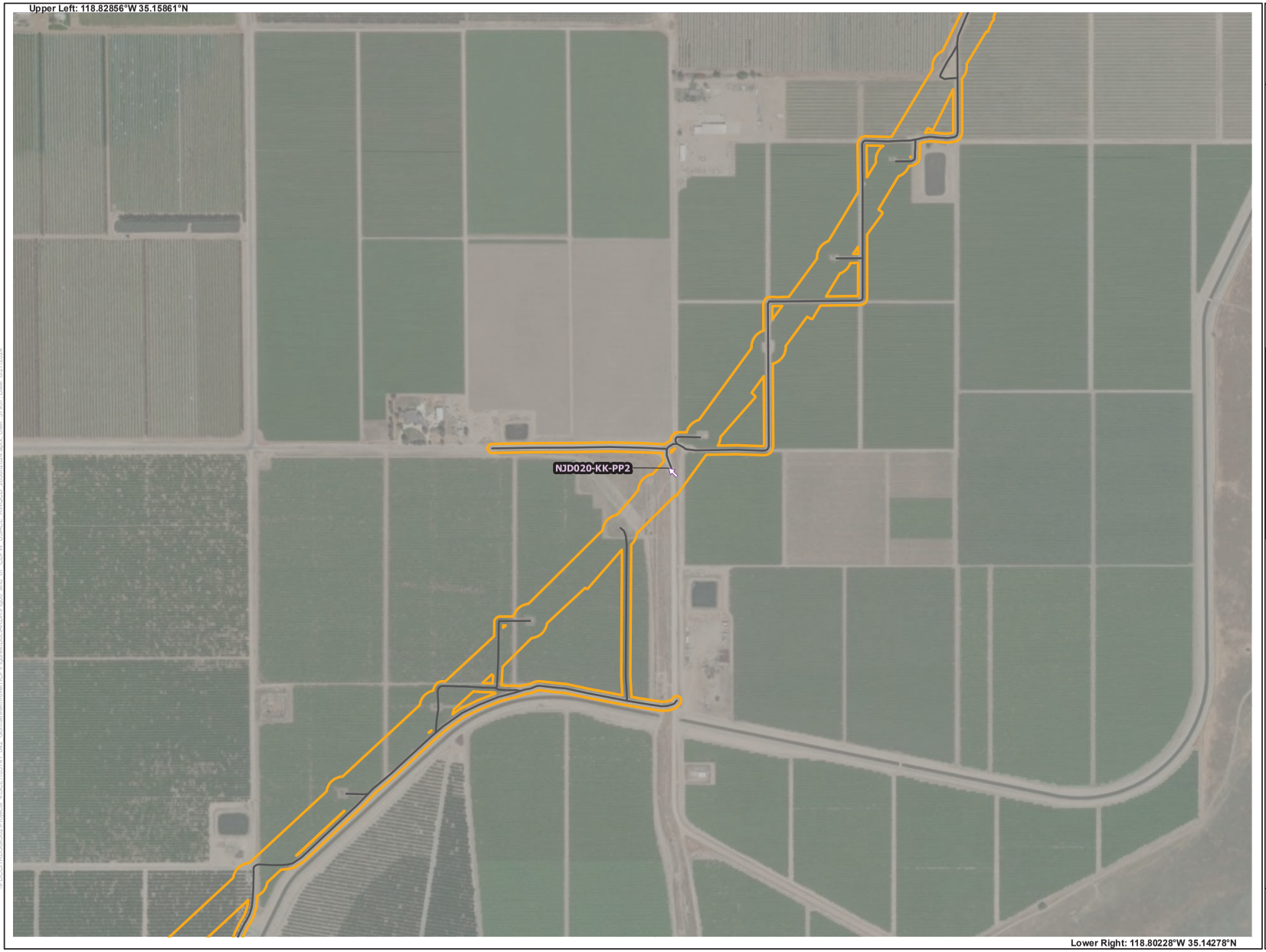
Figure 6, Sheet 18
Gorman-Kern River 66 kV Subtransmission Line Project

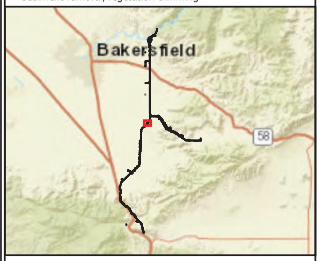


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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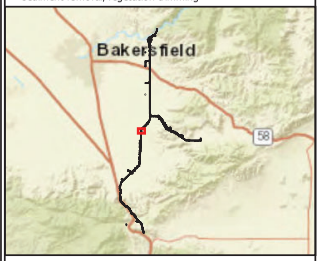
Figure 6, Sheet 19
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 6, Sheet 20
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.85612°W 35.05289°N

Lower Right: 118.82986°W 35.03706°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 21
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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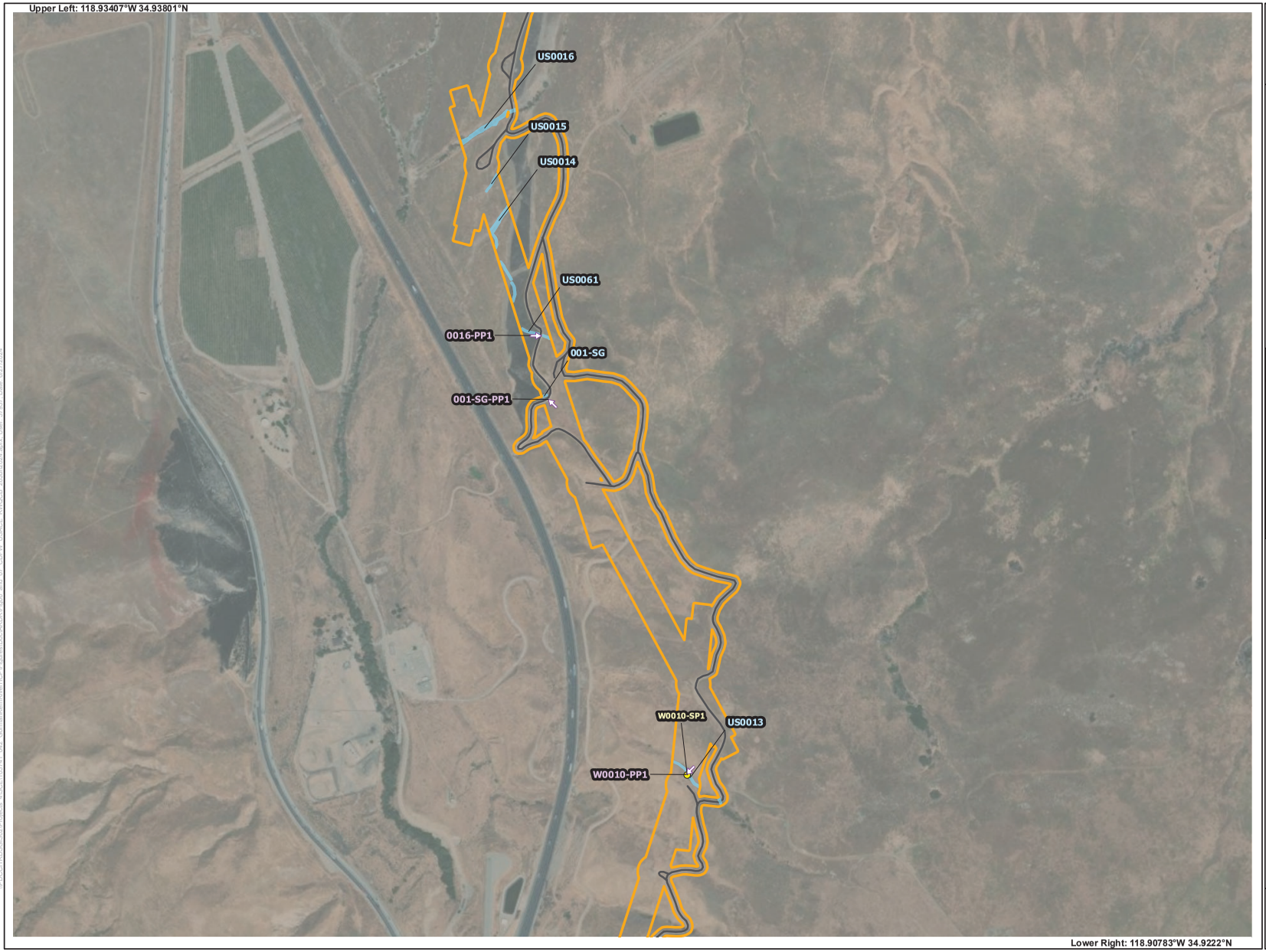
ICF

Figure 6, Sheet 22
Gorman-Kern River 66 kV Subtransmission Line Project

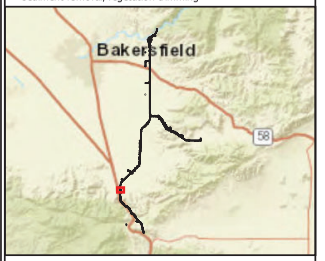


USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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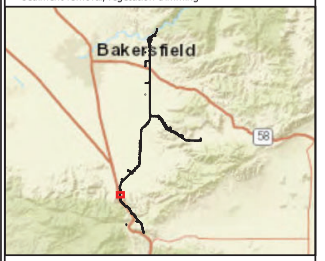
Figure 6, Sheet 23
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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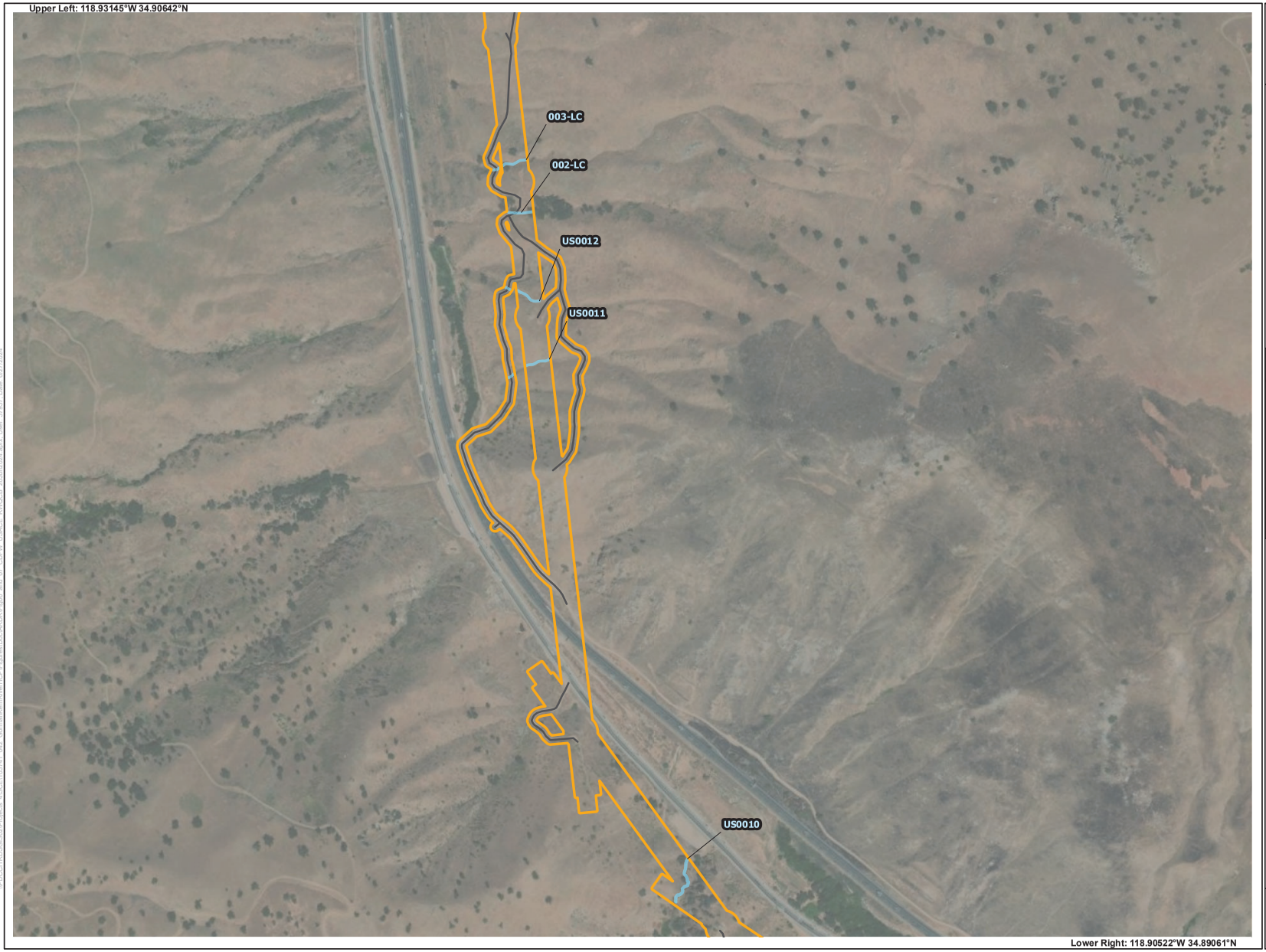
Figure 6, Sheet 24
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.93145°W 34.90642°N



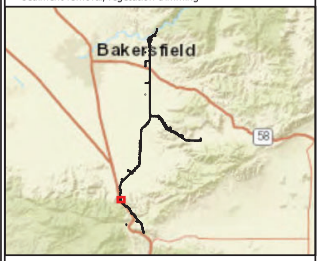
Lower Right: 118.90522°W 34.89061°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2023
Revised On: 6/27/2024

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Jason Deters, Project Manager
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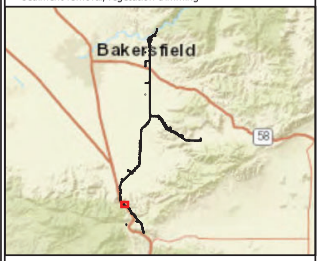
Figure 6, Sheet 25
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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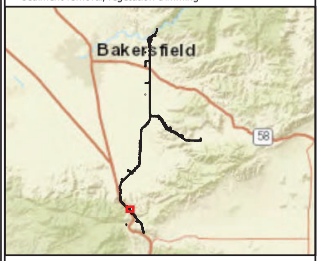
Figure 6, Sheet 26
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Revised On: 6/27/2024

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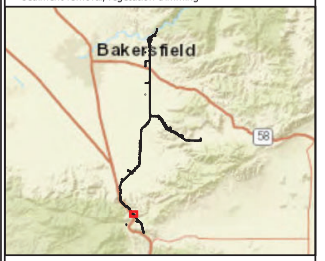
Figure 6, Sheet 27
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Waters of the U.S.
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

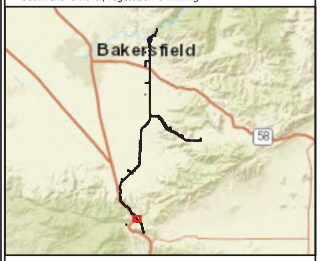
Figure 6, Sheet 28
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- OHWM Sample Points
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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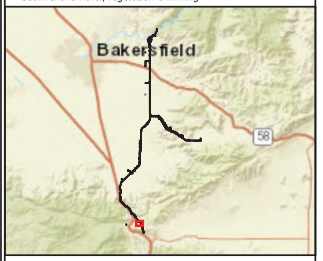
Figure 6, Sheet 29
Gorman-Kern River 66 kV Subtransmission Line Project

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 30
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.84099°W 34.8128°N

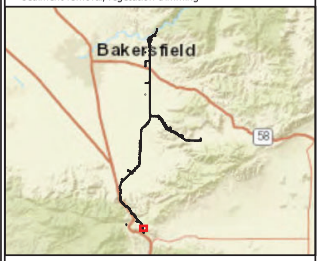
Lower Right: 118.81481°W 34.79696°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 31
Gorman-Kern River 66 kV Subtransmission Line Project

Upper Left: 118.84097°W 34.80078°N

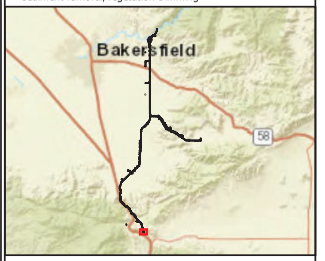
Lower Right: 118.81479°W 34.78495°N

USACE/RWQCB Results Map

Legend

- Survey Area
- Access Road
- Non-Wetland Waters of the U.S.
- Wetland Sample Points
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Figure 6, Sheet 32
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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0 250 500 Feet

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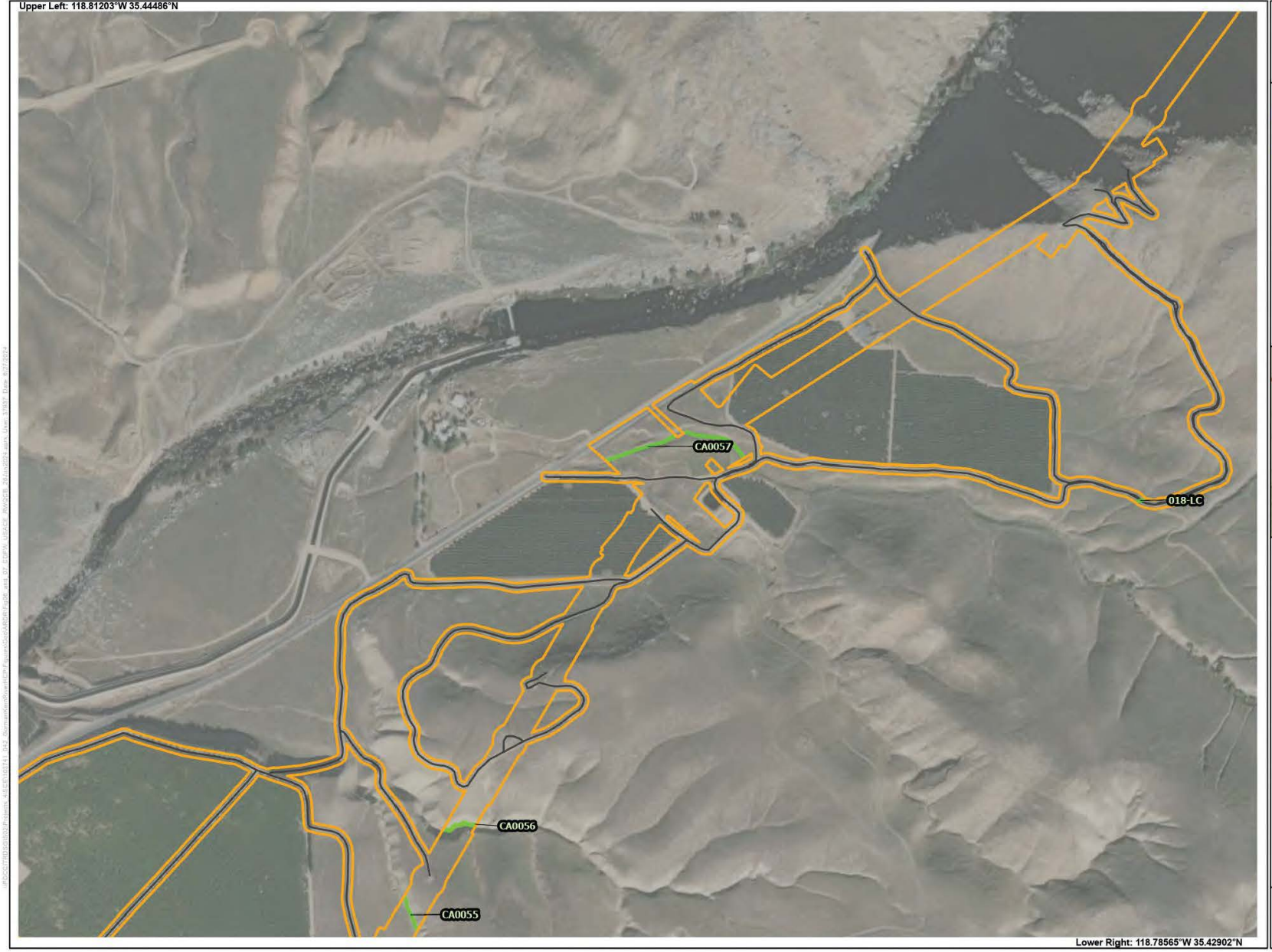
ICF

Figure 7, Sheet 1
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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N

