DOCKETED	
Docket Number:	24-OPT-03
Project Title:	Soda Mountain Solar
TN #:	264860
Document Title:	Revised Aquatic Resources Delineation
Description:	This document is provided in response to CEC data request REV 1 DR BIO-1.
Filer:	Hannah Arkin
Organization:	Resolution Environmental
Submitter Role:	Applicant Representative
Submission Date:	7/17/2025 4:21:15 PM
Docketed Date:	7/17/2025

SO NE A DE

Rincon Consultants, Inc.

250 1st Street Los Angeles, California 90012 805-644-4455

RINCON CONSULTANTS, INC. SINCE 1994

July 7, 2025

Rincon Project No.: 25-17245

Soda Mountain Solar, LLC c/o VC Renewables LLC 110 Edison Place, Suite 312 Newark, New Jersey 07102

Attn: Dustin Thaler

Subject: Aquatic Resources Delineation for the Soda Mountain Solar Project, San Bernardino County, California

Dear Mr. Thaler,

Rincon Consultants, Inc. (Rincon) has prepared the following Aquatic Resources Delineation (ARD) report for the Soda Mountain Solar Project (project). The attached report was prepared in accordance with the United States Army Corps of Engineer's (USACE) Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2017). The delineation was conducted to determine the location and extent of waters and wetlands within a defined Study Area, inclusive of the proposed project site, that are potentially subject to the jurisdiction of the USACE, Lahontan Regional Water Quality Control Board (RWQCB), and California Department of Fish and Game (CDFW).

Prior to the preparation of this ARD, Soda Mountain Solar, LLC provided Rincon a previously completed report assessing aquatic resources for the project, and a technical memorandum assessing impacts to aquatic resources for the project, referenced below:

- SWCA 2024. Aquatic Resources Delineation Report for the Soda Mountain Solar Project, San Bernardino, California; prepared by SWCA Environmental Consultants; prepared for Soda Mountain Solar, LLC; dated December 2023 (Revised June 2024).
- <u>SWCA 2023.</u> Technical Memorandum *Soda Mountain Solar Preliminary Aquatic Resources Impact Assessment (30% Design) SWCA Project No. 68347*; prepared by SWCA Environmental Consultants; prepared for Soda Mountain Solar, LLC; dated November 31, 2023.

Both of the ARD reports, Rincon 2025 and SWCA 2024, assessed the aquatic resources with the identical 3,418-acre study area and concluded similar results regarding the existing site conditions and overall agency jurisdiction. In addition, much of the information provided in the SWCA 2024 report was retained in the Rincon 2025 report from the extensive desktop information provided therein, specifically regarding the existing site conditions, such as culvert locations, soils information, vegetation communities, and hydrology. However, the two reports differed in methodology and resulting acreage of aquatic resources estimated within the Study Area.

Specifically, the SWCA 2024 ARD utilized methodologies consisting of remote sensing, incorporating drone and satellite imagery, field data, and machine learned assisted modeling. From this information, illustrated data was used to estimate jurisdictional acreage within the 3,418-acre study review area. Rincon's 2025 ARD relied heavily on field data collection that captured data best representing the aquatic features within each of the four proposed solar array locations, calculating a mean value, and multiplying by the acreage of the solar array. The entire gen-tie corridor was delineated in the field.



Due to the varying methodology in both reports, the resulting calculations were presented differently. This will be important to note if both reports are being reviewed. Both reports utilized representative information retained from field surveys within the Study Area to estimate jurisdictional features in a greater area; however, the field surveys and methodologies used to extrapolate and estimate jurisdiction from the representative field data differed. Specifically, the SWCA 2024 ARD determined that approximately 643.4 acres of potential RWQCB jurisdiction (non-wetland waters of the state) and CDFW jurisdiction (California Fish and Game Code [FGC] Section 1600 resources) occurs in the 3,418-acre study/review area (SWCA refers to this area as the "review area"). Further, the SWCA 2024 ARD references a "project site" which includes a 2,075-acre area encompassing all proposed project components. The SWCA 2024 ARD and the SWCA 2023 Impact Assessment determined that approximately 373.5 acres of jurisdictional resources (RWQCB and CDFW combined) may be impacted within the 2,075-acre "project site".

Alternatively, Rincon's 2025 ARD calculated jurisdictional features confined within the proposed location of the four solar arrays and the gen-tie route, a 1,544.8-acre area that focused on the proposed impact areas. Within the four solar arrays, strategically placed Representative Sample Plots were placed in each solar array and surveyed to document OHWM and top of bank measurements to determine RWQCB and CDFW jurisdiction. Calculations from this survey effort were used to extrapolate the data collected in the sample plots to estimate the total RWQCB and CDFW jurisdiction within each array. The entire project area proposed for the gen-tie corridor was surveyed to document OHWM and top of bank.

Using this methodology, Rincon's calculations will appear to be lower than what was documented in the SWCA 2024 ARD due to the use of representative sample point in the solar array, which exclude the larger eastern drainage occurring along the eastern portion of the larger 3,418-acre study area and the field survey effort documenting OHWM and top of bank, rather than relying on a variety of imagery sources and modeling. Rincon determined that the jurisdictional areas within the solar arrays and the gen-tie route (1,544.8-acre area), exclusively, total to 181.3 acres of CDFW jurisdiction and 110.3 acres of RWQCB jurisdiction. With the incorporation of the project's complete disturbance footprint, Rincon's impact assessment determined that approximately 149.09 acres (1,819,732 linear feet) of RWQCB jurisdiction occurs within the proposed project site; and approximately 243.02 acres (1,819,732 linear feet) of potential CDFW jurisdiction occurs within the 2,098-acre project site, that includes the four solar arrays, the gen-tie route, and additional impact areas within the 3,418-acre Study Area. Please refer to the attached ARD report for further discussion on the impact analysis.