0 250 500 Feet

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ICF

Figure 7, Sheet 2
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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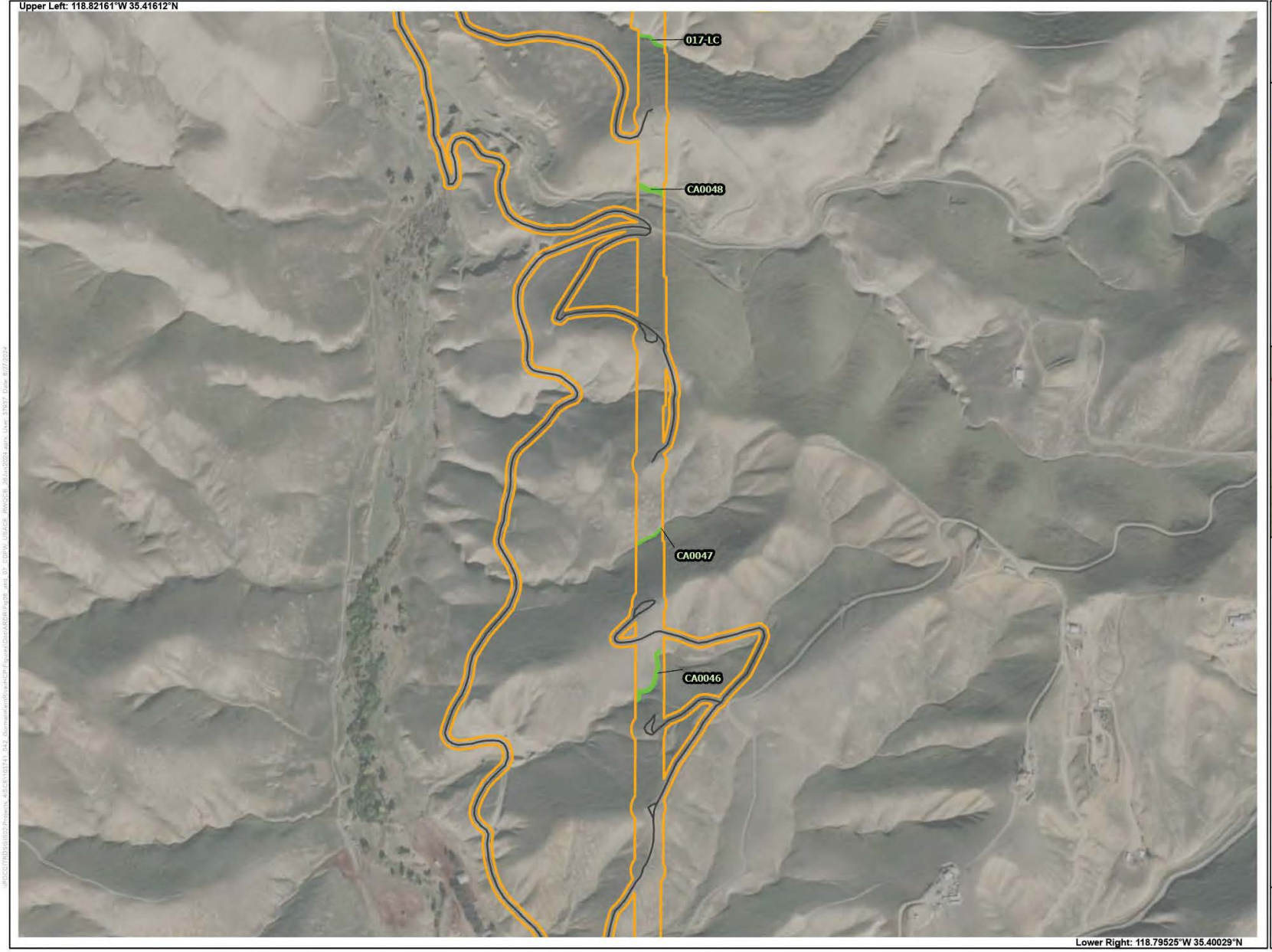
ICF

Figure 7, Sheet 3
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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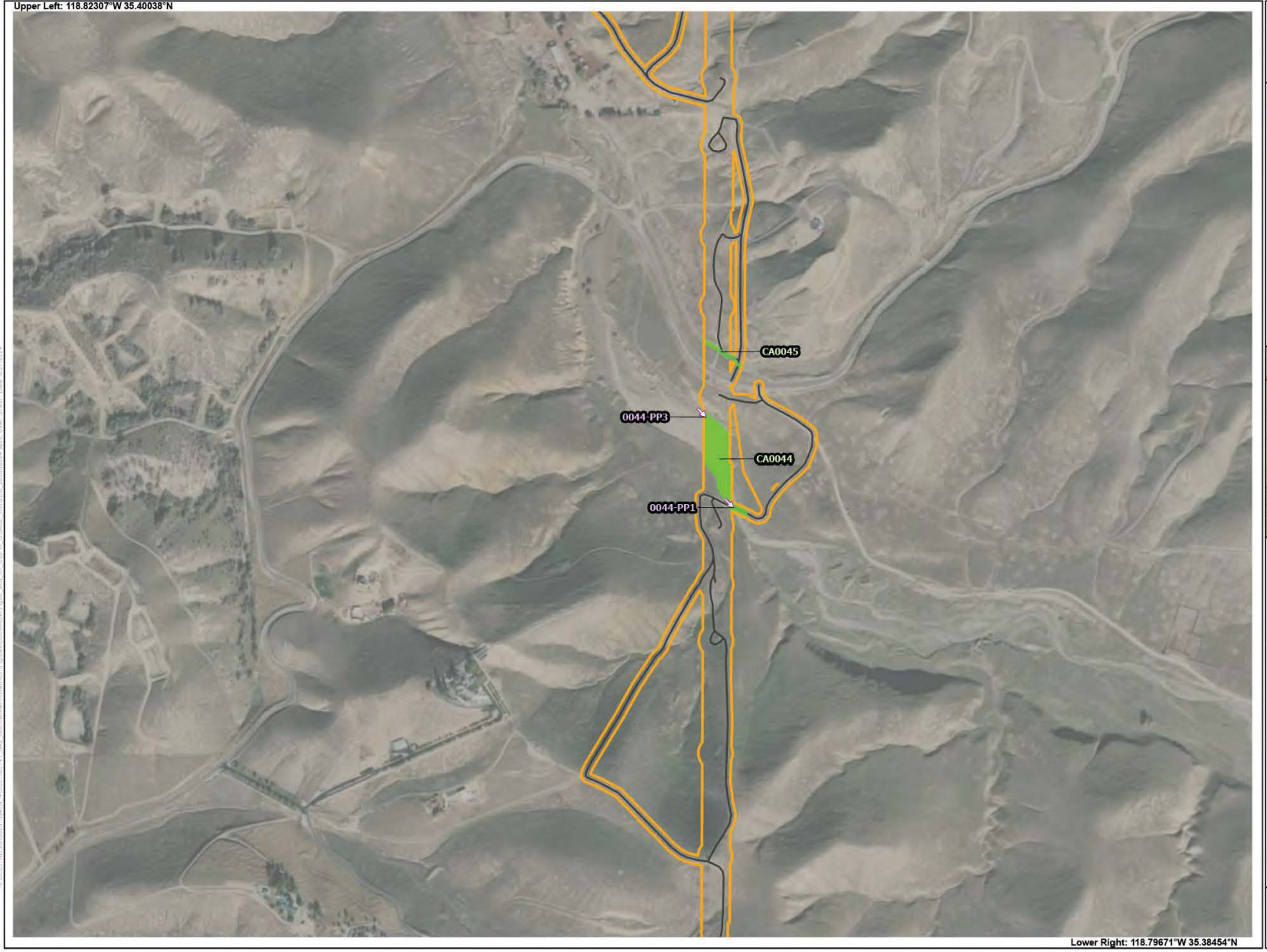
ICF

Figure 7, Sheet 4
Gorman-Kern River 66 kV Subtransmission Line Project

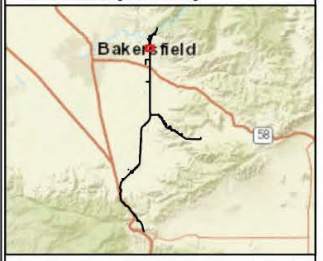


CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 5
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Revised On: 6/27/2024

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0 250 500 Feet

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ICF

Figure 7, Sheet 6
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Revised On: 6/27/2024

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0 250 500 Feet

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ICF

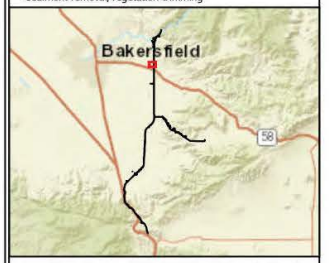
Figure 7, Sheet 7
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming



Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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Revised On: 6/27/2024

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N

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ICF

Figure 7, Sheet 8
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 9
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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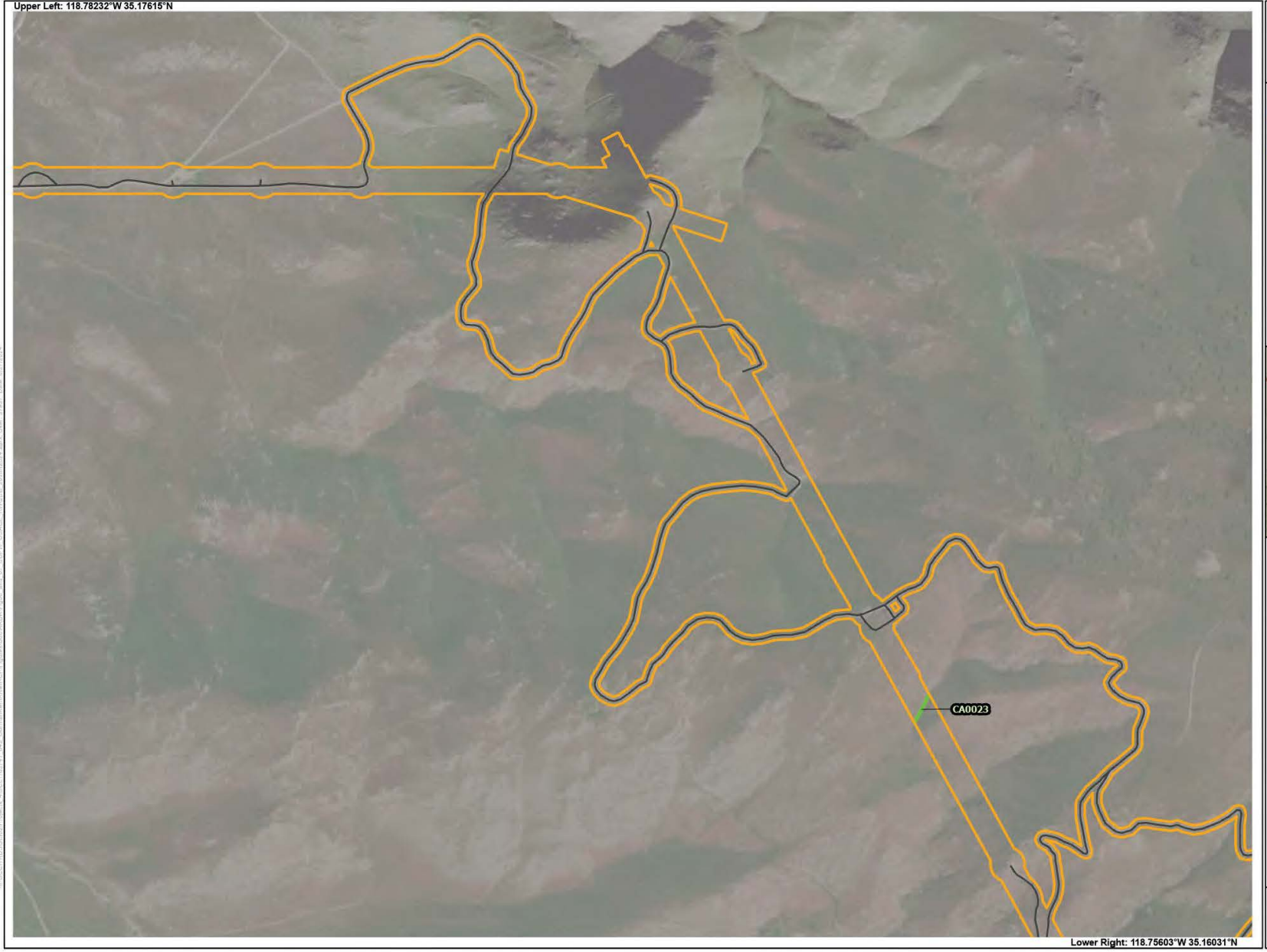
ICF

Figure 7, Sheet 10
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 11
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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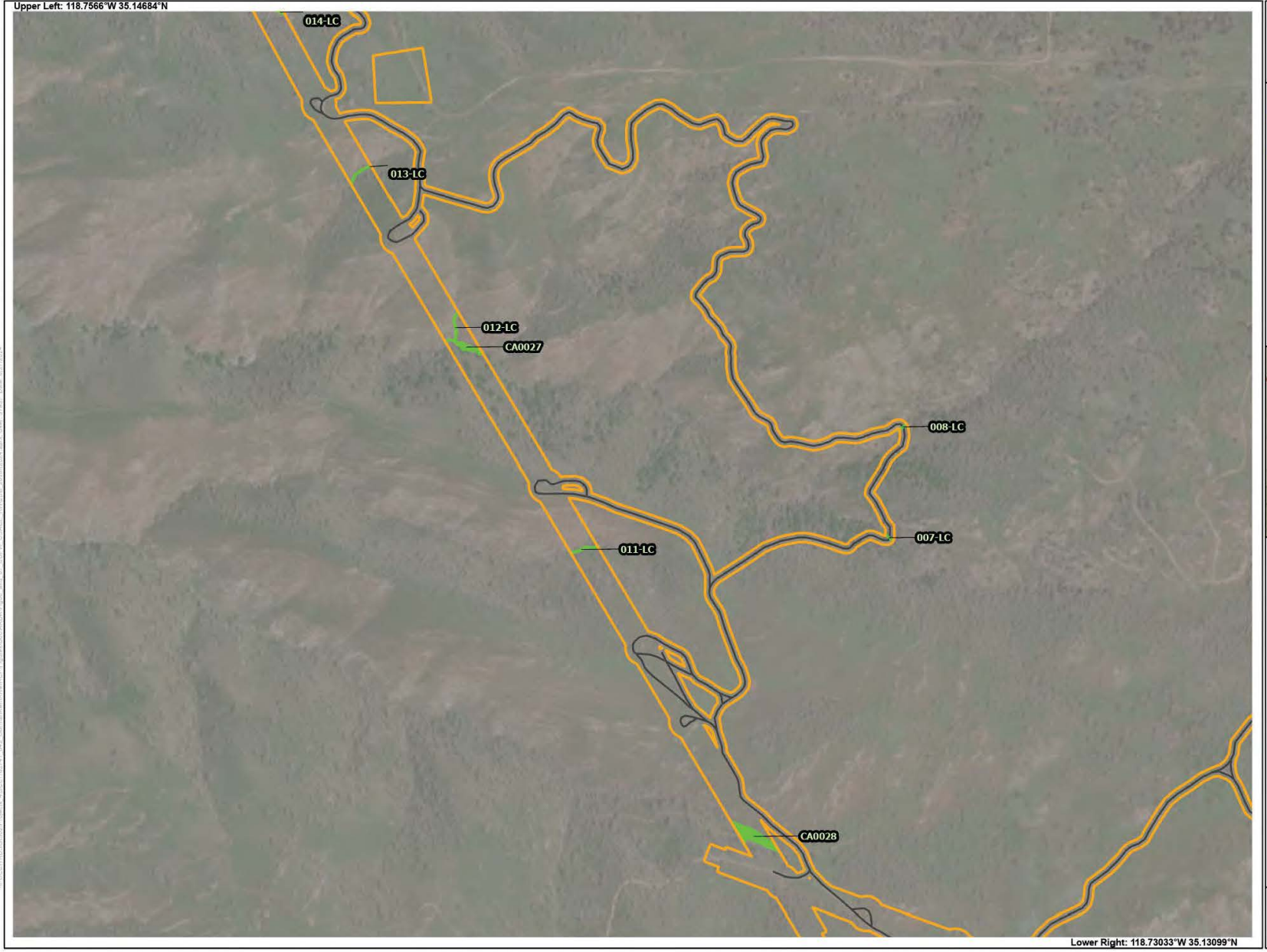
ICF

Figure 7, Sheet 12
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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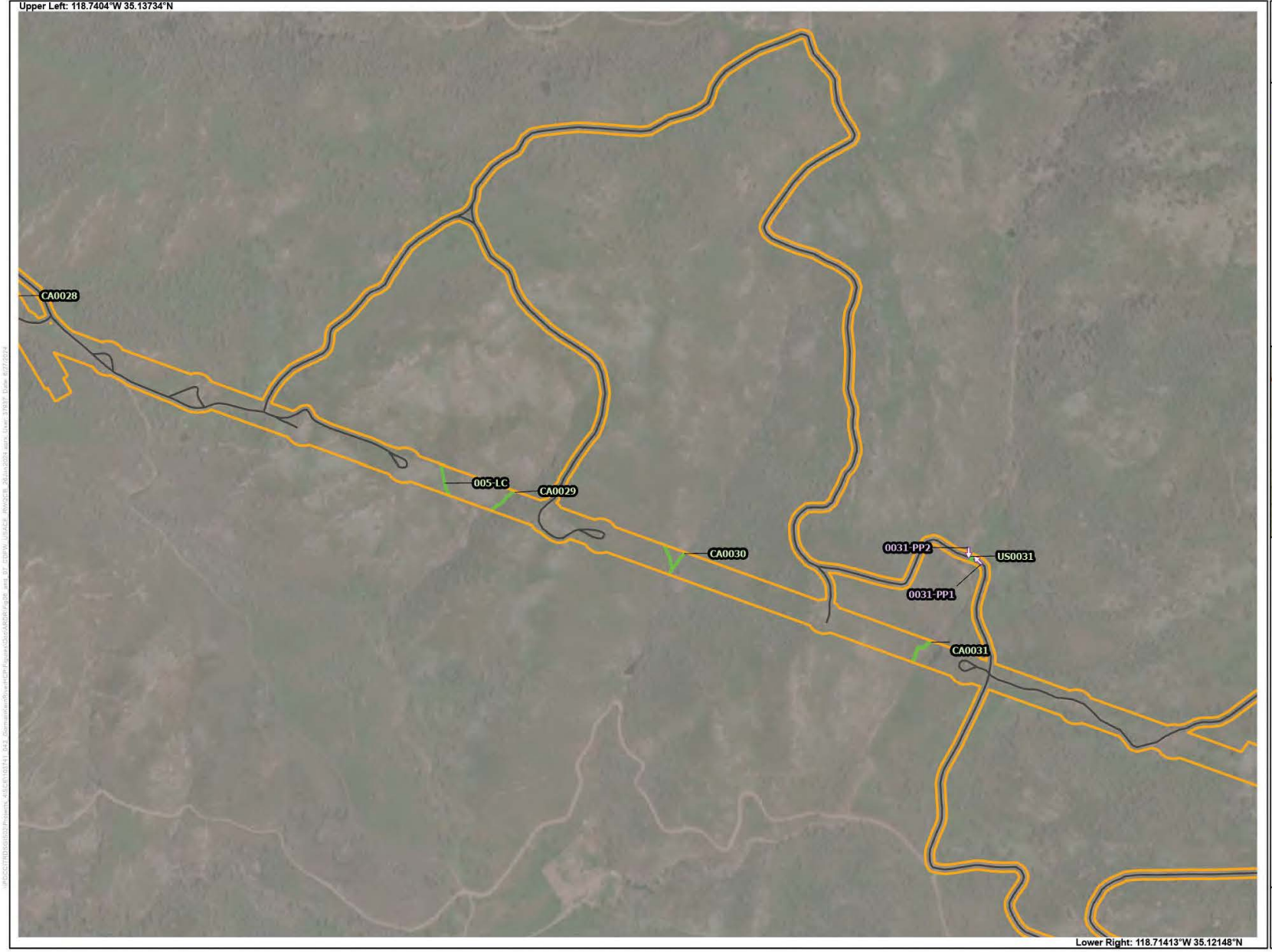
ICF