Table 1 Comparison of Aquatic Resources Delineation (ARD) Results and Estimated Impacts to Aquatic Resources

	2024 SWCA ARD Report	2023 SWCA Impact Assessment	2025 Rincon ARD Report
Study/Review Area	3,418 acres (Review Area)	3,418 acres (Review Area)	3,418 acres (Study Area)
Total Acreage of Non- Wetland Waters of the State (RWQCB jurisdiction)	643.4 acres within the entire 3,418-acre Review Area	643.4 acres within the entire 3,418-acre Review Area	110.3 acres within the four solar arrays and gen-tie corridor (a 1,544.8-acre area in which focused field surveys were conducted)
Total Acreage of FGC 1600 Resources (CDFW jurisdiction)	643.4 acres within the entire 3,418-acre Review Area	643.4 acres within the entire 3,418-acre Review Area	181.3 acres within the four solar arrays and gen-tie corridor (a 1,544.8-acre area in which focused field surveys were conducted)
Total Project Site Acreage	2,075 acres	2,075 acres	2,098 acres
Total Acreage of Impacts to Non-Wetland Waters of the State (RWQCB jurisdiction)	373.5 acres	373.5 acres	149.09 acres
Total Acreage of Impacts to FGC 1600 Resources (CDFW jurisdiction)	373.5 acres	373.5 acres	243.02 acres

Thank you for the opportunity to assist in your important project. Please contact us at any time with any questions.

Sincerely,

Rincon Consultants, Inc.

Thea Benson Senior Biologist

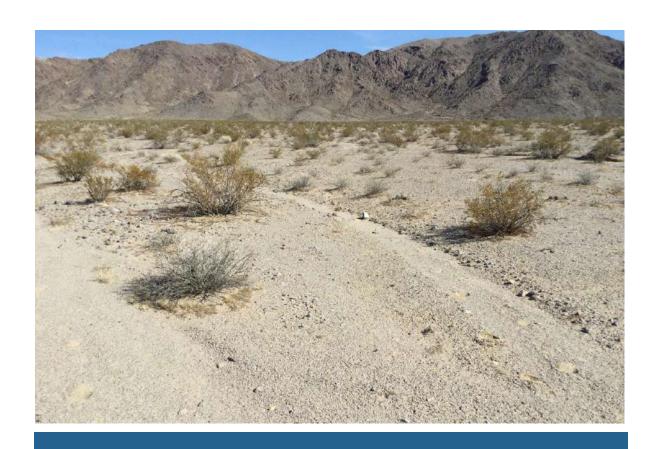
tbenson@rinconconsultants.com

May Lau

Principal Regulatory Specialist mlau@rinconconsultants.com

Attachments

Attachment 1 Aquatic Resources Delineation for the Soda Mountain Solar Project (Rincon 2025)



Soda Mountain Solar Project

Aquatic Resources Delineation

prepared for

Soda Mountain Solar, LLC 110 Edison Place, Suite 312 Newark, New Jersey 07102

prepared by

Rincon Consultants, Inc. 250 1st Street Los Angeles, California 90012

July 2025



Table of Contents

1	Introd	duction		3
	1.1	Study A	rea Location	3
	1.2	Project	Description	4
2	Meth	odology .		5
	2.1	Literatu	ıre Review	5
	2.2	Field Su	ırvey	5
		2.2.1	Wetland Waters of the U.S.	6
		2.2.2	Non-Wetland Waters of the U.S.	6
		2.2.3	Wetland Waters of the State	6
		2.2.4	Non-wetland Waters of the State	7
		2.2.5	CDFW Streambed	7
	2.3	Data Pr	ocessing	7
3	Existi	ng Site Co	onditions	9
	3.1	Climate	e, Topography, and Land Use	9
	3.2	Hydrolo	ogy	9
	3.3	Soils		10
	3.4	Vegeta	tion Communities and Land Cover Types	10
4	Jurisd	ictional A	Assessment	12
	4.1	Wetlan	d Waters	15
		4.1.1	Wetland Waters of the U.S	15
		4.1.2	Wetland Waters of the State	15
	4.2	Non-W	etland Waters	15
		4.2.1	Waters of the U.S	15
		4.2.2	Waters of the State	16
		4.2.3	Streambeds	16
	4.3	Non-Ju	risdictional Features	16
5	Impa	ct Assessr	ment	18
6	Discu	ssion		20
7	Limita	ations, As	sumptions, and Use Reliance	21
8	Refer	ences		22
Ta	bles			
Tak	ole 1	Summa	ry of Survey Methodology within the Study Area	7
Tak	ole 2	Major (Culverts along Interstate 15 (SWCA 2024)	10
Tak	ole 3	Soil Ma	p Units in the Study Area	10
Tak	ole 4	Summa	rry of Vegetation Communities and Land Cover Types (SWCA 2025)	11

Table 5	Summary of Delineated Aquatic Resources	.13
	Summary of Extrapolated Aquatic Resource Areas in the Project Area	
Table 7	Summary of Estimated Jurisdictional Aquatic Resource Impacts within the Project Site	18

Appendices

Appendix A Regulatory Framework

Appendix B Site Photographs

Appendix C Completed Datasheets

Appendix D Figures

1 Introduction

Rincon Consultants, Inc. (Rincon) conducted an aquatic resources delineation for the Soda Mountain Solar Project (project), located on land managed by the Bureau of Land Management (BLM) within unincorporated San Bernardino County, California. The delineation was conducted to determine the location and extent of waters and wetlands within a defined Study Area, inclusive of the proposed project site, that are potentially subject to the jurisdiction of the United States Army Corps of Engineers (USACE), Lahontan Regional Water Quality Control Board (RWQCB), and California Department of Fish and Game (CDFW). For the purposes of this assessment, the Study Area includes a 3,418-acre area encompassing an approximately 2,670-acre proposed project site (inclusive of the four solar arrays, detention basins, substation pads, laydown yards and equipment storage areas, gen-tie corridor, access roads, and temporary work areas), and a 250-foot buffer.

Any proposed project impacts in areas identified as jurisdictional waters or wetlands may be subject to the permit requirements of the USACE under Section 404 of the Clean Water Act (CWA), RWQCB under Section 401 of the CWA and/or Porter-Cologne Water Quality Act, and CDFW pursuant to Section 1600 et. seq. of the California Fish and Game Code. However, the authority of the California Energy Commission (CEC), pursuant to Government Code amendments, enacted with the passage of Assembly Bill 205 in 2022, may supersede the CDFW's authority over a proposed project. Actual jurisdictional areas are determined by the state and federal authorities at the time that jurisdictional determinations or permits are requested.

This report was prepared in accordance to the USACE's Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (USACE 2017).

1.1 Study Area Location

The Study Area is located approximately 10 miles southwest of the unincorporated town of Baker, in San Bernardino County, California (Figure 1, Appendix D). The Study Area is located between Baker and Barstow, and can be reached by traveling on Interstate 15 and exiting Rasor Road at the Rasor Road Services Shell Oil gas station (66150 Rasor Road, Baker, California 92309), and then following the unpaved portion of Rasor Road onto the project site.

The Study Area covers approximately 3,418 acres and is positioned on BLM public lands within the *San Bernardino, California* U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle (Figure 2, Appendix D). The Public Land Survey System depicts the Study Area in Township 12N, Range 7E, Sections 1 and 11-14; Township 12N, Range 8E, Sections 6, 7 and 18; Township 13N, Range 8E, Sections 29-32, San Bernardino Meridian (Earth Point 2025). The Study Area is centered at approximately 35.148097°, -116.183703° in the alluvial valley dividing the northern and southern portions of the Soda Mountains in the Mojave Desert and extends approximately 8.5 miles along the southeast side of Interstate 15 (Mojave Freeway).

The Study Area occurs on the following San Bernardino County Assessor's Parcel Numbers (APN): 0543-24-117-0000, 0543-24-119-0000, 0543-20-107-0000, 0543-25-101-0000, 0543-20-110-0000, 0543-21-118-0000 (Figure 3, Appendix D).

1.2 Project Description

The project includes construction, operation, maintenance, and eventual decommissioning of a 300-megawatt (MW) photovoltaic (PV) solar facility. The project would operate 24 hours per day year-round and would generate electricity during daylight hours when the sun is shining. The project would generate and deliver solar-generated power to the regional electrical grid through an interconnection with the existing Mead-Adelanto 500-kV transmission line operated by the Los Angeles Department of Water and Power. The approximate disturbance areas within the Study Area include the following project components, which will result in a total 2,098-acre impact area, inclusive of permanent and temporary impacts (illustrated in Figure 5, Appendix D):

- 1. The solar plant site (i.e., all facilities that create a footprint in and around the field of solar panels, including the solar field consisting of solar power arrays identified as the East Array and South Arrays 1, 2, and 3), operation and maintenance (O&M) buildings and structures, stormwater infrastructure, and related infrastructure and improvements.
- 2. A substation and switchyard for interconnection to the existing transmission system, located within the gen-tie corridor.
- 3. Approximately 1-mile 500-kilovolt (kV) gen-tie line connecting project substation, switchyard, and 500-kV Mead-Adelanto line.
- 4. Approximately 300 MW/1,200 MW-hour of battery energy storage system (BESS) across 18 acres.

Project associated Mitigation Measures will also be implemented, as necessary, throughout the life of the project. Specifically, with implementation of MM BIO-3, on-site grading and associated ground disturbance would be significantly reduced under the solar field. The reduction in on-site grading and associated ground disturbance would reduce the potential for the project to result in direct, indirect or cumulative impacts related to water quality standards, waste discharge requirements, surface and groundwater quality degradation and the alteration of onsite drainage patterns.

Please refer to Figure 4 (Appendix D) for a general illustration of the project components within the Study Area and Figure 5 for temporary and permanent impact areas.

2 Methodology

A literature review and field surveys were conducted to identify, describe, and map potential jurisdictional features within the defined Study Area. The literature review and field surveys were conducted in accordance with USACE, RWQCB, and CDFW procedures as outlined below and further discussed in Appendix A.

2.1 Literature Review

Prior to the field survey, Rincon reviewed aerial imagery (Google Earth Pro 2025) of the Study Area, the *San Bernardino, California* USGS 7.5-minute topographic quadrangle (USGS 2025a), the Web Soil Survey (United States Department of Agriculture, Natural Resources Conservation Service [USDA, NRCS] 2025a), the National Hydric Soils List by State: California (USDA, NRCS 2025b), and the U.S. Climate Data for weather history (U.S. Climate Data 2025). Additionally, the National Wetlands Inventory (NWI; United States Fish and Wildlife Service [USFWS] 2025) and the National Hydrography Dataset (NHD; USGS 2025b) were reviewed. These resources were reviewed to better characterize the site and its surroundings from a hydrologic, geologic, and topographic perspective, and to determine if any soil units mapped in the Study Area are classified as hydric.

The literature review also included the review of two previously prepared reports completed for the project by SWCA: *Aquatic Resources Delineation Report for the Soda Mountain Solar Project*, dated June 2024 (ARDR; SWCA 2024) and *Soda Mountain Solar Project Biological Resources Technical Report*, dated January 2025 (BRTR; SWCA 2025). These reports provided an evaluation of biological and aquatic resources within the same 3,418-acre Study Area.

2.2 Field Survey

Field surveys were completed by Artemis Environmental biologists between March 24 and March 28, 2025. The surveys were completed on-foot to evaluate the site for wetland and non-wetland jurisdictional features. Current federal and State policies, methods, and guidelines were used to identify and delineate potential jurisdictional features and are summarized in the subsections below and in detail in Appendix A. The field surveys consisted of surveys within 50 randomly located 100-meter by 100-meter square plots to capture representative data on aquatic resources within the 2 project area, contained in the overall Study Area, with particular focus on five distinct project areas, including the four solar arrays (East Array, South Arrays 1, 2, and 3) and the gen-tie corridor (which includes the proposed substation). The field survey area, therefore included the entire approximately 38.87-acre gen-tie corridor and approximately 123.55 acres within the 50 Representative Sample Plots within and adjacent to the four proposed solar arrays. Data collection was focused on potential jurisdictional features and representative sample points were chosen in areas that best represented the conditions of such jurisdictional features within the survey plots. Sample points were not conducted in areas with an obvious prevalence of upland vegetation or in areas where the landform would not support wetland features.