Figure 7, Sheet 13
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 14
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 15
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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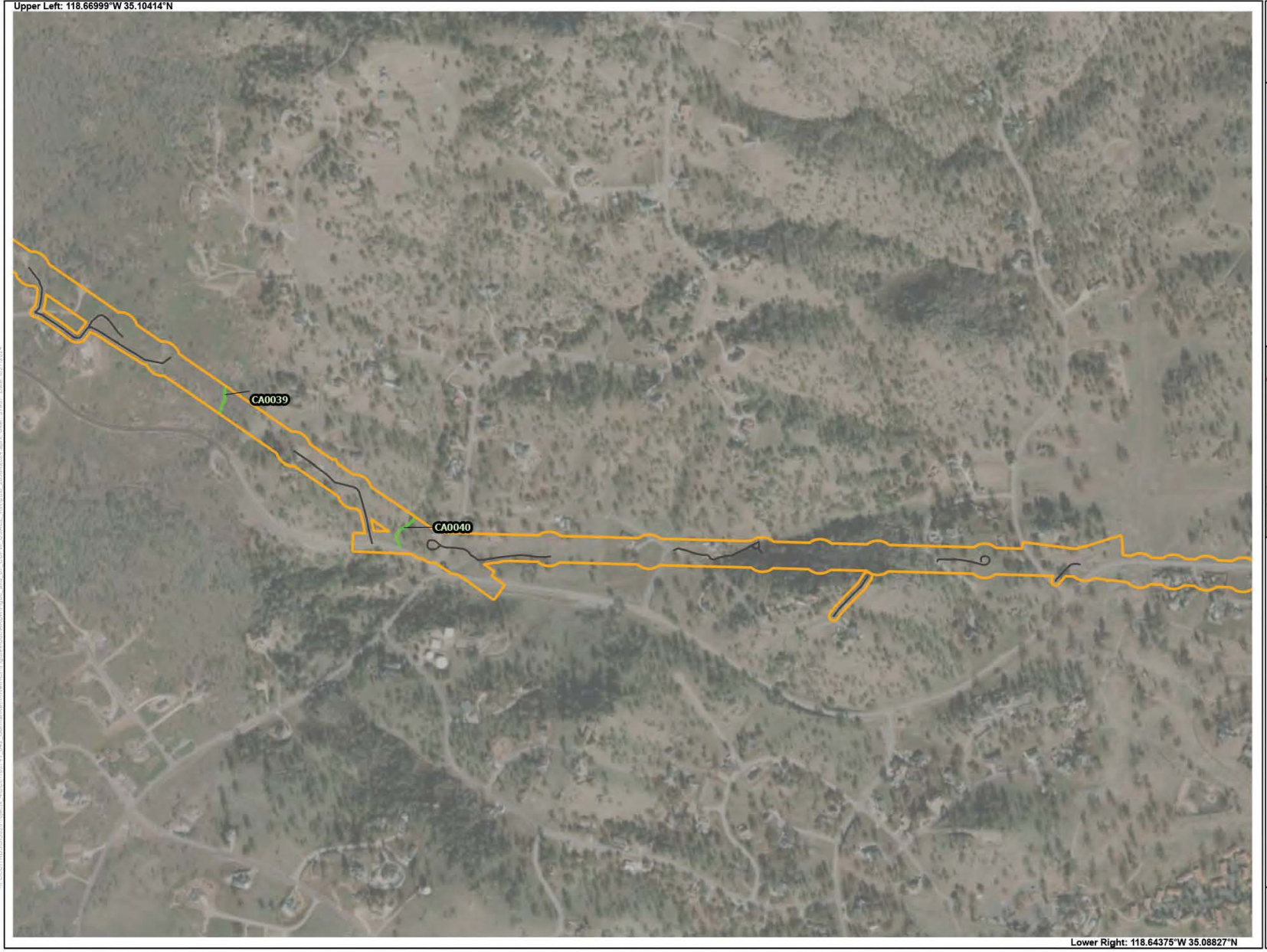
ICF

Figure 7, Sheet 16
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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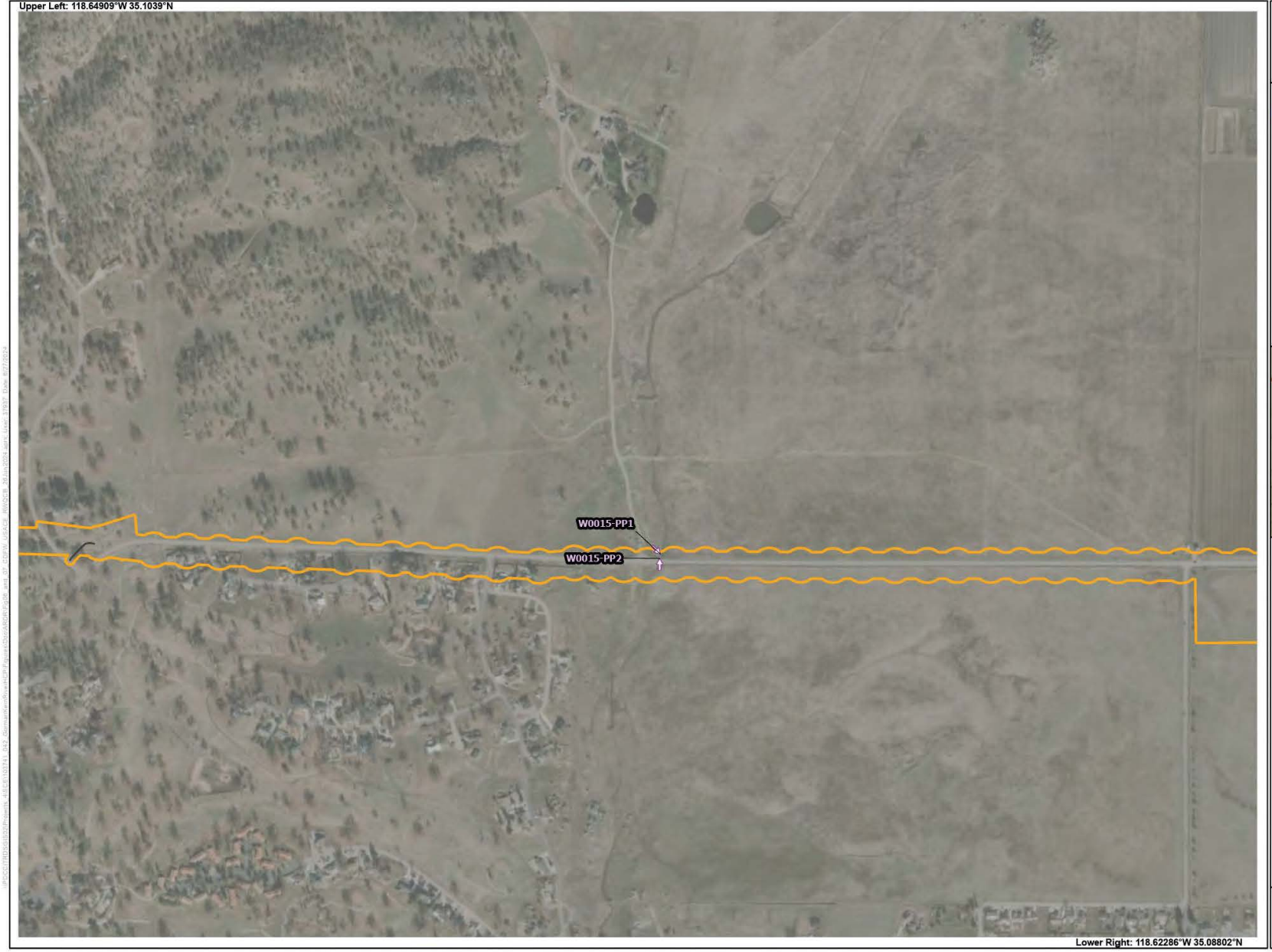
ICF

Figure 7, Sheet 17
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 18
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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0 250 500 Feet

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ICF

Figure 7, Sheet 19
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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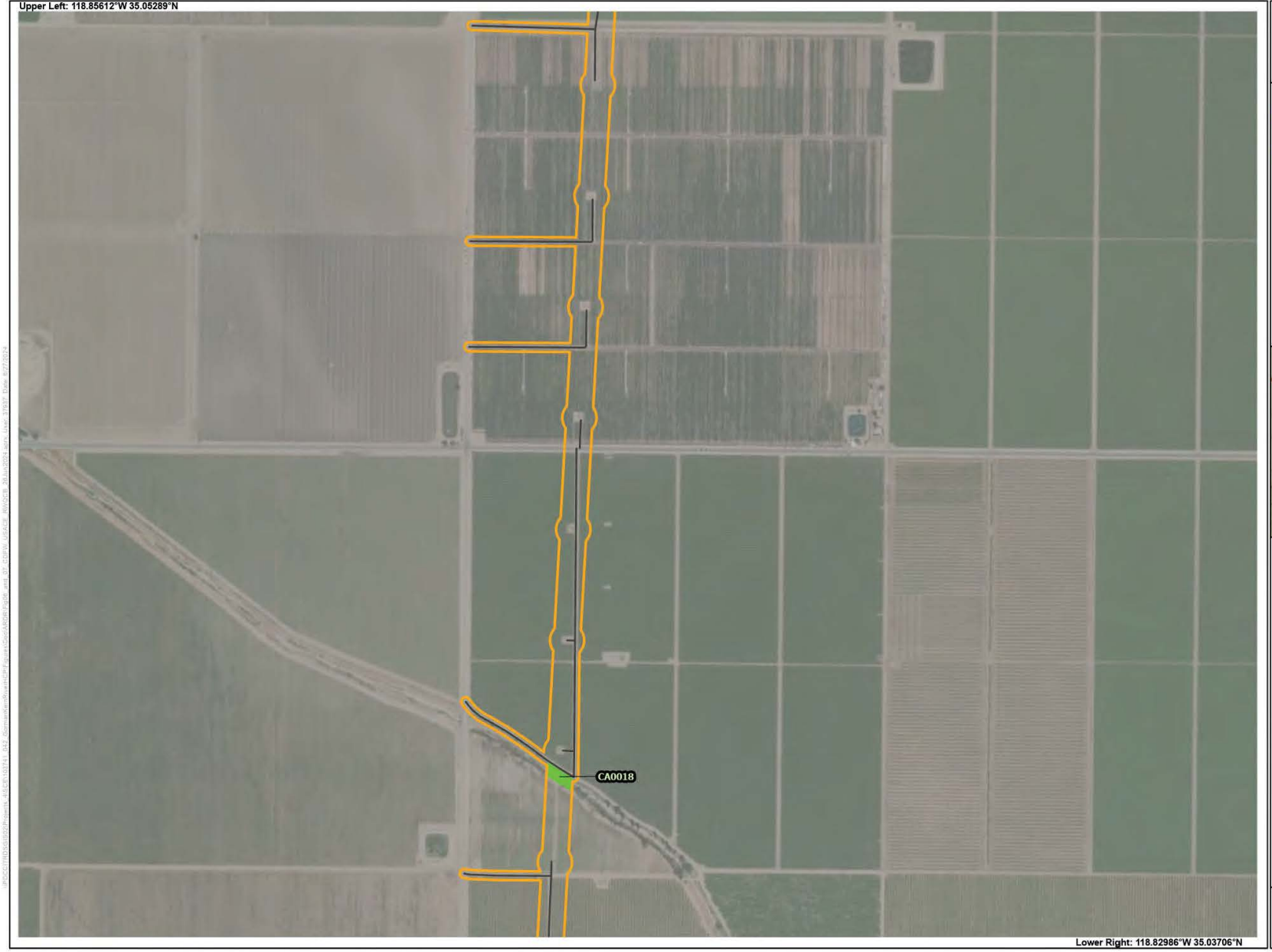
ICF

Figure 7, Sheet 20
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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0 250 500 Feet

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ICF

Figure 7, Sheet 21
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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N

0 250 500 Feet

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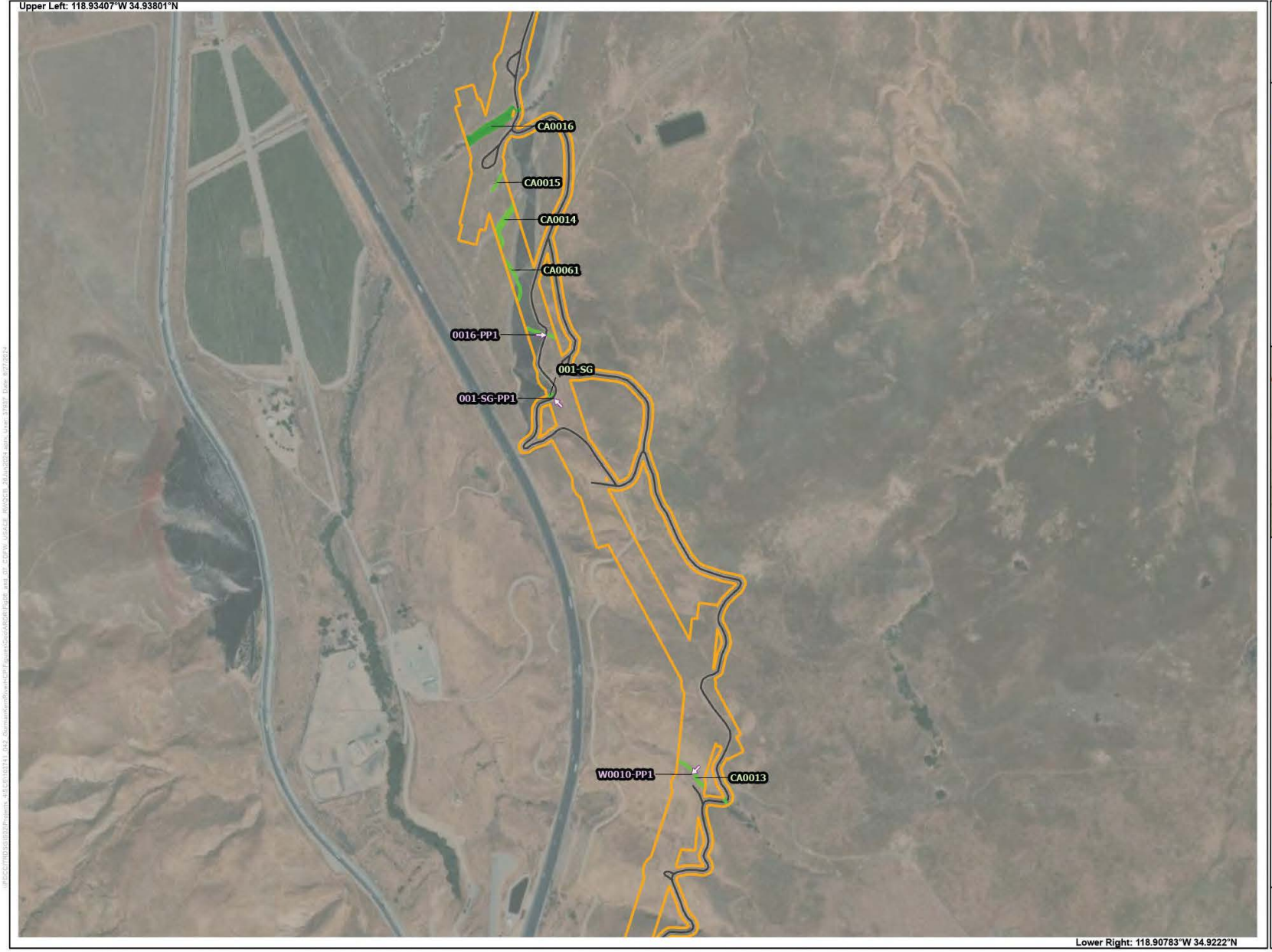
ICF

Figure 7, Sheet 22
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- CDFW Associated Riparian Vegetation
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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0 250 500 Feet

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ICF

Figure 7, Sheet 23
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- CDFW Associated Riparian Vegetation

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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N

0 250 500 Feet

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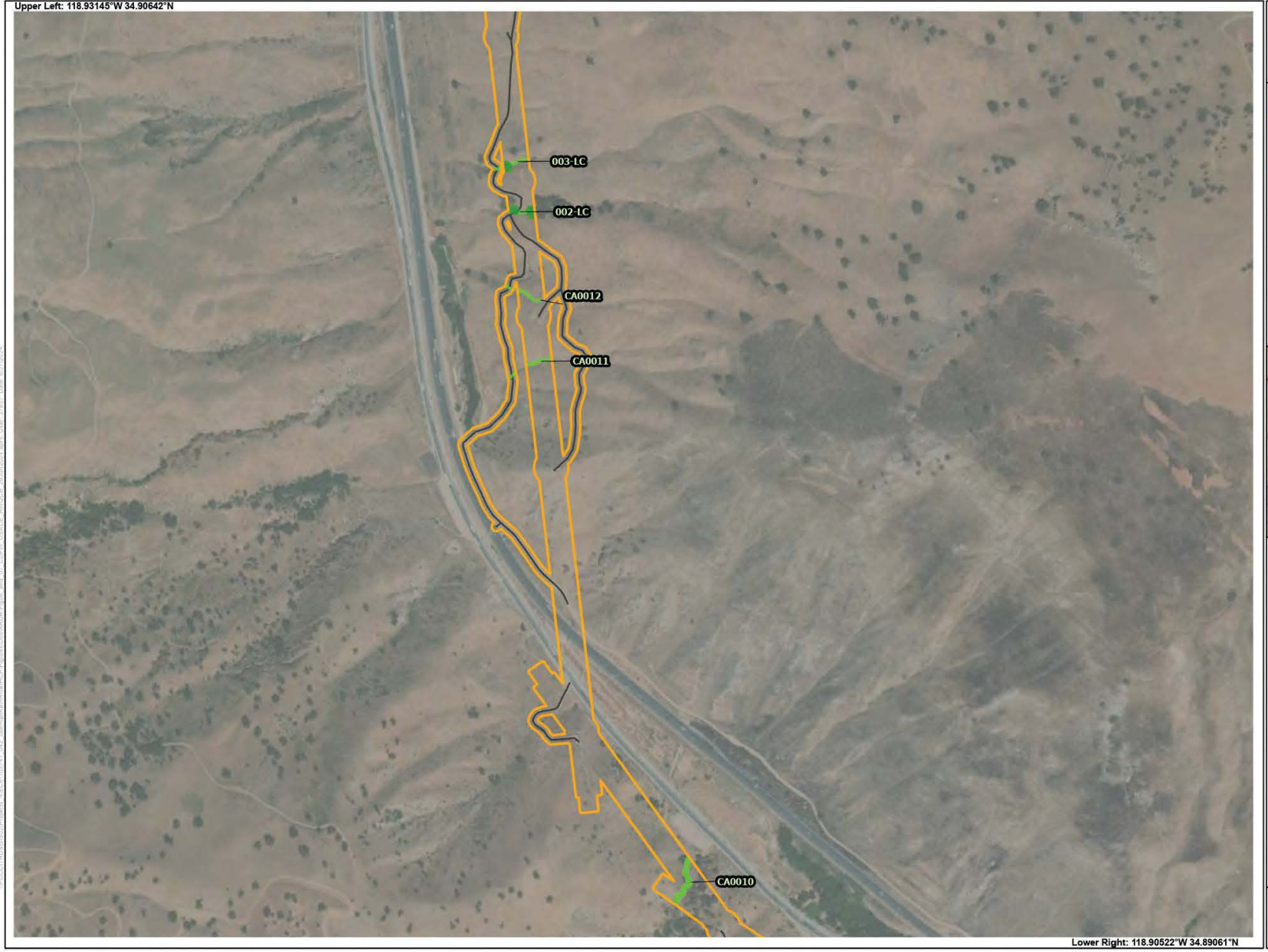
ICF

Figure 7, Sheet 24
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- CDFW Associated Riparian Vegetation

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

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ICF

Figure 7, Sheet 25
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on February 10, 2016, by:
Jason Deters, Project Manager
Enforcement and Special Projects Unit
U.S. Army Corps of Engineers
South Pacific Division
Sacramento District, Regulatory Division
1325 J Street, Room 1350
Sacramento, California 95814-2922