The extent of potential jurisdictional features, locations of culverts, and sample points were collected in the field using a Trimble Global Positioning System unit with sub-meter accuracy and were subsequently transferred to Rincon's Geographic Information System (GIS) software program (i.e., ArcGIS Pro) to further analyze aquatic features in the entire Study Area and produce figures provided

in this document. At each sample point, and within the entire 100-square-meter sample plots, plant species were documented and previously mapped vegetation communities, identified in the SWCA BRTR (SWCA 2025) were field-checked for accuracy. Photographs of potential jurisdictional features and the surrounding areas were captured. Photographs are provided as Appendix C.

2.2.1 Wetland Waters of the U.S.

Wetland waters of the U.S., within USACE jurisdiction, were determined when all three wetland parameters (hydrophytic vegetation, hydric soils, and hydrology) were present and if there was a continuous surface connection between the potential wetland and a navigable water body or relatively permanent tributary (Environmental Protection Agency [EPA] 2023). Potential wetland features were evaluated for the presence of wetland indicators, specifically, hydrophytic vegetation, hydric soils, and wetland hydrology, according to routine delineation procedure within the Wetlands Delineation Manual (USACE 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (USACE 2008a). The USACE Arid West 2022 Regional Wetland Plant List, which was the most current USACE plant list at the time of the field delineation, was used to determine the indicator status of the examined vegetation by the following indicator status categories: Upland (UPL), Facultative Upland (FACU), Facultative (FAC), Facultative Wetland (FACW), and Obligate Wetland (OBL; Lichvar et al. 2020). At each sample point, if wetland characteristics were identified, a soil pit was to be dug approximately 12 to 18 inches below ground to further analyze soil conditions and determine if hydric soils were present and a USACE Wetland Datasheet was used to document site conditions. However, no wetland indicators were identified in the Study Area during the field surveys; therefore, no soil pits or wetland sample points were collected.

2.2.2 Non-Wetland Waters of the U.S.

The lateral limits of USACE jurisdiction for Non-wetland Waters of the U.S. were determined by the presence of physical characteristics indicative of the OHWM. The OHWM was identified in accordance with the applicable Code of Federal Regulations (CFR) sections (33 CFR 328.3 and 33 CFR 328.4) and Regulatory Guidance Letter 05-05 (USACE 2005), as well as in reference to various relevant technical publications, including, but not limited to, A *Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b). In areas where drainage features were present, sample points were established to define an ordinary high water mark (OHWM) and Rapid OHWM Field Identification Datasheets (USACE 2025) were used to document indicators of an OHWM, if present. Completed datasheets are provided as Appendix B.

Additionally, Rincon evaluated sources of water, streamflow period, connections to Navigable Waters or Traditional Navigable Waters (TNWs), and other factors that affect whether waters qualify as non-wetland waters of the U.S. under current USACE regulations (33 CFR 328.3). The regulations were also reviewed in the determination of non-jurisdictional features (e.g., roadway ditches excavated in uplands). A more detailed regulatory definition of USACE jurisdiction is provided in Attachment A.

2.2.3 Wetland Waters of the State

Potential State wetland features were evaluated pursuant to the State Water Resources Control Board (SWRCB) State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State, which went into effect May 28, 2020 (SWRCB 2021). These procedures acknowledge that wetland waters of the state should be delineated using the standard USACE wetland delineation procedures, taking into consideration that the methods shall be modified only to allow for the fact that a lack of vegetation does not preclude an area from meeting the definition of a wetland.

2.2.4 Non-wetland Waters of the State

The lateral limits of non-wetland Waters of the State, as defined under the Porter-Cologne Water Quality Control Act, were determined by the presence of physical characteristics indicative of the OHWM, based on current interpretation of jurisdiction by the Lahontan RWQCB.

2.2.5 CDFW Streambed

The extent of potential streambeds, streambanks, and riparian habitat subject to CDFW jurisdiction under Section 1600 et seq. of the CFGC was delineated by reviewing the topography and morphology of potentially jurisdictional features to determine the top of bank for stream features, including low alluvial terraces of the active floodplain where applicable in larger washes, and the outer limit of associated riparian vegetation, where present.

2.3 Data Processing

Because each of the proposed solar arrays occupies a location on the landscape with soils, slope, and hydrology that may differ from the other arrays, the acreage of potential jurisdictional waters was estimated separately for each array using a stratified random sampling design. Each solar array was subsampled using 100m X 100m (2.471 acre) sample plots placed randomly within the array using tools in ArcGIS. The number of sample plots placed within or adjacent to each solar array was proportional to the total area of the array so that the total area of all sample plots was approximately 8 percent of the total area of the array. The size of each solar array and the total number of sample plots within it is presented in Table 1. Note that some of the Sample Plots were taken adjacent to the array in areas where defined drainages were present. A total of 37.931 acres of Sample Plots were taken in the entire Study Area. Location of sample plots are illustrated in Figure 4 (Appendix D).

Table 1 Summary of Survey Methodology within the Study Area

Project Component ³	Total Acres	Number of Sample Plots ¹	Total Sample Plot Acreage (survey area)	Percentage of Project Component Field Delineated
East Array	341.668	11	27.181	8%
Solar Array 1	205.583	5	17.297	8%
South Array 2	632.041	17	51.891	8%
South Array 3	326.641	7	27.181	8%
Gen-Tie Corridor	38.87	0	N/A ²	100%

^{1:} Sample Plots are 100x100 square meters (2.471 acres), note that some sample plots occurred partially within the array or adjacent.

All potential jurisdictional waters features within each sample plot were mapped in the field using submeter GPS units by walking the centerlines and/or boundaries of each feature. Following post field GIS processing of the GPS data, the total area of waters of the State and streambed, and the total number of linear feet of ephemeral streams were calculated for each sample plot. The mean acreage of waters falling under both RWQCB and CDFW jurisdictions and the mean linear feet of streams were calculated across all of the plots of each solar array, as well as the sample standard deviation for each mean value. Confidence intervals for each estimate were calculated using the sample sizes and standard deviations using the CONFIDENCE.T function in Microsoft Excel, which uses the Student's T

^{2:} No Sample Plots were taken in the gen-tie corridor, however the entire corridor (approximately 37.931 acres) were surveyed.

^{3:} Sample Points were taken within or adjacent to the East Array, Solar Array 1, Solar Array 2, and Solar Array 3.

distribution. Finally, the acreages, linear feet and associated confidence intervals measured in the sample plots were extrapolated to the total acreage of each solar array to derive estimates for RWQCB-jurisdictional acreage, CDFW-jurisdictional acreage, and the linear feet of ephemeral streams within each solar array and the confidence intervals around each estimate.

Sample plots were not established in the gen-tie corridor, as the entire proposed project component within the Study Area was delineated in the field.

3 Existing Site Conditions

3.1 Climate, Topography, and Land Use

The Study Area is located within the Mojave Desert, characterized by hot summer temperatures and cool winters ranging from 108°F in the summer months to 33°F in the winter months, with an average of 3.72 inches of annual rainfall (U.S. Climate Data 2025).

The Study Area occurs within the desert flow surrounded by the Soda Mountains. The Study Area is located within an historical alluvial fan system originating from the cleavages of the Soda Mountains, located to the northwest of the Study Area. Several alluvial fans have deposited sediment along the desert valley floor, which is primarily flat, sloping from the northwest to the southeast across the fan system. The Soda Mountains immediately northwest of the Study Area extend to approximately 3,425 feet above sea level and meet the desert valley floor at the Study Area with elevations ranging between approximately 1,275 to 1,450 feet above mean sea level. The alluvial fan system continues to support small ephemeral drainages that convey stormwater from the Soda Mountains into the valley floor.

The Study Area consists of open space managed by BLM. Rasor Road provides access into the project site, which is a BLM ground transportation feature (Road AC8828). Although the project site is not within a designated Off-Highway Vehicle (OHV) Area, vehicle tracks and disturbance are prevalent across the Study Area in multiple areas, frequently coinciding with drainage areas.

3.2 Hydrology

The Study Area is located within the Soda Lake Hydrologic Subarea (628.82) of the greater Mojave Hydrological Unit (628.00) of the South Lahontan Hydrologic Basin and spans two watersheds: (HUC 180902082502) and (HUC 180902082504) of the greater Mojave Watershed (HUC 18090208). The Mojave Hydrological Unit (HU; 628.00). Surface water and the drainage within the Study Area flow southeast, terminating at Soda Dry Lake. Soda Dry Lake is a playa in the Mojave Desert that periodically holds water after rainfall and comprises salt and alkali deposits. Soda Dry Lake is not defined as, nor drains to, waters of the United States (WOUS) or Traditional Navigable Waters (TNW). A small portion of the southwestern corner of the Study Area is part of the Cronis watershed that ultimately drains to Cronise Valley and East Cronise Lake, also a dry lakebed that does not drain to a WOUS or TNWs. Please refer Figure 5(Appendix D) for mapped regional watershed boundaries.

The USFWS NWI identifies several Riverine (R4SBJ: Riverine, Intermittent, Streambed, Intermittently Flooded [USFWS 2025]) features distributed across the Study Area, originating from the alluvial fan system from northwest to southeast. These drainage features ultimately terminate east of the Study Area within the desert valley floor. The general locations of the features mapped by NWI appear to be correct, however, these drainage features are likely ephemeral, supporting water flow only during or immediately after rainfall, and may consist of paleo channels that no longer actively support water flows. Please refer to Figure 6 (Appendix D) for mapped NWI aquatic resources.

USGS NHD identifies the potential location and extent of watercourses and streams, drainage patterns, topographic models, and other hydrologic information, similarly mapped to NWI. Drainage features identified by NHD include additional drainage features across the Study Area from northwest to southeast, merging into a larger wash to the east of the Study Area that directs flow to the south, out of the Study Area. These drainages are categorized by the NHD as having an ephemeral stream flow.

The NHD also identifies stream flow to the northwest along Interstate 15, indicating that the Interstate is a barrier to much of the northern rainfall flows and directs water along the Interstate to the north. Refer to Figure 6 (Appendix D) for mapped NHD aquatic resources.

A series of culverts along the Interstate assist in transporting surface water flows under the Interstate and into the Study Area. As addressed in the 2024 ARDR (SWCA 2024), four large culverts were identified along Interstate 15 that provide water passage of upstream water from the north side of the highway to the south side, funneling water into a ditch feature. These culverts/ditches are summarized in Table 2 below, and illustrated in Figure 6 (Appendix D). Other highway water chutes/flumes also occur along Interstate 15 that direct water flows off the highway from the north to the south. The locations of the culverts and the chutes/flumes were used to assist in the evaluation of jurisdictional aquatic resources.

Table 2 Major Culverts along Interstate 15 (SWCA 2024)

Ditch/Culvert	Location (latitude, longitude)	Culvert Structure Width (feet)	Distance Between Culverts (miles)
Unnamed Ditch	35.142620°, -116.203046°	8.0	1.2
Marl Ditch	35.156067°, -116.190648°	17.5	0.7
Opah Ditch	35.164668°, -116.182698°	77.0	1.2
Turtle Ditch	35.179039°, -116.169775°	17.5	0.5

The Study Area occurs within a Federal Emergency Management Agency (FEMA) Flood Hazard Area Zone D, which represents areas with possible but undetermined flood hazards (FEMA 2024).

3.3 Soils

The USDA, NRCS Web Soil Survey depicts four soil map units within the Study Area, summarized in Table 3, and further discussed in the 2024 ARDR (SWCA 2024). In the review of the USDA, NRCS (2025), no mapped soil units were identified as hydric.