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community
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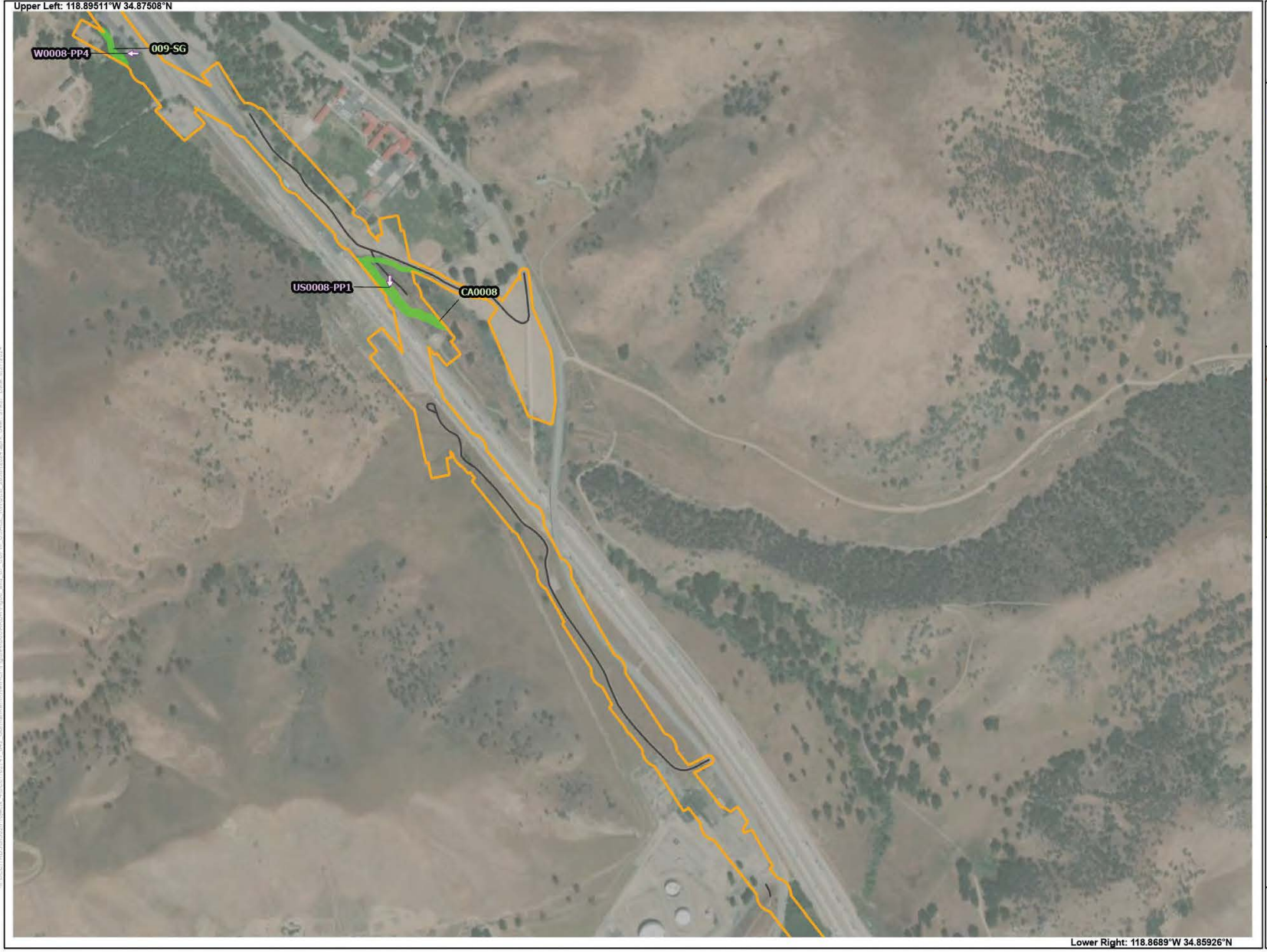
Figure 7, Sheet 26
Gorman-Kern River 66 kV Subtransmission Line Project



CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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ICF

Figure 7, Sheet 27
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- CDFW Associated Riparian Vegetation
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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ICF

Figure 7, Sheet 28
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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ICF

Figure 7, Sheet 29
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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ICF

Figure 7, Sheet 30
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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N

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ICF

Figure 7, Sheet 31
Gorman-Kern River 66 kV Subtransmission Line Project

CDFW Results Map

Legend

- Survey Area
- Access Road
- CDFW Streambed
- Waters Photo Points

*sediment removal/vegetation trimming

Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983
Map Units: Foot US

Created On: 3/15/2024
Revised On: 6/27/2024

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Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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ICF

Figure 7, Sheet 32
Gorman-Kern River 66 kV Subtransmission Line Project

Appendix B
Site Photographs

	**Photograph**: 001-KK-PP1 **Photo Date**: 12/8/2023 **Location**: Feature 001-KK **Direction**: West **Comment**: Looking downstream from where 001-KK crosses the access road. Where SDAM form 001-KK-SDAM1 was conducted to determine the feature is ephemeral. Where OHWM sample point 001-KK-OHWM1 was conducted.
	**Photograph**: 001-SG-PP1 **Photo Date**: 12/6/2023 **Location**: Feature 001-SG **Direction**: Northwest **Comment**: Looking downstream at ephemeral hillside drainage 001-SG.

	**Photograph**: 002-KK-PP8 **Photo Date**: 12/6/2023 **Location**: Feature 002-KK **Direction**: North **Comment**: Looking downstream at intermittent stream 002-KK. The feature exhibited a predominantly unvegetated channel bed with *Conium maculatum* (FACW), *Lepidium latifolium* (FAC), and *Populus fremontii* (FACW) dominating the banks.
	**Photograph**: 0004-PP4 **Photo Date**: 12/6/2023 **Location**: Feature 0004 **Direction**: North **Comment**: Looking downstream where ephemeral drainage 0004 flows parallel to the access road.

	**Photograph**: 0005-PP1 **Photo Date**: 12/6/2023 **Location**: Feature 0005 **Direction**: Northeast **Comment**: Looking downstream at ephemeral drainage 0005.
	**Photograph**: 0006-PP2 **Photo Date**: 12/8/2023 **Location**: Feature 006 **Direction**: East **Comment**: Looking upstream at ephemeral drainage 0006 from the downstream end where the feature flows under I-5 via a box culvert.

	**Photograph**: 0006-PP3 **Photo Date**: 12/8/2023 **Location**: Feature 006 **Direction**: North **Comment**: Looking across ephemeral drainage 0006 from the downstream end where the feature flows under I-5 via a box culvert.
	**Photograph**: 0007-PP3 **Photo Date**: 12/6/2023 **Location**: Feature 0007 **Direction**: Northeast **Comment**: Looking at wetland sample point 0007-SP1 within intermittent drainage 0007. Channel bed was dominated by *Schoenoplectus americanus* (OBL).

	**Photograph**: 0008-PP1 **Photo Date**: 12/8/2023 **Location**: Feature 0008 **Direction**: South **Comment**: Looking downstream at ephemeral drainage 0008 where it flows along I-5.
	**Photograph**: 0016-PP1 **Photo Date**: 12/6/2023 **Location**: Feature 0061 **Direction**: East **Comment**: Looking upstream at water flowing in intermittent drainage 0061 from where the feature crosses the access road.

	**Photograph**: 0019-PP1 **Photo Date**: 12/7/2023 **Location**: Feature 0019 **Direction**: North **Comment**: Looking across ephemeral wash 0019 where the feature crosses the access road.
	**Photograph**: 0019-PP2 **Photo Date**: 12/7/2023 **Location**: Feature 0019 **Direction**: West **Comment**: Looking downstream at ephemeral wash 0019 from the top of bank. Where SDAM form 0019-SDAM was conducted to determine the feature is ephemeral.

	**Photograph**: 0031-PP1 **Photo Date**: 12/7/2023 **Location**: Feature 0031 **Direction**: Northwest **Comment**: Looking downstream from where ephemeral drainage 0031 crosses the access road. Where SDAM form 0031-SDAM1 was conducted to determine the feature is ephemeral. Where OHWM sample point 0031-OHWM1 was conducted.
	**Photograph**: 0031-PP2 **Photo Date**: 12/7/2023 **Location**: Feature 0031 **Direction**: South **Comment**: Looking upstream from where ephemeral drainage 0031 crosses the access road. Where SDAM form 0031-SDAM1 was conducted to determine the feature is ephemeral. Where OHWM sample point 0031-OHWM1 was conducted.

	**Photograph**: 0042-PP1 **Photo Date**: 12/7/2023 **Location**: Feature 0042 **Direction**: South **Comment**: Looking downstream at ephemeral feature 0042. Where OHWM sample point 0042-OHWM1 was conducted.
	**Photograph**: 0042-PP4 **Photo Date**: 12/7/2023 **Location**: Feature 0042 **Direction**: North **Comment**: Looking upstream at ephemeral feature 0042. Where OHWM sample point 0042-OHWM1 was conducted.

	**Photograph**: 0043-PP1 **Photo Date**: 12/7/2023 **Location**: Non-JD Ditch **Direction**: North **Comment**: Looking upstream from culvert under access road at a non-jurisdictional constructed ditch. This feature appears to be regularly maintained and receives flows from the surrounding agriculture fields.
	**Photograph**: 0044-PP1 **Photo Date**: 12/7/2023 **Location**: Feature 0044 **Direction**: Southeast **Comment**: Looking upstream from where 0044 crosses the access road. Where SDAM form 0044-SDAM1 was conducted to determine the feature is intermittent. Where OHWM sample point 0044-OHWM1 was conducted.

	**Photograph**: 0044-PP3 **Photo Date**: 12/7/2023 **Location**: Feature 0044 **Direction**: Southeast **Comment**: Looking upstream from the channel bed of 0044. Where SDAM form 0044-SDAM1 was conducted to determine the feature is intermittent. Where OHWM sample point 0044-OHWM1 was conducted.
	**Photograph**: 0059-PP5 **Photo Date**: 12/5/2023 **Location**: Feature 0059 **Direction**: Northwest **Comment**: Looking upstream at perennial river 0059 (Kern River) from the top of bank. Where OHWM sample point 0059-OHWM1 was conducted.

	**Photograph**: 0059-PP7 **Photo Date**: 12/5/2023 **Location**: Feature 0059 **Direction**: North **Comment**: Looking upstream at perennial river 0059 (Kern River) from the top of bank. Where OHWM sample point 0059-OHWM1 was conducted.
	**Photograph**: 0068-PP2 **Photo Date**: 12/5/2023 **Location**: Feature 0068 **Direction**: Southwest **Comment**: Looking downstream at ephemeral drainage 0068 where a property fence line and access road crosses the feature.

	**Photograph**: KS7-10-PP1 **Photo Date**: 12/6/2023 **Location**: Wetland Sample Point KS7-10-SP1 **Direction**: Northwest **Comment**: Looking at wetland sample point KS7-10-SP1. The area was determined to not contain wetlands and is not associated with a feature.
	**Photograph**: NJD003-KK-PP1 **Photo Date**: 12/7/2023 **Location**: Non-jurisdictional agriculture ditch **Direction**: South **Comment**: Non-jurisdictional ditch associated with surrounding agriculture. The ditch is vegetated with no signs of flow.

	**Photograph**: NJD012-KK-PP3 **Photo Date**: 12/7/2023 **Location**: Access road **Direction**: North **Comment**: Access road through area that appeared to have signs of flow on aerial signature, but was confirmed to be completely in uplands with no signs of flow in the field.
	**Photograph**: NJD020-KK-PP2 **Photo Date**: 12/7/2023 **Location**: Non-jurisdictional basin **Direction**: Northwest **Comment**: Non-jurisdictional human-made basin associated with surrounding agriculture. Upland vegetation growing in the basin banks and in the bed.

	**Photograph**: NJD0034-PP2 **Photo Date**: 12/7/2023 **Location**: Non-jurisdictional erosional feature **Direction**: Northwest **Comment**: Non-jurisdictional erosional feature along hillside. Created from upland flows off access road.
	**Photograph**: NJDKS7-12-PP1 **Photo Date**: 12/6/2023 **Location**: Non-jurisdictional concrete ditch **Direction**: Southeast **Comment**: Non-jurisdictional concrete V-ditch along roadside.

	**Photograph**: W0001-PP1 **Photo Date**: 12/6/2023 **Location**: Wetland sample point W0001-SP1.1 **Direction**: North **Comment**: Looking at wetland sample point W0001-SP1.1. The area was determined to not contain wetlands and is not associated with a feature.
	**Photograph**: W0001-PP2 **Photo Date**: 12/6/2023 **Location**: Wetland sample point W0001-SP1.2 **Direction**: Southwest **Comment**: Looking area representative of wetland sample point W0001-SP1.2. The area was determined to not contain wetlands and is not associated with a feature.

	**Photograph**: W0001-PP4 **Photo Date**: 12/6/2023 **Location**: Feature 0001 **Direction**: Southeast **Comment**: Looking at wetland sample point W0001-SP2 taken within the upper banks of feature 0001 (Castaic Lake). The feature was determined to not contain wetlands.
	**Photograph**: W0002-PP2 **Photo Date**: 1/16/2024 **Location**: Wetland sample point W0002-SP1 **Direction**: Northeast **Comment**: Looking at wetland sample point W0002-SP1. The area was determined to not contain wetlands and is not associated with a feature.

	**Photograph**: W0002-PP5 **Photo Date**: 1/16/2024 **Location**: Wetland sample point W0002-SP2 **Direction**: South **Comment**: Looking at wetland sample point W0002-SP2. The area was determined to not contain wetlands and is not associated with a feature.
	**Photograph**: W0005-PP4 **Photo Date**: 1/16/2024 **Location**: Feature W0005 **Direction**: North **Comment**: Looking at wetland sample point W0005-SP1. The area was determined to be a wetland. Drainage patterns and wetland vegetation are visible in the photo.

	**Photograph**: W0005-PP10 **Photo Date**: 1/16/2024 **Location**: Feature W0005 **Direction**: South **Comment**: Looking across wetland feature W0005 from upland area outside the wetland boundary.
	**Photograph**: W0008-PP2 **Photo Date**: 12/7/2023 **Location**: Feature 0009 **Direction**: Southwest **Comment**: Looking at wetland sample point W0008-SP1 within feature 0009. The area was determined to not contain wetlands.

	**Photograph**: W0008-PP3 **Photo Date**: 12/7/2023 **Location**: Wetland sample point W0008-SP2 **Direction**: South **Comment**: Looking at wetland sample point W0008-SP2 associated with feature 0009. The area was determined to not contain wetlands.
	**Photograph**: W0008-PP4 **Photo Date**: 12/7/2023 **Location**: Feature 0009-SG **Direction**: Southwest **Comment**: Looking at wetland sample point W0008-SP3 associated with feature 0009-SG. The area was determined to not contain wetlands.

	**Photograph**: W0010-PP1 **Photo Date**: 12/6/2023 **Location**: Wetland sample point W0010-SP1 **Direction**: Southwest **Comment**: Looking at wetland sample point W0010-SP1. The area was determined to not contain wetlands and is not associated with a feature.
	**Photograph**: W0015-PP1 **Photo Date**: 12/7/2023 **Location**: Wetland sample point W0015-SP1 **Direction**: Southeast **Comment**: Looking at wetland sample point W0015-SP1. The area was determined to not contain wetlands and is not associated with a feature.

	**Photograph**: W0015-PP2 **Photo Date**: 12/7/2023 **Location**: Non-jurisdictional swale **Direction**: North **Comment**: Looking at non-jurisdictional swale across a field from the access road. The swale was vegetated and did not contain signs of flow.
	**Photograph**: W0017-PP1 **Photo Date**: 1/16/2024 **Location**: Wetland sample point W0017-SP1 **Direction**: Northeast **Comment**: Looking at wetland sample point W0017-SP1. The area was determined to not contain wetlands and is not associated with a feature.

	**Photograph**: W0018-PP2 **Photo Date**: 12/6/2023 **Location**: Wetland sample point W0018-SP1 **Direction**: North **Comment**: Looking area representative of wetland sample point W0017-SP1 associated with feature 0007. The area was determined to not contain wetlands.
	**Photograph**: W0022-PP1 **Photo Date**: 1/16/2024 **Location**: Wetland sample point W0022-SP2 **Direction**: Northeast **Comment**: Looking at wetland sample point W0022-SP2. The area was determined to not contain wetlands and is not associated with a feature.

Photograph: W0022-PP2

Photo Date: 12/6/2024

Location: Wetland sample point W0022-SP1

Direction: Northwest

Comment: Looking at area representative of wetland sample point W0022-SP2 associated with feature 0005. The area was determined to not contain wetlands and is not associated with a feature.

Appendix C

Ordinary High Water Mark Data Sheets

Arid West Ephemeral and Intermittent Streams OHWM Datasheet 001-KK-OHWM1

Project: SCE Gorman Kern
Project Number: 103741.0.046.01
Stream: 001-KK
Investigator(s): K. Klinefelter, A Fowler

Date: 12/8/23 **Time:** 1305
Town: Lebec **State:** CA
Photo begin file#: 001-KK-PP1 **Photo end file#:** 001-KK-PP1

Y ☑ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☑ Is the site significantly disturbed?

Location Details: Road crossing along Crane Canyon Rd

Projection: Lat / Long **Datum:** WGS-84
Coordinates: 34.828902, -118.856792

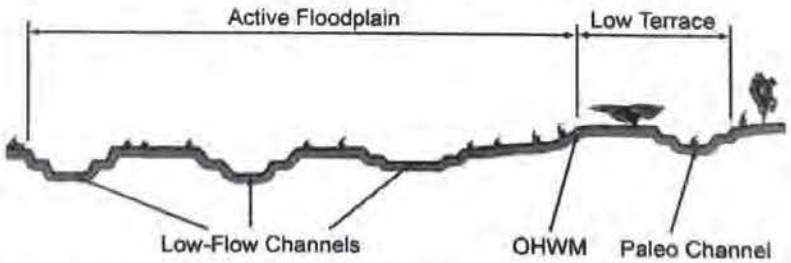
Potential anthropogenic influences on the channel system:
A dirt road crosses through the feature within the survey area and the OHWM and ToB is not defined in that area

Brief site description:
Alluvial wash surrounded by Rubber Rabbitbush scrub flowing from SW to NE and appears to connect with feature 0005 downstream.

Checklist of resources (if available):

- ☑ Aerial photography
  Dates: 2023
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☐ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☑ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
  - ☐ History of recent effective discharges
  - ☐ Results of flood frequency analysis
  - ☐ Most recent shift-adjusted rating
  - ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units

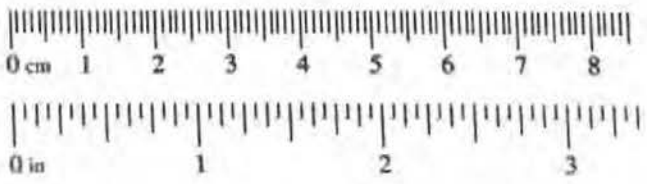


Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☑ GPS using Trimble
   - ☐ Digitized on computer
   - ☐ Other:

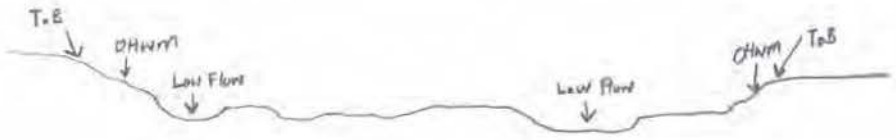
Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	Gravel
0.157	4	Pebble	Gravel
		Granule	Gravel
0.079	2.00		
0.039	1.00	Very coarse sand	Sand
0.020	0.50	Coarse sand	Sand
1/2 0.0098	0.25	Medium sand	Sand
1/4 0.005	0.125	Fine sand	Sand
1/8 0.0025	0.0625	Very fine sand	Sand
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	Silt
1/64 0.00031	0.0078	Fine silt	Silt
1/128 0.00015	0.0039	Very fine silt	Silt
		Clay	Mud



Project ID: SCE EKR **Cross section ID:** 001-KK-OHWM1 **Date:** 12/8/2023 **Time:** 1305

Cross section drawing:



OHWM

GPS point: 34.828902, -118.856792

Indicators:

- [x] Change in average sediment texture
- [ ] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [x] Other: sediment deposition
- [ ] Other: _____

Comments:

- Larger cobbles settled out around OHWM and Larger rocks above around ToB
- Established Rubber Rabbitbush scrub surrounding feature above ToB

Floodplain unit: [x] Low-Flow Channel [ ] Active Floodplain [ ] Low Terrace

GPS point: 34.828902, -118.856792

Characteristics of the floodplain unit:

Average sediment texture: Medium

Total veg cover: 0 % Tree: ____ % Shrub: ____ % Herb: ____ %

Community successional stage:

- [x] NA
- [ ] Early (herbaceous & seedlings)
- [ ] Mid (herbaceous, shrubs, saplings)
- [ ] Late (herbaceous, shrubs, mature trees)

Indicators:

- [ ] Mudcracks
- [ ] Ripples
- [ ] Drift and/or debris
- [x] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [x] Other: change in average sediment size
- [ ] Other: _____
- [ ] Other: _____

Comments:

- Uniformly medium sand sized granules settled within low flow

Project ID: SCE GKE **Cross section ID:** 001-KK-channel **Date:** 12/8/2023 **Time:** 12:

Floodplain unit: ☐ Low-Flow Channel ☑ Active Floodplain ☐ Low Terrace

GPS point: 34.828902, -118.856792

Characteristics of the floodplain unit:

Average sediment texture: Granule

Total veg cover: 8 % Tree: 0 % Shrub: 5 % Herb: 3 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☑ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☑ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☑ Other: Sediment sorting
- ☑ Other: Change in veg cover
- ☐ Other:

Comments:

- Mix of medium sand and cobble that has settled on top
- Scattered Lepidiospartum squamatum, Artemesia dracunculus, and Ericameria nauseosa (Rubber Rabbitbush)

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: NA

Characteristics of the floodplain unit:

Average sediment texture:

Total veg cover: % Tree: % Shrub: % Herb: %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other:
- ☐ Other:
- ☐ Other:

Comments:

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: GKR
Project Number:
Stream: 0031π OHWM1
Investigator(s): S. Galindo, S. Gulyas

Date: 12/7/23 **Time:** 1 pm
Town: Stallion Springs **State:** CA
Photo begin file#: pp1 **Photo end file#:** pp3

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details: Valley in agricultural area with cattle.

Projection: 35,127939, **Datum:** NAD 83
Coordinates: -118.720242

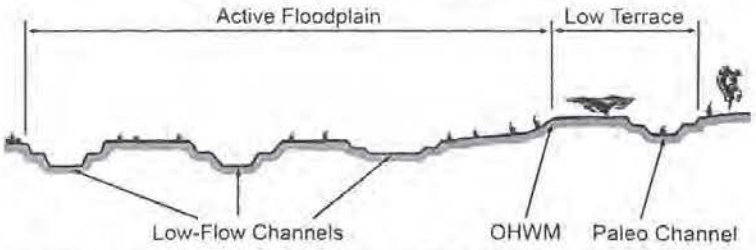
Potential anthropogenic influences on the channel system:
Road crossing, agricultural field.

Brief site description:
Ag land with road crossing drainage.

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☒ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☐ Soils maps
- ☐ Rainfall/precipitation maps
- ☒ Existing delineation(s) for site
- ☐ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units

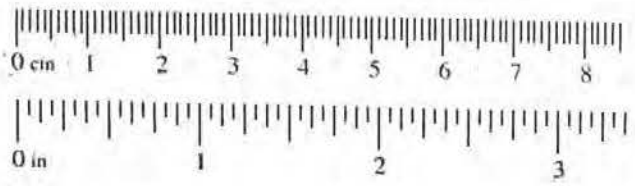


Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☒ GPS
   - ☐ Digitized on computer
   - ☐ Other:

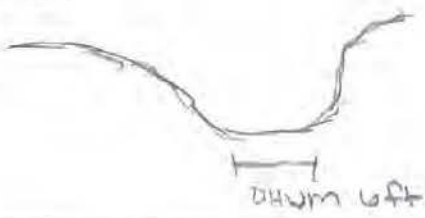
Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	
2.58	64	Cobble	Gravel
0.157	4	Pebble	
0.079	2.00	Granule	
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	Sand
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	Silt
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud



Project ID: **Cross section ID:** **Date:** **Time:**

Cross section drawing:



OHWM

GPS point: _____

Indicators:

- ☐ Change in average sediment texture
- ☒ Change in vegetation species
- ☒ Change in vegetation cover
- ☒ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:

Slight change in veg.

Floodplain unit: ☒ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: _____ % Tree: _____ % Shrub: _____ % Herb: _____ %

Community successional stage:

- ☐ NA
- ☒ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☒ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Steep bank downstream of road crossing.

Project ID: **Cross section ID:** **Date:** **Time:**

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: _____ % Tree: _____ % Shrub: _____ % Herb: _____ %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: _____ % Tree: _____ % Shrub: _____ % Herb: _____ %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: GKR
Project Number:
Stream: 0042-OHWM1
Investigator(s): S. Gellindo, S. Gulyas

Date: 12/7/23 **Time:** 3:15 pm
Town: **State:** CA
Photo begin file#: 991 **Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details:
Agricultural valley

Projection: 35,282593, **Datum:** NAD 83
Coordinates: -118,807293

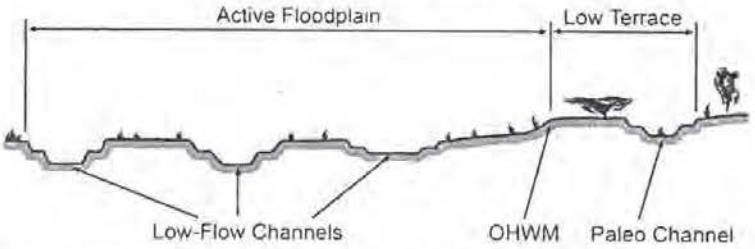
Potential anthropogenic influences on the channel system:
Berms, agricultural.

Brief site description:
Desert wash lies adjacent to agricultural field separated by berms.

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☒ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☐ Soils maps
- ☐ Rainfall/precipitation maps
- ☒ Existing delineation(s) for site
- ☐ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

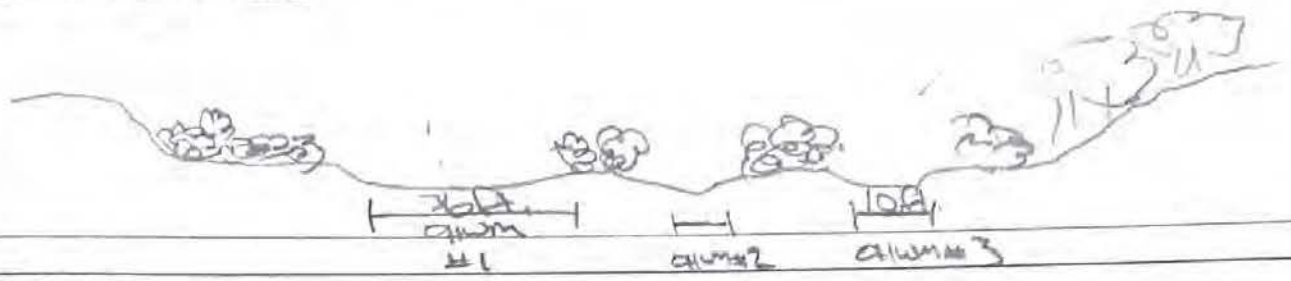
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☒ GPS
   - ☐ Digitized on computer
   - ☐ Other:

Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	
2.58	64	Cobble	Gravel
0.157	4	Pebble	
		Granule	
0.079	2.00		
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	Sand
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	Silt
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud

Project ID: **Cross section ID:** **Date:** **Time:**

Cross section drawing:



OHWM

GPS point: _____

Indicators:

- ☐ Change in average sediment texture
- ☐ Change in vegetation species
- ☒ Change in vegetation cover
- ☒ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:
No veg. in OHWM. Desert scrub outside OHWM and in floodplain. Orighal OHWM 36 ft. Two new OHWM within floodplain.

Floodplain unit: ☒ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: Sand.

Total veg cover: _____% Tree: _____% Shrub: _____% Herb: _____%

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☒ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☒ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☒ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Project ID: **Cross section ID:** **Date:** **Time:**

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: ____% Tree: ____% Shrub: ____% Herb: ____%

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: ____% Tree: ____% Shrub: ____% Herb: ____%

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Arid West Ephemeral and Intermittent Streams OHWM Datasheet 0044-OHWM1

Project: Gorman-Kern River 66 kV	**Date:** 12/7/23	**Time:** 13:30
Project Number: 103741.0.046.01	**Town:** Tarina	**State:** CA
Stream: 0044	**Photo begin file#:** 0044-PP1	**Photo end file#:** 0044-PP6
Investigator(s): AF, KK		

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details: large dry wash on cattle farm

Projection: Lat/Long **Datum:** WGS-84

Coordinates: 35.392820, -118.807944

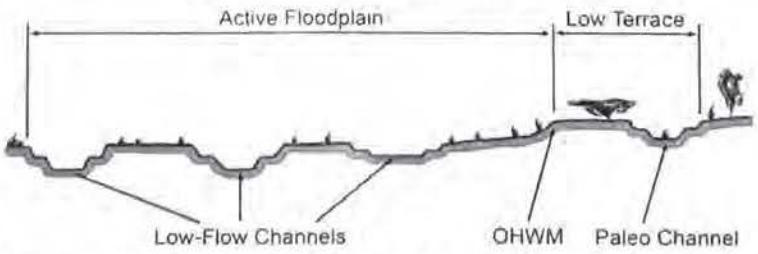
Potential anthropogenic influences on the channel system:
impoundments for cattle; old dirt road (also proposed access road for project) crossing through upstream end.

Brief site description:
large incised wash with a sandy low-flow, bordered by gravel/cobble, with one bench

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☒ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☒ Soils maps
- ☐ Rainfall/precipitation maps
- ☒ Existing delineation(s) for site
- ☒ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units

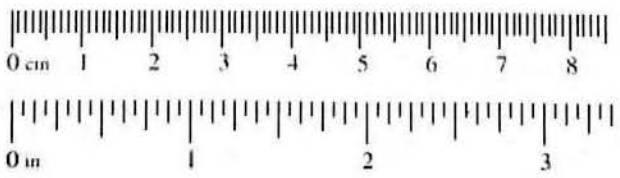


Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☑ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☑ GPS
   - ☐ Other:

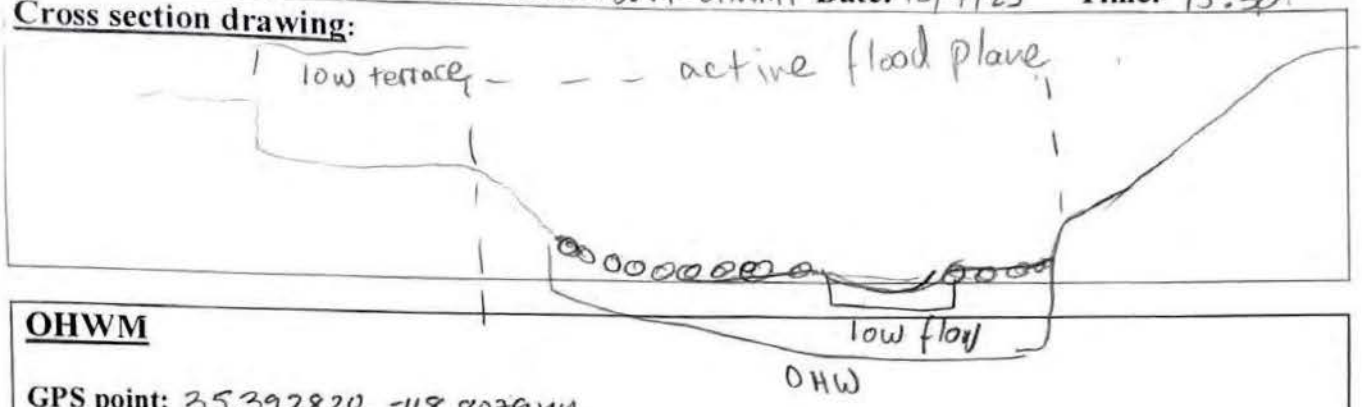
Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	Gravel
2.56	64	Cobble	
0.157	4	Pebble	
		Granule	
0.079	2.00		
0.039	1.00	Very coarse sand	Sand
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	Silt
1/32 0.00061	0.0156	Medium silt	
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud



Project ID: SCE GKR **Cross section ID:** 0044-OHWM1 **Date:** 12/7/23 **Time:** 15:30

Cross section drawing:



OHWM

GPS point: 35.392820, -118.807944

Indicators:

- [x] Change in average sediment texture
- [ ] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [ ] Other: _____
- [ ] Other: _____

Comments:
bottom of channel is comprised of an unvegetated low flow channel which is bordered by a cobble/gravelly bed. Sparsely vegetated with some mulefat & scale-broom. at the OHWM the texture is sand & loam and the angle rises to form a bench moderately vegetated w scale broom & annuals

Floodplain unit:

- [x] Low-Flow Channel
- [ ] Active Floodplain
- [ ] Low Terrace

GPS point: 35.392820, -118.807944

Characteristics of the floodplain unit:

Average sediment texture: Coarse sand

Total veg cover: 1 % Tree: 0 % Shrub: <1 % Herb: <1 %

Community successional stage:

- [ ] NA
- [x] Early (herbaceous & seedlings) ← woody species <2ft high
- [ ] Mid (herbaceous, shrubs, saplings)
- [ ] Late (herbaceous, shrubs, mature trees)

Indicators:

- [x] Mudcracks
- [x] Ripples
- [ ] Drift and/or debris
- [x] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [x] Other: algal mats
- [ ] Other: _____
- [ ] Other: _____

Comments:

Project ID: SCE GKR **Cross section ID:** DOMH-OHWM1 **Date:** 12/7/23 **Time:** 15:30

Floodplain unit: ☐ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: 35.392820, -118.807944

Characteristics of the floodplain unit:

Average sediment texture: Pebble

Total veg cover: 5 % Tree: 1 % Shrub: 4 % Herb: <1 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☒ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☒ Benches
- ☐ Soil development
- ☒ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

larger shrubs, tamarisk, black willow, cocklebur and brit, Populus scalebroo + some heliotrop c

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

GPS point: 35.392820, -118.807944

Characteristics of the floodplain unit:

Average sediment texture: medium sand

Total veg cover: 20 % Tree: – % Shrub: 15 % Herb: 5 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☒ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☒ Benches
- ☒ Soil development
- ☒ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

flat sandy bench w another terrace above, many scalebroom shrubs + annual ambrosia

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: GKR
Project Number:
Stream: 0059-OHWM1
Investigator(s): S. Galindo, S. Gutyas

Date: 12/5/23 **Time:** 1 PM
Town: Bakersfield **State:** CA
Photo begin file#: PM **Photo end file#:**

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details: Kern River

Projection: 35.459986, **Datum:** NAD 83
Coordinates: -118.780248

Potential anthropogenic influences on the channel system:
Hydroelectric dam feature, SCE Kern #1.

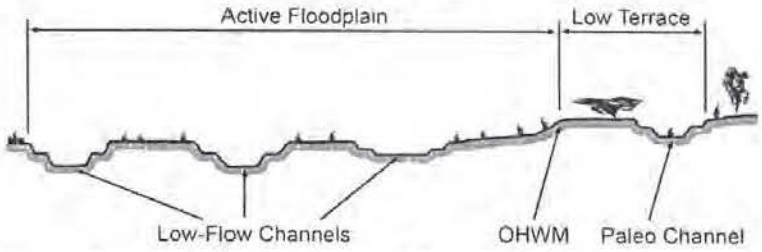
Brief site description:
East side of Kern River OHWM, Flowing perennial river. Dam feature present upstream of OHWM.

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☒ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☐ Soils maps
- ☐ Rainfall/precipitation maps
- ☒ Existing delineation(s) for site
- ☐ Global positioning system (GPS)
- ☐ Other studies

- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
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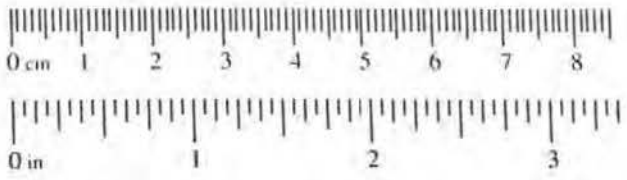
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☒ GPS
   - ☐ Digitized on computer
   - ☐ Other:

Wentworth Size Classes

Inches (in)	Millimeters (mm)	Wentworth size class	
10.08	256	Boulder	
2.56	64	Cobble	Gravel
0.157	4	Pebble	
0.079	2.00	Granule	
0.039	1.00	Very coarse sand	
0.020	0.50	Coarse sand	
1/2 0.0098	0.25	Medium sand	Sand
1/4 0.005	0.125	Fine sand	
1/8 0.0025	0.0625	Very fine sand	
1/16 0.0012	0.031	Coarse silt	
1/32 0.00061	0.0156	Medium silt	Silt
1/64 0.00031	0.0078	Fine silt	
1/128 0.00015	0.0039	Very fine silt	
		Clay	Mud



Project ID: Cross section ID: Date: Time:

Cross section drawing:

OHWM

GPS point: _____

Indicators:

- [x] Change in average sediment texture
- [x] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [x] Other: Water stained boulders
- [ ] Other: _____

Comments:
Cobble to boulders. OHWM wider than originally mapped. Extended to previous CDFW line. Rock stains from flowing water present.

Floodplain unit:

- [x] Low-Flow Channel
- [x] Active Floodplain
- [ ] Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: Boulders

Total veg cover: _____ % Tree: _____ % Shrub: _____ % Herb: _____ %

Community successional stage:

- [ ] NA
- [ ] Early (herbaceous & seedlings)
- [ ] Mid (herbaceous, shrubs, saplings)
- [x] Late (herbaceous, shrubs, mature trees)

Indicators:

- [ ] Mudcracks
- [x] Ripples
- [x] Drift and/or debris
- [x] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

Comments:

Project ID: **Cross section ID:** **Date:** **Time:**

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: _____% Tree: _____% Shrub: _____% Herb: _____%

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: _____

Characteristics of the floodplain unit:

Average sediment texture: _____

Total veg cover: _____% Tree: _____% Shrub: _____% Herb: _____%

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Appendix D
Wetland Determination Forms

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 66-kV City/County: Lebec / Kern County Sampling Date: 12/6/23

Applicant/Owner: SCE State: CA Sampling Point: 007-SP1

Investigator(s): K. Klinefelter, A. Fowler Section, Township, Range: Castac Land Grants, Civil Colonies

Landform (hillslope, terrace, etc.): channel bed Local relief (concave, convex, none): concave Slope (%): _____

Subregion (LRR): C - Med Lat: 34.854165 Long: -118.874312 Datum: WGS-84

Soil Map Unit Name: Area not surveyed, access denied to SMU NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

Sample point taken within channel bed where wetland vegetation is growing. SP is representative of 002-kk as it is connected downstream and has similar vegetation and hydrology.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1. NA			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. Rumex crispus	1	N	FAC
2. Artemisia dracunculus	1	N	FACU
3. Scirpus americanus	90	Y	OBL
4. Asclepias fascicularis	1	N	FAC
5. Hirschfeldia incana	1	N	NI
6. Conium maculatum	5	N	
7.			
8.			
	98 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species _____	x 1 =	_____
FACW species _____	x 2 =	_____
FAC species _____	x 3 =	_____
FACU species _____	x 4 =	_____
UPL species _____	x 5 =	_____
Column Totals: _____ (A)		_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

Meets for Dominance Test.

SOIL

Sampling Point: 0007-SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	10YR 2/2	100					Clay	
1-6	10YR 3/2	100					Loamy Sand	
6-17	10YR 3/2	100					Loamy Sand	soils appear lighter when dry

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No ✓

Remarks:

No redox, does not meet for any hydric soil indicators

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ✓ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ✓ Depth (inches): _____

Water Table Present? Yes ____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Lebec/Kern Sampling Date: 12/6/23
Applicant/Owner: SCE State: CA Sampling Point: KS7-10 SP1
Investigator(s): S. Galindo, S. Gutyas Section, Township, Range: S7, T8N, R18W
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None Slope (%): 2
Subregion (LRR): C Lat: 34.790107 Long: -118.827068 Datum: NAD83
Soil Map Unit Name: **ObC - Oak Glen sandy loam, 2 to 9 percent slopes** NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes X No ____
Hydric Soil Present? Yes ____ No X
Wetland Hydrology Present? Yes X No ____
Is the Sampled Area within a Wetland? Yes ____ No X

Remarks:
In a roadside ditch feature. Adjacent to road and SCE activities.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 10 ft.)			
1. Baccharis salicifolia	5	Y	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		
Herb Stratum (Plot size: 10 ft.)			
1. Epilobium ciliatum	10	N	FACW
2. Juncus mexicanus	50	Y	FACW
3. Distichlis spicata	10	N	FAC
4. Bromus rubens	5	N	FACU
5. Stachys ajugoides	10	N	OBL
6. Polypogon monspeliensis	5	N	FACW
7.			
8.			
	90 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	65	x 2 =	130
FAC species	15	x 3 =	45
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	90 (A)		205 (B)

Prevalence Index = B/A = 2.27

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:
meets dominance test and prevalence index for veg.

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	2.5Y 3/2	100					S	
4-9	5Y 2.5/1	100					S	
9-10	10YR 3/2	100					S	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (I 18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

No hydric soils/redox present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Mark. (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No ____ Depth (inches): 0 in.

Water Table Present? Yes X No ____ Depth (inches): 3 in.

Saturation Present? (includes capillary fringe) Yes X No ____ Depth (inches): 0 in.

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Some saturation and nearby surface water present.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Lebec / Kern Sampling Date: 12-6-2023
Applicant/Owner: SCE State: CA Sampling Point: KS7-12 SP1
Investigator(s): SGalindo SGulyas Section, Township, Range: S7, T8N, R18W
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 15
Subregion (LRR): C Lat: 34.790091 Long: -118.827029 Datum: NAD83
Soil Map Unit Name: ObC - Oak Glen sandy loam, 2 to 9 percent slopes NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No ____	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks: KS7-12 SP taken on hillslope adjacent to concrete ditch feature.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 10' X 10')			
1. Juncus mexicanus	10	N	FACW
2. Eriophyllum californicum	45	Y	OBL
3. Lepidium latifolia	20	Y	FAC
4. Distichlis spicata	15	N	FAC
5.			
6.			
7.			
8.			
	90/45 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 45	x 1 = 45
FACW species 10	x 2 = 20
FAC species 35	x 3 = 105
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: 90 (A)	170 (B)

Prevalence Index = B/A = 1.89

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: Vegetation passes dominance test and prevalence index.