Table 3 Soil Map Units in the Study Area

Soil Unit Name	Hydric
Tecopa-Rock outcrop-Lithic Torriorthents (s1126) (well-drained; calcareous; loamy)	No
Rock outcrop (s1131) (somewhat excessively drained; calcareous; loamy)	No
Rositas-Carrizo (s1137) (somewhat excessively drained)	No
RillitoGunsight (s1140) (somewhat excessively drained; loamy)	No

3.4 Vegetation Communities and Land Cover Types

Vegetation communities in the project site (including the locations of the four proposed solar arrays and the gen-tie corridor) were previously analyzed in the 2025 BRTR (SWCA 2025). Five vegetation communities were identified within the project site as defined in *A Manual of California Vegetation Online* (CNPS 2023), and included the following: Rigid Spineflower – Hairy Desert Sunflower (*Chorizanthe rigida* – *Geraea canescens* Desert Pavement Sparsely Vegetated Alliance), California Joint Fir – Longleaf Joint-fir Scrub (*Ephedra californica* – *Ephedra trifurca* Shrubland Alliance), Cheesebush – Sweetbush Scrub (*Ambrosia salsola* – *Bebbia juncea* Shrubland Alliance), Creosote Bush Scrub (*Larrea tridentata* – White Bursage Scrub (*Larrea tridentata* –

Ambrosia salsola Shrubland Alliance) which was the most dominant over the entire Study Area. Additionally, maintained dirt roads and other disturbed sites were mapped as Developed/Disturbed landcover type.

Of these vegetation communities, two sensitive associations were identified in the project site: Chorizanthe rigida — Geraea canescens Desert Pavement Association and Ephedra californica — Ambrosia salsola Association (CDFW 2025). No Special Vegetation Features identified in the Desert Renewable Energy Conservation Plan (DRECP) occur within the Study Area. Table 4 provides a summary of vegetation communities and land cover types within the project site, which are further discussed in the 2025 BRTR (SWCA 2024).

Table 4 Summary of Vegetation Communities and Land Cover Types (SWCA 2025)

Туре	Global Rank ¹	State Rank ²
Creosote Bush – White Bursage Scrub <i>Larrea tridentata</i> – <i>Ambrosia dumosa</i> Shrubland Alliance	G5	S5
Creosote Bush Scrub <i>Larrea tridentata</i> Shrubland Alliance	G5	S5
Rigid Spineflower – Hairy Desert Sunflower Chorizanthe rigida – Geraea canescens Desert Pavement Sparsely Vegetated Alliance, (Chorizanthe rigida – Geraea canescens Desert Pavement Association)	G4	S4 (Sensitive Association)
Cheesebush – Sweetbush Scrub <i>Ambrosia salsola –</i> <i>Bebbia juncea</i> Shrubland Alliance	G4	S4
California Joint Fir – Longleaf Joint-fir <i>Ephedra californica</i> – <i>Ephedra trifurca</i> Shrubland Alliance, (<i>Ephedra californica</i> – <i>Ambrosia salsola</i> Association)	G5	S4 (Sensitive Association)
Developed/Disturbed	N/A	N/A

Notes: Data included in this table references information from SWCA 2025.

¹ Global Rank (NatureServe 2024): G4 = Over 100 viable occurrences worldwide/statewide and/or more than 32,000 acres G5 = Demonstrably secure because of its worldwide/statewide abundance

² State Rank (NatureServe 2024): S4 = Over 100 viable occurrences worldwide/statewide and/or more than 32,000 acres S5 = Demonstrably secure because of its worldwide/statewide abundance

³ Project site totals approximately 2,670 acres.

4 Jurisdictional Assessment

No areas potentially meeting federal or state wetland definitions occur within the Study Area based on the literature and desktop review and field survey effort. Non-wetland water resources were determined to occur within the Study Area that meet the current state definitions of waters of the State subject to RWQCB under the Porter-Cologne Act, and CDFW jurisdiction under Section 1600 et seq. of the CFGC. The non-wetland waters were not identified as waters of the U.S. under the most current federal definitions of waters of the U.S. Further discussion on wetland and non-wetland water resources identified in the Study Area and the potential jurisdiction of the resources is provided below.

The field survey effort completed March 21-25, 2025 collected data to assist in determining the jurisdictional limits of regulatory agencies in 50 Representative Sample Plots of the four proposed solar array locations, along the proposed gen-tie corridor, and in select locations throughout the remainder of the Study Area located adjacent to the solar arrays. Within each solar array, the mean acreage of waters falling under both jurisdictions (CDFW and RWQCB) and the mean linear feet of the streams were calculated across all the plots of each solar array, as well as the sample standard deviation for each mean value. These acreages/linear feet and associated confidence interval measures in the sample plots were extrapolated to the total acreage of each solar array to derive estimates of CDFW and RWQCB-jurisdictional acreage and linear feet. For the gen-tie corridor, the field survey effort was able to delineate the entire corridor.

As illustrated in Figure 6 (Appendix D), there are numerous aquatic resources mapped in the NHD/NWI that correspond with the larger drainage features and few distinct tributaries. Similarly, the 2024 ARDR (SWCA 2024) identify primarily the larger drainage features and tributaries. However, the drainage features identified in the March 2025 field survey effort indicate that the Study Area consists of several additional small ephemeral drainage features, indicative of the alluvial landform encompassing the entire Study Area. The differences between the drainage features identified in the Representative Sample Plots captured during the March 2025 field surveys compared to the NHD/NWI mapped aquatic resources are a result of the changing flow patterns from year to year, sedimentation over time, variability in widths of stream complexes, developmental impacts from Interstate 15 and dirt roads occurring in the Study Area, and due to the GPS accuracy conducted as part of this assessment compared to the remote sensing techniques used to inform the NHD/NWI maps and the machine learning and assisted modeling completed by SWCA in 2024. Therefore, the NHD/NWI mapped aquatic resources were not used in the calculations that estimated jurisdictional limits within the Study Area.

Table 5 summarizes the total acreage of jurisdictional aquatic resources within the Study Area per regulatory agency, based on jurisdictional limits defined by representative field survey data. The field data was used to further calculate estimated acreage of each jurisdiction potentially occurring within the four solar array locations and the gen-tie corridor (1,544.8 acre project area), exclusively, summarized in Table 6. Figures 9-31 (Appendix D) depict the location and extent of potential jurisdiction documented in the 50 Representative Sample Plots and within the gen-tie corridor documented during the March 21-25, 2025 field survey effort.

Table 5 Summary of Delineated Aquatic Resources

and a community of a							
sdiction ¹							
				Confidence	Confidence	Confidence	Confidence
Number of	Project Area	Average RWQCB		Interval	Interval	Interval	Interval
Sample Plots	(acres)	Area (acres)	Deviation (acres)	(99%)	(95%)	(90%)	(75%)
11	341.668	0.204	0.145	0.138	0.097	0.079	0.053
7	205.583	0.307	0.253	0.355	0.234	0.186	0.122
21	632.041	0.168	0.101	0.063	0.046	0.038	0.026
11	326.641	0.089	0.094	0.090	0.063	0.052	0.035
N/A	38.87	1.72	N/A	N/A	N/A	N/A	N/A
iction ²							
Number of Sample Plots	Project Area (acres)	Average CDFW Area (acres)	Standard Deviation (acres)	Confidence Interval (99%)	Confidence Interval (95%)	Confidence Interval (90%)	Confidence Interval (75%)
11	341.668	0.313	0.177	0.170	0.119	0.097	0.065
7	205.583	0.490	0.293	0.411	0.271	0.215	0.141
21	632.041	0.280	0.147	0.091	0.067	0.055	0.038
11	326.641	0.170	0.190	0.181	0.127	0.104	0.070
N/A	38.87	3.18	N/A	N/A	N/A	N/A	N/A
				Confidence	Confidence	Confidence	Confidence
Number of	Project Area	Average Length	Standard	Interval	Interval	Interval	Interval
Sample Plots	(acres)	(feet)	Deviation (feet)	(99%)	(95%)	(90%)	(75%)
11	341.668	3,323.2	1,114.9	1,065.4	749.0	609.3	410.5
7	205.583	2,576.0	1,261.1	1,767.1	1,166.3	926.2	606.9
21	632.041	2,079.4	858.5	533.1	390.8	323.1	222.0
11	326.641	857.7	662.3	632.8	444.9	361.9	243.9
N/A	38.87	15,831	N/A	N/A	N/A	N/A	N/A
	Number of Sample Plots 11 7 21 11 N/A ction² Number of Sample Plots 11 7 21 11 N/A Number of Sample Plots 11 7 21 11 7 21 11 17 21 11 1	Number of Sample Plots Project Area (acres) 11 341.668 7 205.583 21 632.041 11 326.641 N/A 38.87 Ction ² Number of Sample Plots Project Area (acres) 11 341.668 7 205.583 21 632.041 11 326.641 N/A 38.87 Number of Sample Plots (acres) 11 341.668 7 205.583 21 632.041 11 326.641	Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) 11 341.668 0.204 7 205.583 0.307 21 632.041 0.168 11 326.641 0.089 N/A 38.87 1.72 ction² Number of Sample Plots Project Area (acres) Average CDFW Area (acres) 11 341.668 0.313 7 205.583 0.490 21 632.041 0.280 11 326.641 0.170 N/A 38.87 3.18 Number of Sample Plots Project Area (acres) Average Length (feet) 11 341.668 3,323.2 7 205.583 2,576.0 21 632.041 2,079.4 11 326.641 857.7	Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) 11 341.668 0.204 0.145 7 205.583 0.307 0.253 21 632.041 0.168 0.101 11 326.641 0.089 0.094 N/A 38.87 1.72 N/A Ction ² Number of Sample Plots Project Area (acres) Average CDFW Area (acres) Standard Deviation (acres) 11 341.668 0.313 0.177 7 205.583 0.490 0.293 21 632.041 0.280 0.147 11 326.641 0.170 0.190 N/A 38.87 3.18 N/A Number of Sample Plots (acres) Average Length (feet) Project Area (acres) (feet) 201 Average Length (feet) 202 203 204 205 207 207 207 207 207 207 207	Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) Confidence Interval (99%) 11 341.668 0.204 0.145 0.138 7 205.583 0.307 0.253 0.355 21 632.041 0.168 0.101 0.063 11 326.641 0.089 0.094 0.090 N/A 38.87 1.72 N/A N/A Confidence Interval (acres) Number of Sample Plots Project Area (acres) Average CDFW Area (acres) Standard Deviation (acres) Confidence Interval (99%) 11 341.668 0.313 0.177 0.170 7 205.583 0.490 0.293 0.411 11 326.641 0.170 0.190 0.181 N/A 38.87 3.18 N/A N/A N/A 341.668 3,323.2 1,114.9 1,065.4 Number of Sample Plots Project Area (acres) Average Length (feet) Deviation (feet) (99%) <td>Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) Confidence Interval (99%) (95%) Confidence Interval (99%) (95%) 11 341.668 0.204 0.145 0.138 0.097 7 205.583 0.307 0.253 0.355 0.234 21 632.041 0.168 0.101 0.063 0.046 11 326.641 0.089 0.094 0.090 0.063 N/A 38.87 1.72 N/A N/A N/A Confidence Interval (acres) Average CDFW Area (acres) Standard Deviation (acres) Confidence Interval (99%) (95%) 11 341.668 0.313 0.177 0.170 0.119 7 205.583 0.490 0.293 0.411 0.271 21 632.041 0.280 0.147 0.091 0.067 11 326.641 0.170 0.190 0.181 0.127 N/A 38.87 3.18 N/A N/A N/A</td> <td>Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) Confidence Interval (99%) Confidence (99%) C</td>	Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) Confidence Interval (99%) (95%) Confidence Interval (99%) (95%) 11 341.668 0.204 0.145 0.138 0.097 7 205.583 0.307 0.253 0.355 0.234 21 632.041 0.168 0.101 0.063 0.046 11 326.641 0.089 0.094 0.090 0.063 N/A 38.87 1.72 N/A N/A N/A Confidence Interval (acres) Average CDFW Area (acres) Standard Deviation (acres) Confidence Interval (99%) (95%) 11 341.668 0.313 0.177 0.170 0.119 7 205.583 0.490 0.293 0.411 0.271 21 632.041 0.280 0.147 0.091 0.067 11 326.641 0.170 0.190 0.181 0.127 N/A 38.87 3.18 N/A N/A N/A	Number of Sample Plots Project Area (acres) Average RWQCB Area (acres) Standard Deviation (acres) Confidence Interval (99%) Confidence (99%) C

Notes:

- 1 RWQCB jurisdiction calculated by the extent of the OHWM retained from Sample Plots. No riparian habitat identified within the Study Area.
- 2 CDFW jurisdiction calculated by the extent of the top of bank within the streambed retained from Sample Plots. No riparian habitat identified in the Study Area.
- 3 The full extent of the Gen-Tie Corridor was surveyed. No Sample Plots were used. No Standard Deviation or Confidence Intervals were calculated.