SOIL

Sampling Point: KS7-12 SP1.1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
10	7.5YR 2.5/2	100					S	Sandy

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

No hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): _____

Water Table Present? Yes ____ No ____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches): _____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrologic indicators. In dry location adjacent to road/ditch feature.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 66kV City/County: Kern County Sampling Date: 12/6/2023

Applicant/Owner: SCE State: CA Sampling Point: WDOD1-SP1

Investigator(s): K. Klinefelter, A. Fowler Section, Township, Range: S 36 Lebec, San Bernardino, T9N, R19W

Landform (hillslope, terrace, etc.): Valley bottom Local relief (concave, convex, none): Concave Slope (%): 2

Subregion (LRR): C-Med Lat: 34.825005 Long: -118.842628 Datum: WGS-84

Soil Map Unit Name: Stever sandy loam, 5 to 9 percent slopes NWI classification: Freshwater Emergent Wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓ No ____	Is the Sampled Area within a Wetland? Yes ____ No ✓
Hydric Soil Present?	Yes ____ No ✓	
Wetland Hydrology Present?	Yes ✓ No ____	

Remarks: area a Broad vegetated flat, no evidence of flow. Located within an area of slightly lower elevation within the floodplain of a dry lakebed.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix laevigata	30	Y	FACW
2.			
3.			
4.			
	30 = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1. Baccharis salicifolia	25%	Y	FAC
2.			
3.			
4.			
5.			
	25 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Urtica dioica	15	Y	FAC
2. Lepidium latifolium	50	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	65 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum 30 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 30	x 2 = 60
FAC species 75	x 3 = 225
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals: 105 (A)	285 (B)

Prevalence Index = B/A = 2.7

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

✓ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:

SOIL

Sampling Point

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2	10YR 3/2	100	—	—	—	—	Loam	V. loose + crumbly
2-7	10YR 3/2	99	7.5YR 4/6	1%	C	M	Sandy loam	
7-11	10YR 3/2	96	7.5 4/6	4%	C	M	Loam	more compact

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Hard pan

Depth (inches): 10 in

Hydric Soil Present? Yes ___ No ✓

Remarks:

does not meet for F6 because not enough Redox in upper layers. Layer of hard, dense soils at 10" that could not be dug past.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ✓ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- J FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): ___

Wetland Hydrology Present? Yes ✓ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

- Area gets wet but not seem to have flow
- Meets for FAC-Neutral test.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern 66 kV City/County: Kern County Sampling Date: 12/6/23

Applicant/Owner: SCE State: CA Sampling Point: W0001-SP1-2

Investigator(s): A. Fowler, K. Klinefelter Section, Township, Range: S 31 Lebec, San Bernardino T4N, R19W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 5

Subregion (LRR): C-Med Lat: 34.824708 Long: -118.842314 Datum: WGS-84

Soil Map Unit Name: Steuber sandy loam, 5 to 9 percent slopes NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Sample point located outside of previously mapped wetlands (W0001), upslope where upland vegetation is growing.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix laevigata	2	N	FACW
2. Quercus lobata	15	Y	FAC
3.			
4.			
	17	= Total Cover	
Sapling/Shrub Stratum (Plot size: 10 ft)			
1. Ericameria nauseosa	15	Y	NI
2.			
3.			
4.			
5.			
	15	= Total Cover	
Herb Stratum (Plot size: 5 ft)			
1. Juncus sp.	15	N	FAC
2. Bromus tectorum	35	Y	UPL
3. Urtica dioica	5	N	FAC
4. Marrubium sp.	4	N	FACU
5.			
6.			
7.			
8.			
	55	= Total Cover	
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
		= Total Cover	

% Bare Ground in Herb Stratum 45 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species —	x 1 = —
FACW species 2	x 2 = 4
FAC species 20	x 3 = 60
FACU species 15	x 4 = 60
UPL species 35	x 5 = 175
Column Totals: 72 (A)	299 (B)

Prevalence Index = B/A = 4.15

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Does not meet Dominance Test or Prevalence Index

SOIL

Sampling Point: W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2	10 YR 3/2	100					Sandy loam	100% w/ leaf litter
2-10	10 YR 3/2	100					Loam	denser

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

Does not meet for hydric soils - no redox or any other hydric soil indicators.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No √ Depth (inches): _____

Water Table Present? Yes ____ No √ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No √ Depth (inches): _____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Surrounding area does not exhibit wetland hydrology.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: German-Kern River 66 kV City/County: Kern County Sampling Date: 12/6/2023
Applicant/Owner: SCE State: CA Sampling Point: W0001-SP2
Investigator(s): K. Klinefelter, A. Fowler Section, Township, Range: Castaic Land Grants, Civil Colonies
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 17
Subregion (LRR): C-med Lat: 34.828757 Long: -118.848019 Datum: WGS-84
Soil Map Unit Name: Area not Surveyed for Soil Map Unit NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No ____	Is the Sampled Area within a Wetland? Yes ____ No ✓
Hydric Soil Present?	Yes ____	No ✓	
Wetland Hydrology Present?	Yes ✓	No ____	

Remarks:
Sample point taken within an area previously mapped as a wetland. Castaic Lake is located to the northeast.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix laevigata	25	✓	FACW
2.			
3.			
4.			
	25 = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1. Tamarisk sp	50	✓	FAC
2.			
3.			
4.			
5.			
	50 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lepidium latifolium	5	✓	FAC
2. Hirschfeldia incana	5	✓	NI
3.			
4.			
5.			
6.			
7.			
8.			
	10 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum 45 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 25	x 2 = 50
FAC species 55	x 3 = 115
FACU species 0	x 4 = 0
UPL species 5	x 5 = 25
Column Totals: 135 (A)	190 (B)

Prevalence Index = B/A = 1.4

Hydrophytic Vegetation Indicators:
✓ Dominance Test is >50%
✓ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:
Meets for both Dominance Test and Prevalence Index.

SOIL

Sampling Point

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 4/2		—	—	—	—	clay loam	hit hard layer at 8in fine roots throughout

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5) **(LRR C)**
- __ 1 cm Muck (A9) **(LRR D)**
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)
- __ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- __ 1 cm Muck (A9) **(LRR C)**
- __ 2 cm Muck (A10) **(LRR B)**
- __ Reduced Vertic (F18)
- __ Red Parent Material (TF2)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Hard pan / dense soils

Depth (inches): 8in

Hydric Soil Present? Yes ____ No ✓

Remarks:

Hit hard, dense layer unable to dig past. Does not meet for hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1) **(Nonriverine)**
- __ Sediment Deposits (B2) **(Nonriverine)**
- __ Drift Deposits (B3) **(Nonriverine)**
- __ Surface Soil Cracks (B6)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Water-Stained Leaves (B9)
- __ Salt Crust (B11)
- __ Biotic Crust (B12)
- __ Aquatic Invertebrates (B13)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres along Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- __ Water Marks (B1) **(Riverine)**
- __ Sediment Deposits (B2) **(Riverine)**
- __ Drift Deposits (B3) **(Riverine)**
- ✓ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Shallow Aquitard (D3)
- ✓ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ✓ Depth (inches): ____

Water Table Present? Yes ____ No ✓ Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No ✓ Depth (inches): ____

Wetland Hydrology Present? Yes ✓ No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Meets for hydrology based on evidence of drainage patterns within area and FAC-Neutral test.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: German-Kern River Lele kV City/County: Kern County Sampling Date: 1/16/24

Applicant/Owner: SCE State: CA Sampling Point: W0002-SP1

Investigator(s): K. Klinefelter, N. Argueta Section, Township, Range: Unsectioned portion of Lebec topo

Landform (hillslope, terrace, etc.): Flat plain Local relief (concave, convex, none): None Slope (%): 0/

Subregion (LRR): C-Med Lat: 34.834077745 Long: -118.8538571 Datum: WGS-84

Soil Map Unit Name: Area not surveyed - access denied NWI classification: Freshwater emergent wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Sample point is representative of area northwest of fenceline - can be seen on aerial imagery. This area appears to be grazed and is less vegetated on northwest side of fenceline.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1 NA			
2			
3			
4			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1 NA			
2			
3			
4			
5			
	____ = Total Cover		
Herb Stratum (Plot size: 5')			
1 Lepidium latifolium	15	Y	FAC
2 Erodium botrys	30	Y	FACU
3 Brassica nigra	10	N	FACU
4 Juncus mexicanus	20	Y	FACW
5			
6			
7			
8			
	75 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1			
2			
	____ = Total Cover		

% Bare Ground in Herb Stratum 20 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:
Meets for Dominance Test.

SOIL

Sampling Point: W0002-SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 4/2	100					clay loam	
9-12	10YR 3/2	100					loamy sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: large cobbles

Depth (inches): 12 inches

Hydric Soil Present? Yes ____ No X

Remarks: 0-9 inches soils are moist and compact
9-12 inches looser sandy soils somewhat moist
fine-medium sized roots through sample pit.
no redox within sample, does not meet for hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): ____

Water Table Present? Yes ____ No X Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
- soils are moist and damp but not saturated
- no drainage patterns, area is relatively the same elevation.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 16kV City/County: Kern County Sampling Date: 1/16/24

Applicant/Owner: SCE State: CA Sampling Point: W0002-SP2

Investigator(s): K. Klinefelter, N. Argueta Section, Township, Range: Unsectioned portion of Lebec topo

Landform (hillslope, terrace, etc.): flat plain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): C-med Lat: 34.83530408 Long: -118.8548558 Datum: WGS-84

Soil Map Unit Name: Area not surveyed - access denied NWI classification: <10Ft outside freshwater emergent wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No ✓	**Is the Sampled Area within a Wetland?** Yes ____ No ✓
Hydric Soil Present?	Yes ____	No ✓	
Wetland Hydrology Present?	Yes ____	No ✓	

Remarks:
Sample point is representative of large field/plain with consistent vegetion.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1. NA			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lepidium latifolium	20	Y	FAC
2.			
3. Centaurea solstitialis	5	N	UPL
4. Cynodon dactylon	45	Y	UPL
5.			
6.			
7.			
8.			
	70 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	20	x 3 =	60
FACU species	0	x 4 =	0
UPL species	50	x 5 =	250
Column Totals:	70 (A)		310 (B)

Prevalence Index = B/A = 4.4

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks:
Does not meet for Dominance Test or Prevalence Index.

SOIL

Sampling Point: W0012-SP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/2	100					loam	
8-10	10YR 3/2	100					sandy loam	
10-14	10YR 3/1	100					clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

0-8in, lots of roots, fine roots throughout layer, grass roots
8-10, sandier, looser soils
10-14, compact and finer soils
soils are damp/moist. No redox within samples does not meet for hydric soils

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Soils are damp/moist, but are not saturated
No distinct drainage patterns within the field.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 66kV City/County: Kern County Sampling Date: 1/16/24

Applicant/Owner: SCE State: CA Sampling Point: W0005-SP1

Investigator(s): K. Klinefelter, N. Argueta Section, Township, Range: Unsectioned portion of Lebec topo

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1/

Subregion (LRR): C-med Lat: 34.8531994 Long: -118.8725143 Datum: WGS-84

Soil Map Unit Name: Area not surveyed - access denied NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No ____	**Is the Sampled Area within a Wetland?** Yes ✓ No ____
Hydric Soil Present?	Yes ✓	No ____	
Wetland Hydrology Present?	Yes ✓	No ____	

Remarks:
Sample point taken in area of lower elevation between hillside and freeway. Area generally slopes NE to SW.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. Juncus mexicanus	10	N	FACW
2. Cirsium vulgare	2	N	UPL
3. Leymus triticoides	20	Y	FAC
4. Lipidium latifolium	35	Y	FAC
5. Cynodon dactylon	20	Y	UPL
6.			
7.			
8.			
	87 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	55	x 3 =	165
FACU species	0	x 4 =	0
UPL species	22	x 5 =	110
Column Totals:	87 (A)		295 (B)

Prevalence Index = B/A = 3.39

Hydrophytic Vegetation Indicators:

- ___ Dominance Test is >50%
- ___ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:
Meets for Dominance Test but not Prevalence Index. Mix of upland and wetland plants within general area.

SOIL

Sampling Point: WCXXS-SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2	100					Loam	See notes
8-11	10YR 4/2	90	7.5YR 4/6	10	C	M	Sand	See notes

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ✓ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: Dense soils

Depth (inches): 11

Hydric Soil Present? Yes ✓ No ___

Remarks:

- 0-8 in - damp soils, layer has roots throughout
- 8-11 in - sandier soils with redox. Difficult to dig sample any deeper than 11 in because soils too dense/compact.
- Soils are assumed to meet A11 indicator but could not dig deep enough to confirm.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ✓ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ✓ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): ___

Wetland Hydrology Present? Yes ✓ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

A vegetated swale runs through the area along the freeway. No wracking/debris. Soil is moist/damp but not saturated.

Small area of ponded water nearby at a culvert inlet and is associated with drainage patterns within the area.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Grapevine / Kern Sampling Date: 12/8/23
Applicant/Owner: SCE State: CA Sampling Point: WD008-SP1
Investigator(s): S. Galindo, S. Gutyas Section, Township, Range: SQ, T9N, R19W
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): C Lat: 34.875922 Long: -118.895672 Datum: NAD83
Soil Map Unit Name: Area not surveyed, access denied NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:
Sample point taken within drainage where hydrophytic vegetation is present.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1. NA			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5 ft.)			
1. Leymus triticoides	4	Y	FAC
2. Urtica dioica	2	N	FAC
3. Bromus diandrus	10	Y	UPL
4.			
5.			
6.			
7.			
8.			
	16 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species 6	x 3 =	18
FACU species	x 4 =	
UPL species 10	x 5 =	50
Column Totals: 16 (A)		68 (B)

Prevalence Index = B/A = 4.25

Hydrophytic Vegetation Indicators:
___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Does not meet for Dominance Test or Prevalence Index.

SOIL

Sampling Point: W0008-SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-14	7.5YR 3/2	100					S	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

No hydric soils. Pit dug in concaved area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): _____

Water Table Present? Yes ____ No ____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches): _____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrologic indicators

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Grapevine/Kern Sampling Date: 12/8/23
Applicant/Owner: SCE State: CA Sampling Point: W0008-SP2
Investigator(s): S. Galindo, S. Gulyas Section, Township, Range: 50, T9N, R19W
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None Slope (%): 0
Subregion (LRR): C Lat: 34.876150 Long: -118.896088 Datum: NAD83
Soil Map Unit Name: Area not surveyed, access denied NWI classification: PFOC
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:
Outside of drainage in floodplain to verify veg. and hydrology.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus lobata	10	Y	FACU
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 10ft)			
1. Toxicodendron diversilobum	20	Y	FACU
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5ft.)			
1. Leymus triticoides	82	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	82 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species 87	x 3 =	240
FACU species 30	x 4 =	120
UPL species	x 5 =	
Column Totals: 117 (A)		366 (B)

Prevalence Index = B/A = 3.26

Hydrophytic Vegetation Indicators:
__ Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Does not meet for Dominance Test or Prevalence Index.

SOIL

Sampling Point: W0008-SP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

No pH, soils assumed not present.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrologic indicators assumed present in floodplain.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Grapevine / Kern Sampling Date: 12/8/23

Applicant/Owner: SCE State: CA Sampling Point: W0008-SP3

Investigator(s): S. Galindo, S. Gulyas Section, Township, Range: S0, T9N, R19W

Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): C Lat: 34.874595 Long: -118.895560 Datum: NAD83

Soil Map Unit Name: Area not surveyed, access denied NWI classification: R4SBC

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Continued findings from SP2. Similar veg, assumed no soils or hydrology.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: ____ (A)

Total Number of Dominant Species Across All Strata: ____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

__ Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Same as other SP. (W0008-SP2)

SOIL

Sampling Point: W0008-SP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Same as other SP. (W0008-SP2)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Same as other SP. (W0008-SP2)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Grapevine/Kern Sampling Date: 12/6/23
Applicant/Owner: SCE State: CA Sampling Point: W0010-SP1
Investigator(s): S. Galindo, S. Gulyas Section, Township, Range: 50, T10N, R19W
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 40
Subregion (LRR): C Lat: 34.924918 Long: -118.919754 Datum: NAD83
Soil Map Unit Name: 461 - Geghus-Tecuya association, 30 to 75 percent slopes NWI classification: R4SBC
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:
On a hillside in an extremely sloped drainage area.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft.)			
1. Baccharis Salicifolia	70	Y	FAC
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5 ft.)			
1. Hirschfeldia incana	5	Y	UPL
2. Marrubium vulgare	3	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
	8 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 = ____	
FACW species ____	x 2 = ____	
FAC species 70	x 3 = 210	
FACU species 3	x 4 = 12	
UPL species 5	x 5 = 25	
Column Totals: 78 (A)	247 (B)	

Prevalence Index = B/A = 3.17

Hydrophytic Vegetation Indicators:
__ Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Vegetation within 40% sloped area on hillside.

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Based on veg, no hydrophytic hydrologic indicators, and first-order ephemeral drainage in steep (40%) hillslopes, we can assume no hydric soils and no wetland conditions.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

Water Table Present? Yes _____ No _____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrologic indicators present. Slope does not hold water.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: GKR City/County: Stallion Springs / Kern Sampling Date: 12/17/23

Applicant/Owner: SCE State: CA Sampling Point: W0015-SP1

Investigator(s): S. Galindo, S. Gulyas Section, Township, Range: S34, T32S, R31E

Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR): C Lat: 35.094526 Long: -118.635489 Datum: NAD83

Soil Map Unit Name: 140 - Havala sandy loam, 0 to 2 percent slopes NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Adjacent to Banducci Road and ranches. Located in a flat valley with cattle, agricultural activities.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5 ft.)			
1. Asclepias fascicularis	2	N	FAC
2. Juncus mexicanus	25	Y	FACW
3. Stipa pulchra	10	Y	UPL
4.			
5.			
6.			
7.			
8.			
	37 = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum ____ % Cover of Biotic Crust ____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	25	x 2 =	50
FAC species	2	x 3 =	6
FACU species	0	x 4 =	0
UPL species	10	x 5 =	50
Column Totals:	37 (A)		106 (B)

Prevalence Index = B/A = 2.86

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:
Veg. present. meets for dominance test and prevalence index.

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					LC	
4-8	5YR 3/1	100					LC, gravel	
8-14	10YR 3/1	99	2.5YR 3/6	1	C	M	LC	Prominent redox.

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5) **(LRR C)**
- __ 1 cm Muck (A9) **(LRR D)**
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)
- __ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- __ 1 cm Muck (A9) **(LRR C)**
- __ 2 cm Muck (A10) **(LRR B)**
- __ Reduced Vertic (F18)
- __ Red Parent Material (TF2)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

No hydric soil indicators. Redox (minimal) in third layer.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- X Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1) **(Nonriverine)**
- __ Sediment Deposits (B2) **(Nonriverine)**
- __ Drift Deposits (B3) **(Nonriverine)**
- __ Surface Soil Cracks (B6)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Water-Stained Leaves (B9)
- __ Salt Crust (B11)
- __ Biotic Crust (B12)
- __ Aquatic Invertebrates (B13)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres along Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- __ Water Marks (B1) **(Riverine)**
- __ Sediment Deposits (B2) **(Riverine)**
- __ Drift Deposits (B3) **(Riverine)**
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Shallow Aquitard (D3)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): 0

Water Table Present? Yes _____ No _____ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Standing water downstream of pit at mouth of culvert.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 66kV City/County: Kern County Sampling Date: 1/16/24

Applicant/Owner: SCE State: CA Sampling Point: W0017-SP1

Investigator(s): K. Klinefelter, N. Argueta Section, Township, Range: Unsectioned portion of Lebec topo

Landform (hillslope, terrace, etc.): Flat plain Local relief (concave, convex, none): none Slope (%): 0

Subregion (LRR): C-med Lat: 34.842828893 Long: -118.8623853 Datum: WGS-84

Soil Map Unit Name: Area not surveyed - access denied NWI classification: Freshwater emergent wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Sample point representative of field with consistent veg. Appears grazed with soil disturbance and cow pies. Runs parallel to I-5 freeway.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5')			
1. Juncus mexicanus	10	N	FACW
2. Erodium botrys	30	Y	FACU
3. Leymus triticoides	30	Y	FAC
4. Bromus diandrus	15	N	UPL
5. Brassica nigra	5	N	UPL
6. Bromus madritensis	10	N	UPL
7.			
8.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	30	x 3 =	90
FACU species	30	x 4 =	120
UPL species	30	x 5 =	150
Column Totals:	100 (A)		380 (B)

Prevalence Index = B/A = 3.80

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks:
Did not pass dominance test and prevalence index.

SOIL

Sampling Point: WD017-SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3in	10yr 2/2	100					loam	See notes
3-10in	10yr 2/1	100					loam	See notes
10-12in	10yr 3/2	93	7.5yr 4/6	7	C	M	loam	Redox

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

0-3in: layer is dense with grassy roots
3-10in: Some roots present but no redox
10-12in: Contain redox

- Layer with redox does not start high enough (must start 8in from surface) to meet F6

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No sign of drainage patterns or association with waters. Soils are damp/moist but not saturated.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman - Kern River 66kV City/County: Lebec/Kern County Sampling Date: 12-6-23
Applicant/Owner: SCE State: CA Sampling Point: W0018-SP1
Investigator(s): K. Klinefelter, A Fowler Section, Township, Range: Castac Land Grants, Civil Colonies
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1
Subregion (LRR): C-Med Lat: 34.854105 Long: -118.874388 Datum: WGS-84
Soil Map Unit Name: Area not surveyed - access denied to SMU NWI classification: Freshwater Emergent Wetland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Sample point taken in an open field previously mapped as a wetland. The area is adjacent to JD feature U007.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10 ft)			
1. NA			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Centaurea solstitialis	1	N	UPL
2. Bromus madritensis	25	Y	UPL
3. Leymus Triticoides	35	Y	FAC
4. Leymus Condensatus	10	N	FACU
5. Lepidium latifolium	1	N	FAC
6.			
7.			
8.			
	72 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 36	x 3 = 108
FACU species 10	x 4 = 40
UPL species 26	x 5 = 130
Column Totals: 72 (A)	278 (B)

Prevalence Index = B/A = 3.86

Hydrophytic Vegetation Indicators:
___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No ✓

Remarks:
Does not meet for Dominance Test or Prevalence Index.

SOIL

Sampling Point: W1-U1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	100					Loam	Roots + looser in top 2

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

No redox or layers - does not meet any hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrology indicators and does not meet FAC-Neutral test

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman - Kern River 66 kV City/County: Kern County Sampling Date: 12/6/23
Applicant/Owner: SCE State: CA Sampling Point: W0022-SP1
Investigator(s): K. Klinefelter, A Fowler Section, Township, Range: Castac Land Grants, Civil Colonies
Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): None Slope (%): 0
Subregion (LRR): C-Med Lat: 34.830845 Long: -118.850564 Datum: WGS-84
Soil Map Unit Name: Area not surveyed - access denied for SMV NWI classification: Freshwater Forested/Shrub Wetland
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓ No ____	Is the Sampled Area within a Wetland? Yes ____ No ✓
Hydric Soil Present?	Yes ____ No ✓	
Wetland Hydrology Present?	Yes ____ No ✓	

Remarks:
Sample point taken near access road and Feature 00005 in area that represents what was previously mapped as wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix laevigata	5	Y	FACW
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. Salix laevigata	<1		FACW
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: ____)			
1. Artemisia dracunculus	25	✓	FACU
2. Lepidium latifolium	25	✓	FAC
3. Hirschfeldia incana	5		NI
4.			
5.			
6.			
7.			
8.			
	= Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum 45 % Cover of Biotic Crust ____

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 66 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species 5	x 2 =	10
FAC species 25	x 3 =	75
FACU species 25	x 4 =	100
UPL species	x 5 =	
Column Totals:	(A)	(B)

Prevalence Index = B/A = 3.63

Hydrophytic Vegetation Indicators:
✓ Dominance Test is >50%
__ Prevalence Index is ≤3.0[1]
__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:
Meets for Dominance Test but not Prevalence Index.

SOIL

Sampling Point W2U2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 5/2		—				Sandy loam	fine gravel present
8-14	10YR 5/2		—				Sandy loam	fine textur

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) **(LRR C)**
- ___ 1 cm Muck (A9) **(LRR D)**
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) **(LRR C)**
- ___ 2 cm Muck (A10) **(LRR B)**
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ___ No ✓

Remarks:

No redox - does not meet for any hydric soil indicators.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) **(Riverine)**
- ___ Sediment Deposits (B2) **(Riverine)**
- ___ Drift Deposits (B3) **(Riverine)**
- ✓ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches) _____

Wetland Hydrology Present? Yes ___ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Does not meet the FAC-Neutral test

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Gorman-Kern River 66 kV City/County: Kern County Sampling Date: 1/16/24

Applicant/Owner: SCE State: CA Sampling Point: W0022-SP2

Investigator(s): K Klinefelter, N. Argueta Section, Township, Range: Unsectioned portion of Lebec topo

Landform (hillslope, terrace, etc.): Flat plain Local relief (concave, convex, none): None Slope (%): 0%

Subregion (LRR): C-Med Lat: 34.83392549 Long: -118.85376618 Datum: WGS-84

Soil Map Unit Name: Area not surveyed - access denied NWI classification: NA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No ____	**Is the Sampled Area within a Wetland?** Yes ____ No ✓
Hydric Soil Present?	Yes ____	No ✓	
Wetland Hydrology Present?	Yes ____	No ✓	

Remarks:
Sample pit taken southeast side of fencing and is representative of larger plain dominated by Lepidium and Tamarisk.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. NA			
2.			
3.			
4.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: 10')			
1. Tamarisk aphylla	10	Y	FAC
2.			
3.			
4.			
5.			
	10 = Total Cover		
Herb Stratum (Plot size: 5')			
1. Lepidium latifolium	30	Y	FAC
2. Erodium botrys	40	Y	FACU
3. Bromus diandrus	15	N	UPL
4.			
5.			
6.			
7.			
8.			
	85 = Total Cover		
Woody Vine Stratum (Plot size: NA)			
1.			
2.			
	____ = Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species ____	x 1 =	____
FACW species ____	x 2 =	____
FAC species ____	x 3 =	____
FACU species ____	x 4 =	____
UPL species ____	x 5 =	____
Column Totals: ____ (A)		____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

__ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No ____

Remarks:
Ground fully covered in veg or leaf litter.

SOIL

Sampling Point: WOO22-SP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-9	10YR 3/2	100					clay loam	
9-13	10YR 4/2	100					loamy sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: NA

Depth (inches): ___

Hydric Soil Present? Yes ___ No ✓

Remarks:

0-9" - soils moist, more compact

9-13" - looser, sandier soils. contains roots but no redox.

No redox in sample, does not meet for hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): ___

Wetland Hydrology Present? Yes ___ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

- Soils are moist and damp but not saturated.
- No drainage patterns, area is relatively the same elevation

Appendix E

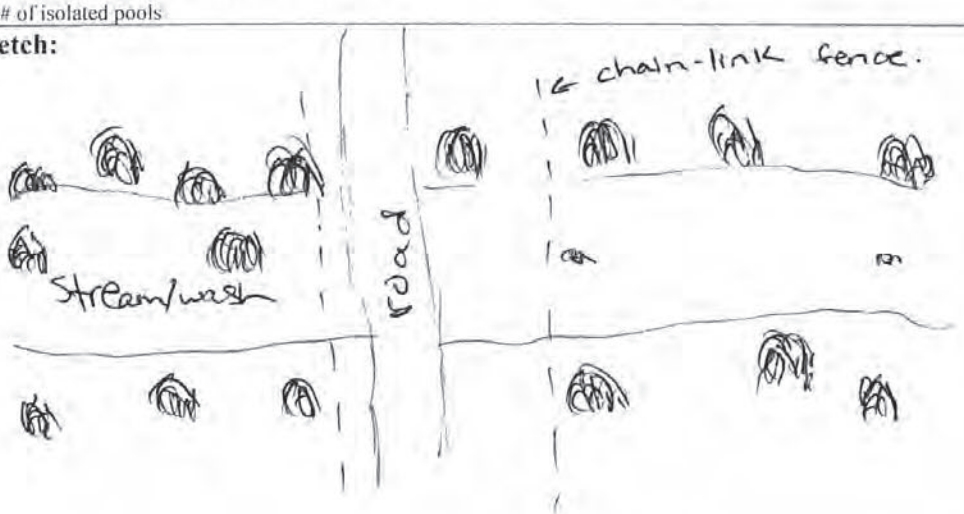
Stream Duration Assessment Method Forms

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: GKR		
Site code or identifier:	Assessor(s): S. Galindo, S. Gulyas	
Waterway name: 001-KK-SDAM1		Visit date: 12/8/23
Current weather conditions (check one) ☐ Storm/heavy rain ☐ Steady rain ☐ Intermittent rain ☐ Snowing ☐ Cloudy (___ % cover) ☒ Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): Rain on 12/7/23 morning	Coordinates at downstream end (decimal degrees): Lat (N): 34.828987 Long (W): -118.856725 Datum: NAD83
Surrounding land-use within 100 m (check one or two): ☐ Urban/industrial/residential ☐ Agricultural (farmland, crops, vineyards, pasture) ☐ Developed open-space (e.g., golf course) ☐ Forested ☒ Other natural wash ☐ Other:	Describe reach boundaries: Cottonwood tree downstream; Rabbitbrush wash, chain-link fence 10ft from road down and soft upstream of road.	
Mean channel width (m): 16 m	Reach length (m): 40x width, min 40 m, max 200 m: 200 m	Enter photo ID, or check if completed Top down: 00-KK-PP1 Mid down: ___ Mid up: ___ Bottom up: ___
Disturbed or difficult conditions (check all that apply): ☐ Recent flood or debris flow ☐ Stream modifications (e.g., channelization) ☐ Diversions ☐ Discharges ☐ Drought ☐ Vegetation removal/limitations ☒ Other (explain in notes) Road crossing ☐ None	Notes on disturbances or difficult site conditions:	
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools	Comments on observed hydrology: No hydrology.	

Site sketch:



1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many aquatic invertebrates are quantified in a 15-minute search?

Number of individuals quantified:
☒ None
☐ 1 to 19
☐ 20 +

(Do not count mosquitos)

Photo ID: _____

3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?

Yes / No

Ephemeroptera larva
Image credit Dieter Tracey

Plecoptera larva
Tracey Saxby

Trichoptera larva
Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?		Notes on algae cover:	Photo ID:
☐ Check if *all* observed algae appear to be deposited from an upstream source.	☒ Not detected ☐ Yes, < 10% cover ☐ Yes, ≥ 10% (check Yes in single indicator below)		

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	☐ Yes ☒ No, no fish ☐ No, only non-native mosquitofish		
Algae cover ≥ 10%	☐ Yes ☒ No		

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
PP1	Upstream from edge of road
PP2	Downstream from center

Additional notes about the assessment:

Wash (ephemeral) with rabbitbrush scrub.

Classification: _____

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
	Few (1-19)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

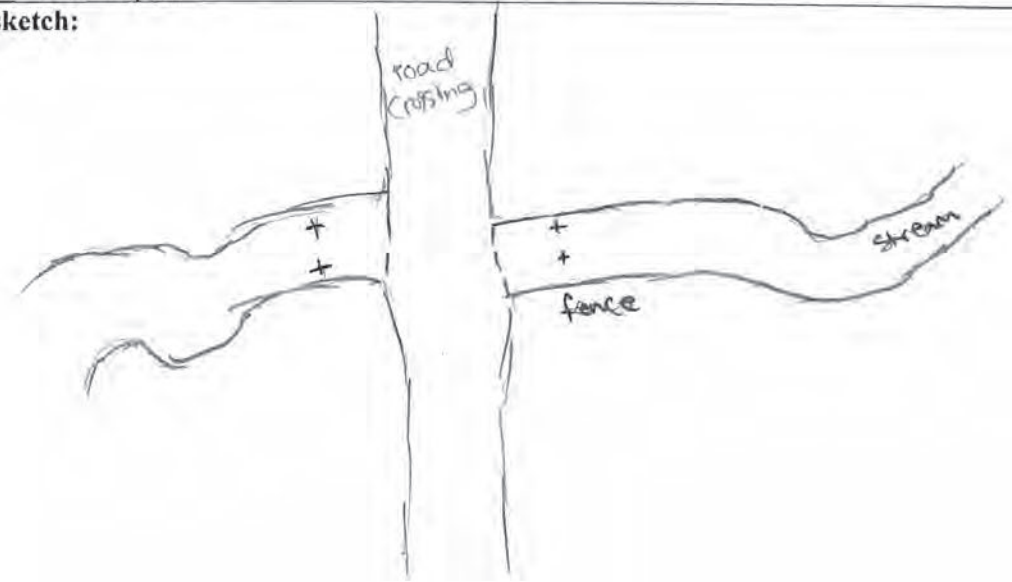
Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: GILA		
Site code or identifier:	Assessor(s): S. Galindo, S. Gulyas	
Waterway name: 0031+SDAM1		Visit date: 12/1/23
Current weather conditions (check one) ☐ Storm/heavy rain ☐ Steady rain ☐ Intermittent rain ☐ Snowing ☒ Cloudy (90 % cover) ☐ Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week):	Coordinates at downstream end (decimal degrees): Lat (N): 35.129940 Long (W): −118.720240 Datum: NAD83
Surrounding land-use within 100 m (check one or two): ☐ Urban/industrial/residential ☒ Agricultural (farmland, crops, vineyards, pasture) ☐ Developed open-space (e.g., golf course) ☐ Forested ☐ Other natural ☐ Other:	Describe reach boundaries: Chain-link fence up/downstream 10 ft. from road crossing. Stream w/ eroded low flow and minor vegetation.	
Mean channel width (m): 2 m	Reach length (m): 40x width, min 40 m, max 200 m: 80 m	Enter photo ID, or check if completed Top down: ____ Mid down: ✓0031-PP2 Mid up: ✓0031-PP1 Bottom up: ____
Disturbed or difficult conditions (check all that apply): ☐ Recent flood or debris flow ☒ Stream modifications (e.g., channelization) ☐ Diversions ☐ Discharges ☐ Drought ☐ Vegetation removal/limitations ☐ Other (explain in notes) ☐ None	Notes on disturbances or difficult site conditions: Road for access blocking flow up/downstream. No culverts.	
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow # of isolated pools	Comments on observed hydrology:	

Site sketch:



1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many aquatic invertebrates are quantified in a 15-minute search?

Number of individuals quantified:
☒ None
☐ 1 to 19
☐ 20 +

(Do not count mosquitos)

Photo ID: _____

3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?

Yes / No

Ephemeroptera larva
Image credit: Dieter Tracey

Plecoptera larva
Tracey Saxby

Trichoptera larva
Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?		Notes on algae cover:	Photo ID:
☐ Check if *all* observed algae appear to be deposited from an upstream source.	☒ Not detected ☐ Yes, < 10% cover ☐ Yes, ≥ 10% (check Yes in single indicator below)		

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	☐ Yes ☒ No, no fish ☐ No, only non-native mosquitofish		
Algae cover ≥ 10%	☐ Yes ☒ No		

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
PP1	From east up/downstream
PP2	On road up/downstream
PP3	West of road

Additional notes about the assessment:

NO water present.
Highly eroded low flow channel.

Classification: _____

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	Ephemeral
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
	Few (1-19)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Present			At least intermittent
Few (1-2)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
			Present		At least intermittent
		Present	Absent		At least intermittent
			Present		Intermittent
Many (3+)	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

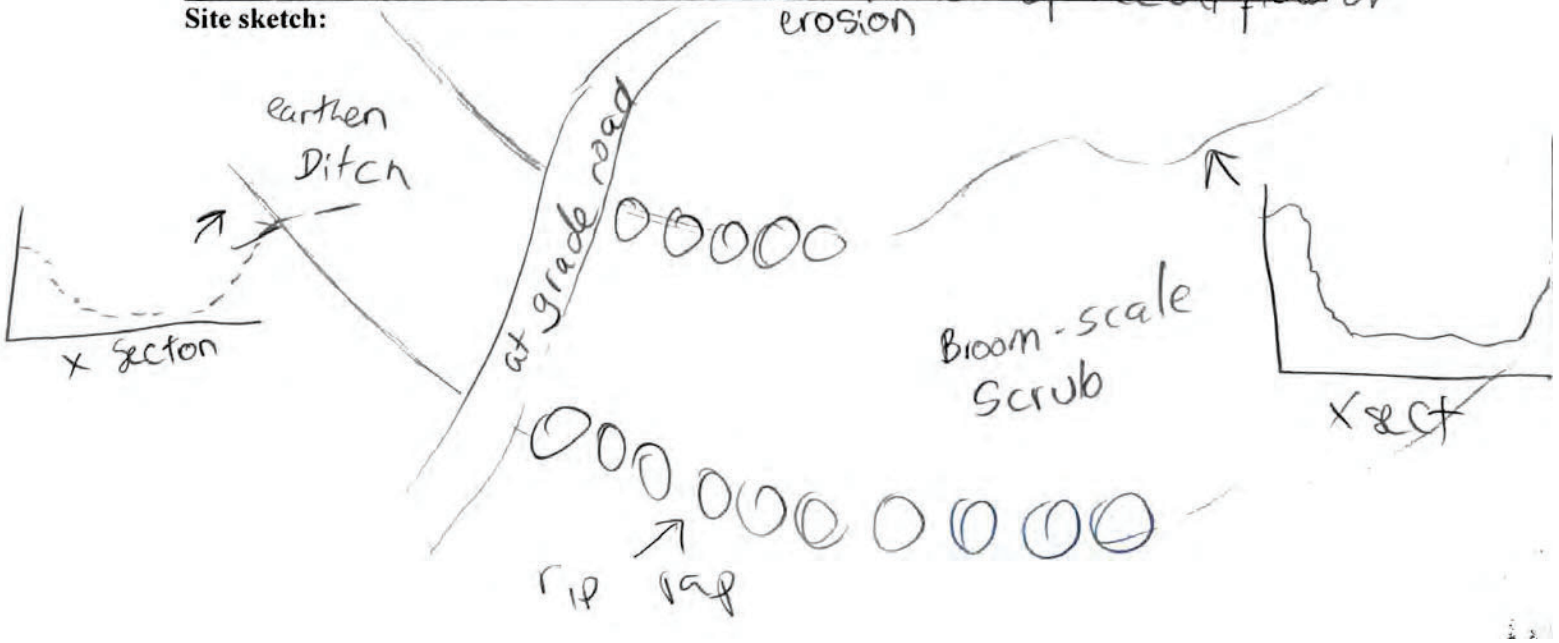
Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: SCE Gorman-Kern River 66 kV Subtransmission		
Site code or identifier: 0019	Assessor(s): A. Fenler, K. Klinefelter	
Waterway name: 0019		Visit date: 12/7/23
Current weather conditions (check one) ☐ Storm/heavy rain ☐ Steady rain ☐ Intermittent rain ☐ Snowing ☒ Cloudy (95% cover) ☐ Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): none	Coordinates at downstream end (decimal degrees): Lat (N): 35.125406 Long (W): -118.841375 Datum: WGS-84
Surrounding land-use within 100 m (check one or two): ☐ Urban/industrial/residential ☒ Agricultural (farmland, crops, vineyards, pasture) ☐ Developed open-space (e.g., golf course) ☐ Forested ☒ Other natural ☐ Other:	Describe reach boundaries: To south a relatively natural feature with sandy bed & meandering low-flow areas, Channeled into a rip-rap lined area that turns into an artificial channel configuration	
Mean channel width (m): 33 m	Reach length (m): 40x width, min 40 m, max 200 m: 200 m	Enter photo ID, or check if completed Top down: _____ Mid down: 0019-PP1 Mid up: _____ Bottom up: _____
Disturbed or difficult conditions (check all that apply): ☐ Recent flood or debris flow ☑ Stream modifications (e.g., channelization) ☐ Diversions ☐ Discharges ☐ Drought ☐ Vegetation removal/limitations ☑ Other (explain in notes) ☐ None	Notes on disturbances or difficult site conditions: after undisturbed section there is large (3-4 ft) rip rap along it, then a road crossing, after which it becomes an earthen ditch	
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools	Comments on observed hydrology: Dry wash w/ HL lots of residual plant matter from 2023 growing season no evidence of recent flow or erosion	

Site sketch:



1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☒ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many aquatic invertebrates are quantified in a 15-minute search?

Number of individuals quantified:
☒ None
☐ 1 to 19
☐ 20 +

(Do not count mosquitos)

Photo ID:_____

3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?

Yes / No

Ephemeroptera larva
Image credit: Dieter Tracey

Plecoptera larva
Tracey Saxby

Trichoptera larva
Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?		Notes on algae cover:	Photo ID:
☐ Check if *all* observed algae appear to be deposited from an upstream source.	☒ Not detected ☐ Yes, < 10% cover ☐ Yes, ≥ 10% (check Yes in single indicator below)		

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	☐ Yes ☒ No, no fish ☐ No, only non-native mosquitofish		
Algae cover ≥ 10%	☐ Yes ☒ No		

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

No other animals/aquatics present

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
	See JD confirmation

Additional notes about the assessment:

Classification: Ephemeral

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	**Ephemeral**
				Present	**At least intermittent**
			Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present	Absent	Absent	**Need more information**
				Present	**At least intermittent**
	Few (1-19)	Absent	Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present			**At least intermittent**
	Many (20+)	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present			**At least intermittent**
Few (1-2)	None	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present		**At least intermittent**
	Few (1-19)	Absent	Absent		**Intermittent**
			Present		**At least intermittent**
		Present			**At least intermittent**
	Many (20+)	Absent	Absent		**Intermittent**
			Present		**At least intermittent**
		Present	Absent		**At least intermittent**
			Present		**Intermittent**
Many (3+)	None	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present		**At least intermittent**
	Few (1-19)	Absent			**At least intermittent**
		Present			**Perennial**
	Many (20+)	Absent			**At least intermittent**
		Present			**Perennial**

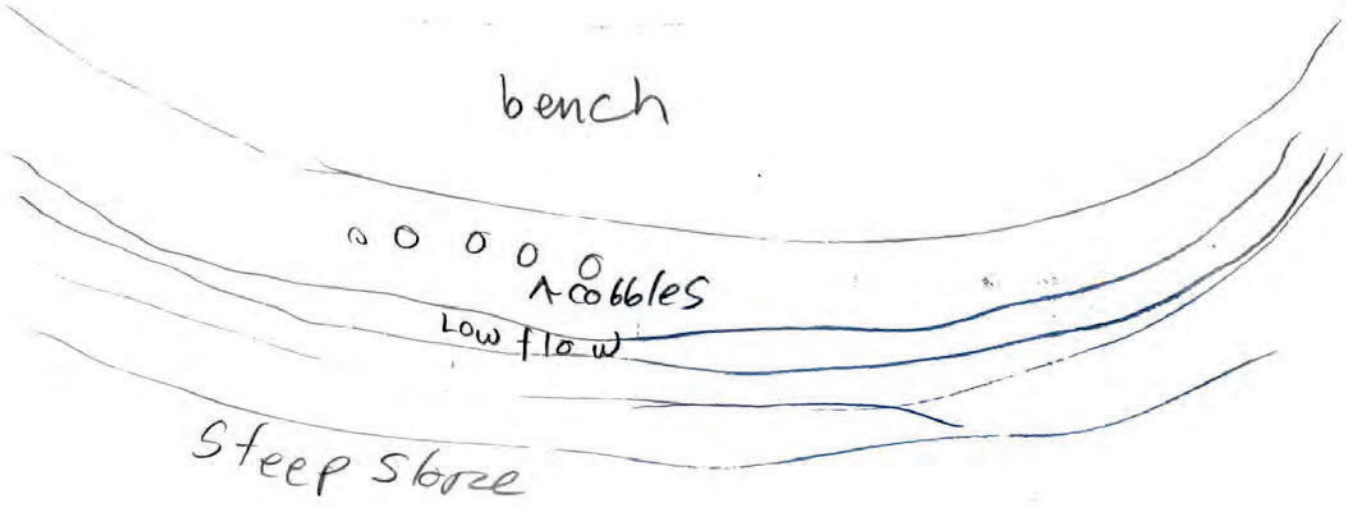
Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: SCE Gorman-Kern River 66 kV Subtransmission		
Site code or identifier: 0044	Assessor(s): K. Klinefelter, A. Fowler	
Waterway name: 0044		Visit date: 12/7/23
Current weather conditions (check one) ☐ Storm/heavy rain ☐ Steady rain ☐ Intermittent rain ☐ Snowing ☑ Cloudy (80 % cover) ☐ Clear/Sunny	Notes on current or recent weather conditions (e.g., precipitation in previous week): No precipitation in previous week	Coordinates at downstream end (decimal degrees): Lat (N): 35.393089 Long (W): -118.808378 Datum: WGS-84
Surrounding land-use within 100 m (check one or two): ☐ Urban/industrial/residential ☒ Agricultural (farmland, crops, vineyards, pasture) ☐ Developed open-space (e.g., golf course) ☐ Forested ☐ Other natural ☐ Other:	Describe reach boundaries: low flow Sandy bottomed Channel with cobble on either side, on w side presence of 1 bench & occasionally two along length, on east, only one occasional bench largely natural	
Mean channel width (m): 9 m	Reach length (m): 40x width, min 40 m, max 200 m: 200 m	Enter photo ID, or check if completed Top down: _____ Mid down: _____ Mid up: 0044-PP1 Bottom up: 0044-PP3
Disturbed or difficult conditions (check all that apply): ☐ Recent flood or debris flow ☐ Stream modifications (e.g., channelization) ☐ Diversions ☐ Discharges ☐ Drought ☐ Vegetation removal/limitations ☑ Other (explain in notes) ☐ None	Notes on disturbances or difficult site conditions: A dirt road runs across the upstream end of the feature.	
Observed hydrology: 0 % of reach with surface flow 0 % of reach with sub-surface or surface flow 0 # of isolated pools	Comments on observed hydrology: Dry sandy wash confined by steep banks upstream and fans out downstream.	

Site sketch:



1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the **Arid West** regional wetland plant list) within the assessment area: **within the channel or up to one half-channel width**. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable: ☐ No vegetation in assessment area ☐ No hydrophytes in assessment area

Species	Odd distribution?	Notes	Photo ID
mulefat	<2% all seedlings		
Populus fremontii	"		
Salix goodingii	<2%		
Cocklebur	<2%		

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many aquatic invertebrates are quantified in a 15-minute search?

Number of individuals quantified: ☒ None ☐ 1 to 19 ☐ 20 +

(Do not count mosquitos)

Photo ID:_____

3. Is there evidence of aquatic stages of EPT (Ephemeroptera, Plecoptera and Trichoptera)?

Yes / No

Ephemeroptera larva
Image credit: Dieter Tracey

Plecoptera larva
Tracey Saxby

Trichoptera larva
Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed? ☐ Check if *all* observed algae appear to be deposited from an upstream source.	☐ Not detected ☒ Yes, < 10% cover ☐ Yes, ≥ 10% (check Yes in single indicator below)	Notes on algae cover: driedout + white in mats	Photo ID:

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	☐ Yes		
	☒ No, no fish		
	☐ No, only non-native mosquitofish		
Algae cover ≥ 10%	☐ Yes		
	☒ No		

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description
See JDR	

Additional notes about the assessment:

Classification: _____

1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
None	None	Absent	Absent	Absent	**Ephemeral**
				Present	**At least intermittent**
			Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present			**At least intermittent**
	Few (1-19)	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present			**At least intermittent**
	Many (20+)	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present	Absent	**Need more information**
				Present	**At least intermittent**
		Present			**At least intermittent**
Few (1-2)	None	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present		**At least intermittent**
	Few (1-19)	Absent	Absent		**Intermittent**
			Present		**At least intermittent**
		Present			**At least intermittent**
	Many (20+)	Absent	Absent		**Intermittent**
			Present		**At least intermittent**
		Present	Absent		**At least intermittent**
			Present		**Intermittent**
Many (3+)	None	Absent	Absent	Absent	**Need more information**
				Present	**At least intermittent**
			Present		**At least intermittent**
	Few (1-19)	Absent			**At least intermittent**
		Present			**Perennial**
	Many (20+)	Absent			**At least intermittent**
		Present			**Perennial**

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Appendix F

Jurisdictional Delineation Results

Jurisdictional Delineation Results by Feature Type

Feature Number	Feature Type	Center Coordinates (Lat/Long)	Figures 6 & 7 Sheet No. (Appendix A)[1]	Site Photos – Photo No. (Appendix B)	USACE/RWQCB				CDFW			
					Non-wetland Waters		Wetland Waters		Streambed		Riparian	
					Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]
0001	Intermittent	34.82837165, -118.8473776	Sheet 31 (Figure 7)	W0001-PP4	--	--	--	--	1.592	885	--	--
0002	Ephemeral	34.79391544, -118.8278779	Sheet 34		0.028	176	--	--	0.144	202	--	--
0003	Ephemeral	34.80273161, -118.8305294	Sheet 33		0.049	545	--	--	0.730	784	--	--
0004	Ephemeral	34.80973829, -118.8305382	Sheet 33	0004-PP4	0.234	1,046	--	--	0.260	1,055	--	--
0005	Ephemeral	34.83059711, -118.8506053	Sheet 31	0005-PP1	0.013	120	--	--	0.194	252	--	--
0006	Ephemeral	34.85245417, -118.8716387	Sheet 30	0006-PP2, 0006-PP3	0.039	224	--	--	0.126	247	--	--
0007	Ephemeral	34.85545718, -118.8752278	Sheet 30	0007-PP3	0.848	2,115	--	--	1.090	2,120	--	--
0008	Ephemeral	34.87065846, -118.8866304	Sheet 29	0008-PP1	0.526	1,117	--	--	0.728	1,147	--	--
0009	Ephemeral	34.87618629, -118.8956567	Sheet 28	W0008-PP2, W0008-PP3	0.022	185	--	--	0.067	193	--	--
0010	Ephemeral	34.89146986, -118.9171779	Sheet 27		0.023	335	--	--	0.155	343	--	--
0011	Ephemeral	35.1158537, -118.6972945	Sheet 27		0.499	535	--	--	0.023	205	--	--
0012	Ephemeral	34.90171824, -118.9205597	Sheet 27		0.005	203	--	--	0.014	208	--	--
0013	Ephemeral	34.92487138, -118.9190475	Sheet 25	W0010-PP1	0.016	274	--	--	0.034	278	--	--
0014	Ephemeral	34.93447333, -118.9238193	Sheet 25		0.062	207	--	--	0.106	214	--	--
0015	Ephemeral	34.93514245, -118.9239604	Sheet 25		0.003	129	--	--	0.009	131	--	--
0016	Ephemeral	34.93639404, -118.9235389	Sheet 25		0.114	404	--	--			0.372	432
0018	Ephemeral	35.03972091, -118.8445917	Sheet 23		0.077	177	--	--	0.230	219	--	--
0019	Ephemeral	35.12496089, -118.8410214	Sheet 22	0019-PP1, 0019-PP2	0.831	538	--	--	1.133	580	--	--
001-KK	Ephemeral	34.82889732, -118.8567952	Sheet 31	001-KK-PP1	0.042	82	--	--	0.045	85	--	--
001-LC	Ephemeral	34.88959621, -118.9143294	Sheet 28		0.025	185	--	--	0.037	189	--	--
001-SG	Ephemeral	34.93146061, -118.9228064	Sheet 25	001-SG-PP1	0.002	25	--	--	0.004	27	--	--
0023	Ephemeral	35.16421845, -118.7630275	Sheet 13		0.025	187	--	--	0.025	187	--	--
0024	Ephemeral	35.1598557, -118.7600603	Sheet 14		0.014	153	--	--	0.014	153	--	--
0025	Ephemeral	35.15711392, -118.7581401	Sheet 14		0.016	231	--	--	0.021	232	--	--
0026	Ephemeral	35.1520198, -118.754711	Sheet 14		0.010	152	--	--	0.164	168	--	--
0027	Ephemeral	35.14112872, -118.7470591	Sheet 15		0.005	233	--	--	0.080	256	--	--
0028	Ephemeral	35.13265367, -118.7408203	Sheet 15		0.051	289	--	--	0.314	340	--	--
0029	Ephemeral	35.12894328, -118.7300996	Sheet 16		0.004	182	--	--	0.012	184	--	--
002-KK	Intermittent	34.85846421, -118.8773571	Sheet 30	002-KK-PP8	0.155	574	--	--	0.232	579	0.273	679
002-LC	Ephemeral	34.90303472, -118.9207384	Sheet 27		0.004	153	--	--	0.011	155	0.088	135
0030	Ephemeral	35.1279303, -118.7265069	Sheet 16		0.007	303	--	--	0.021	305	--	--
0031	Ephemeral	35.1263938, -118.7212954	Sheet 16	0031-PP1, 0031-PP2	0.012	181	--	--	0.042	221	--	--
0032	Ephemeral	35.1160437, -118.6988569	Sheet 17		0.002	27	--	--	0.005	203	--	--
0033	Ephemeral	35.11403531, -118.6952445	Sheet 17		0.004	203	--	--	0.007	160	--	--
0035	Ephemeral	35.1090764, -118.6864161	Sheet 18		0.007	395	--	--	0.021	307	--	--

Feature Number	Feature Type	Center Coordinates (Lat/Long)	Figures 6 & 7 Sheet No. (Appendix A)[1]	Site Photos – Photo No. (Appendix B)	USACE/RWQCB				CDFW			
					Non-wetland Waters		Wetland Waters		Streambed		Riparian	
					Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]
0036	Ephemeral	35.10479915, -118.6787323	Sheet 18		0.051	305	--	--	0.501	246	--	--
0037	Ephemeral	35.1039064, -118.6771948	Sheet 18		0.054	208	--	--	0.254	265	--	--
0038	Ephemeral	35.10241422, -118.6743026	Sheet 18		0.022	240	--	--	0.035	199	--	--
0039	Ephemeral	35.09743995, -118.6654924	Sheet 19		0.004	196	--	--	0.008	164	--	--
003-LC	Ephemeral	34.90390251, -118.9208735	Sheet 27		0.005	205	--	--	0.014	206	0.046	63
0040	Ephemeral	35.09521144, -118.6616941	Sheet 19		0.005	221	--	--	0.005	221	--	--
0042	Ephemeral	35.2823982, -118.8074189	Sheet 11	0042-PP1, 0042-PP4	0.281	671	--	--	0.973	393	--	--
0044	Intermittent	35.39286099, -118.8076646	Sheet 5	0044-PP1, 0044-PP3	0.364	626	--	--	1.425	736	--	--
0045	Ephemeral	35.39457931, -118.8080208	Sheet 5		0.032	291	--	--	0.045	292	--	--
0046	Ephemeral	35.40467746, -118.8081156	Sheet 4		0.027	395	--	--	0.110	403	--	--
0047	Ephemeral	35.40712728, -118.8081651	Sheet 4		0.004	183	--	--	0.013	185	--	--
0048	Ephemeral	35.41313398, -118.8081937	Sheet 4		0.019	169	--	--	0.076	185	--	--
0049	Ephemeral	35.41767262, -118.808194	Sheet 3		0.005	229	--	--	0.032	233	--	--
004-LC	Ephemeral	34.90714622, -118.9203476	Sheet 26		0.010	218	--	--	0.025	223	0.043	51
0050	Ephemeral	35.42066031, -118.8074461	Sheet 3		0.004	180	--	--	0.050	189	--	--
0051	Ephemeral	35.42148875, -118.8073768	Sheet 3		0.005	206	--	--	0.014	208	--	--
0052	Ephemeral	35.42228435, -118.8069291	Sheet 3		0.012	514	--	--	0.058	513	--	--
0053	Ephemeral	35.42584367, -118.805688	Sheet 3		0.005	221	--	--	0.025	225	--	--
0054	Ephemeral	35.42708251, -118.8050844	Sheet 3		0.005	219	--	--	0.020	221	--	--
0055	Ephemeral	35.42930863, -118.803578	Sheets 2 and 3		0.005	219	--	--	0.030	224	--	--
0056	Ephemeral	35.43082547, -118.8025673	Sheets 2 and 3		0.020	219	--	--	0.060	226	--	--
0057	Ephemeral	35.43753457, -118.7971784	Sheet 2		0.061	882	--	--	0.162	886	--	--
0058	Intermittent	35.45075792, -118.7829039	Sheet 1		1.495	1,074	--	--	2.600	1,093	--	--
0059	Ephemeral	35.4581632, -118.7801158	Sheet 1	0059-PP5, 0059-PP7	1.809	1,344	--	--	3.185	1,709	--	--
005-LC	Ephemeral	35.1292869, -118.7313448	Sheet 16		0.004	185	--	--	0.013	185	--	--
0060	Ephemeral	35.10794048, -118.684331	Sheet 18		0.019	206	--	--	0.047	209	--	--
0061	Ephemeral	34.93329819, -118.9234582	Sheet 25	0016-PP1	0.038	509	--	--	0.077	524	--	--
0062	Ephemeral	35.37237007, -118.8080753	Sheet 6		0.015	251	--	--	0.023	252	--	--
0063	Ephemeral	35.37213296, -118.8080982	Sheet 6		0.009	308	--	--	0.018	309	--	--
0064	Ephemeral	35.38216264, -118.8080693	Sheet 6		0.013	219	--	--	0.020	220	--	--
0065	Ephemeral	35.36676528, -118.8080261	Sheet 7		0.248	201	--	--	0.275	239	--	--
0066	Ephemeral	35.37899408, -118.8080442	Sheet 6		0.015	209	--	--	0.015	209	--	--
0067	Ephemeral	35.35964749, -118.8079728	Sheet 7		0.034	456	--	--	0.034	456	--	--
0068	Ephemeral	35.34781336, -118.8076964	Sheet 8	0068-PP2	0.022	283	--	--	0.044	290	--	--
006-LC	Ephemeral	35.10878535, -118.6858668	Sheet 18		0.004	195	--	--	0.013	196	--	--
007-LC	Ephemeral	35.13785702, -118.738032	Sheet 15		0.001	46	--	--	0.002	47	--	--
007-SG	Ephemeral	35.11872781, -118.6972196	Sheet 17		0.006	40	--	--	0.009	40	--	--
008-LC	Ephemeral	35.13976954, -118.7377602	Sheet 15		0.001	42	--	--	0.002	41	--	--
008-SG	Ephemeral	35.11709432, -118.6948918	Sheet 17		0.002	40	--	--	0.007	40	--	--
009-LC	Ephemeral	35.15102073, -118.7452904	Sheet 14		0.001	40	--	--	0.003	41	--	--

Feature Number	Feature Type	Center Coordinates (Lat/Long)	Figures 6 & 7 Sheet No. (Appendix A)[1]	Site Photos – Photo No. (Appendix B)	USACE/RWQCB				CDFW			
					Non-wetland Waters		Wetland Waters		Streambed		Riparian	
					Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]	Acres[2]	Linear Feet[2]
009-SG	Intermittent	34.87658574, -118.8929713	Sheets 28 and 29	W0008-PP4	0.256	577	--	--	0.373	621	--	--
010-LC	Ephemeral	35.15197664, -118.7462334	Sheet 14		0.001	51	--	--	0.003	52	--	--
011-LC	Ephemeral	35.13761824, -118.7444709	Sheet 15		0.008	163	--	--	0.015	163	--	--
012-LC	Ephemeral	35.14144251, -118.7472222	Sheet 15		0.009	188	--	--	0.017	188	--	--
013-LC	Ephemeral	35.14409729, -118.7492631	Sheet 15		0.004	160	--	--	0.011	161	--	--
014-LC	Ephemeral	35.14705089, -118.7513565	Sheet 14 and 15		0.007	323	--	--	0.022	328	--	--
015-LC	Ephemeral	35.15336461, -118.7556575	Sheet 14		0.007	293	--	--	0.020	295	--	--
016-LC	Ephemeral	35.38059422, -118.8080666	Sheet 6		0.015	167	--	--	0.015	167	--	--
017-LC	Ephemeral	35.41572382, -118.8082042	Sheet 4		0.008	176	--	--	0.024	175	--	--
018-LC	Ephemeral	35.43655964, -118.7881996	Sheet 2		0.002	53	--	--	0.006	56	--	--
050-LC	Ephemeral	35.38342898, -118.826032	Sheet 6		0.004	297	--	--	0.027	297	--	--
051-LC	Ephemeral	35.12313441, -118.7060056	Sheet 17		0.027	387	--	--	0.018	387	--	--
052-LC	Ephemeral	34.94119509, -118.9244128	Sheet 24		0.079	165	--	--	0.079	165	--	--
053-LC	Ephemeral	34.94061653, -118.9245713	Sheet 24		0.062	139	--	--	0.062	139	--	--
W0005	Wetland	34.85310906, -118.8722604	Sheet 30 (Figure 6)	W0005-PP4, W0005-PP10	--	--	1.224	537	--	--	--	--
W0011	Wetland	35.11527724, -118.6975111	Sheet 17 (Figure 6)		--	--	0.494	333	--	--	--	--
				Totals	**9.015**	**27,424**	**1.718**	**870**	**18.706**	**28,755**	**0.822**	**1,361**

[1] Sheet numbers apply to both Figures 6 (USACE/RWQCB) and 7 (CDFW) unless otherwise noted.
[2] "--" is indicative of no value applicable.