Table 6 Summary of Extrapolated Aquatic Resource Areas in the Project Area

Estimated RWQCB Jurisdiction								
	Estimated	RWQCB	RWQCB		Length	Length		
	RWQCB	Confidence	Confidence		Confidence	Confidence		
	Area	Interval	Interval	Estimated	Interval	Interval		
Project Component	(acres)	(85%) ¹	(90%) ¹	Length (feet)	(95%)	(90%)		
East Array	28.240	13.454	10.944	459,500	103,566.6	8,4245.4		
South Array 1	25.573	19.479	15.469	214,316	97,033.3	7,7057.6		
South Array 2	43.060	11.758	9.722	531,859	99,958.1	8,2647.4		
South Array 3	11.734	8.376	6.813	113,380	58,812.9	4,7840.9		
Gen-Tie Corridor ²	1.72	N/A	N/A	15,831	N/A	N/A		
TOTAL	110.327	53.067	42.948	1,334,886	359,370.9	291,791.3		

Estimated CDFW Jurisdiction								
	Estimated	CDFW	CDFW		Length	Length		
	CDFW	Confidence	Confidence		Confidence	Confidence		
	Area	Interval	Interval	Estimated	Interval	Interval		
Project Component	(acres)	(85%) ¹	(90%) ¹	Length (feet)	(95%)	(90%)		
East Array	43.255	16.480	13.405	459,500.4	103,566.6	8,4245.4		
South Array 1	40.746	22.576	17.928	214,316.8	97,033.3	7,7057.6		
South Array 2	71.650	17.137	14.170	531,859.5	99,958.1	8,2647.4		
South Array 3	22.508	16.836	13.695	113,380.4	58,812.9	4,7840.9		
Gen-Tie Corridor ²	3.18	N/A	N/A	15,831	N/A	N/A		
TOTAL	181.339	73.029	59.198	1,334,886	359,370.9	291,791.3		

Notes:

Please refer to Appendix A for further information on the regulatory framework and Section 2, above, discussing the survey methodologies, which were both used to evaluate wetland waters and non-wetland waters potentially subject to the purview of USACE, RWQCB, and CDFW.

^{1 -} The confidence limits were calculated using the CONFIDENCE.T function in Excel which uses the Students T distribution formula that is more appropriate for sample sizes smaller than 30. The Confidence Interval (95%) and Confidence Interval (90%) fields should be reported as plus or minus the estimate, for example "28.240 +- 13.454 acres" 2 – The entire Gen-Tie Corridor was surveyed in the field and therefore no extrapolation or confidence intervals were

^{2 –} The entire Gen-Tie Corridor was surveyed in the field and therefore no extrapolation or confidence intervals were calculated.

^{3 –} Project Area = 1,541.7 acres, which includes the four solar array locations and the gen-tie corridor.

4.1 Wetland Waters

4.1.1 Wetland Waters of the U.S.

No wetlands that meet the current USACE definition for wetland waters of the U.S. were determined to occur within the Study Area. No areas of inundation that supported the three defining characteristics of federal wetlands (hydric soils, hydrophytic vegetation, and wetland hydrology) were identified during previous field survey efforts in May 22–26, June 12–16, and September 6–8, 2023 as noted in SWCA Report (SWCA 2024). The literature and database review also indicates that the region in which the Study Area is situated is in a low-lying alluvial fan consisting of dry, gravelly soils with high levels of calcium carbonate (lime). These types of soils, in combination with high desert winds in the region, can create a natural cement-like material which increases the soil's impermeability, affecting soil structure, hydrology, vegetation patterns, and other processes, thus further supporting the lack of sustained wetland aquatic resources occurring in the Study Area.

No wetland waters of the U.S., under the purview of the USACE, were determined to occur within the Study Area.

4.1.2 Wetland Waters of the State

No wetland waters that meet the current RWQCB definition for wetland waters of the state were determined to occur within the Study Area. During the March 2025 field survey, no areas of inundation that supported continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both were observed; no anaerobic conditions in the upper substrate were observed; and no areas were dominated by hydrophytes were observed. These typical wetland characteristics were also not documented in the 2024 ARDR (SWCA 2024). Due to the arid conditions of the region and dry, gravelly alluvial soils encompassing the Study Area, the Study Area lacks sustained wetland conditions .

No wetland waters of the state, under the purview of the RWQCB, were determined to occur within the Study Area.

4.2 Non-Wetland Waters

4.2.1 Waters of the U.S.

Non-wetland water drainage features identified in the Study Area did not meet the most current definition of waters of the U.S. The drainages may have supported an OHWM, but were not determined to be TNWs, or provide permanent, standing or continuously flowing bodies of waters that drain to or from TNWs. The Study Area is located in the Mojave Watershed, which is a closed basin, and the drainage features occurring in the Study Area do not provide permanent, standing or continuously flowing bodies of waters to TNWs. The drainages provide ephemeral surface water flow temporarily before the water percolates into the groundwater, evaporates, or feeds into isolated dry lakes with no nexus to commerce; therefore, the drainage features in the Study Area are not considered TNWs or tributaries of TNWs.

Additionally, an Approved Jurisdictional Determination (AJD) reviewed by the USACE under *Rapanos Guidance* for the Soda Mountain Solar Project, File Number SPL-2010-01042-SLP, was issued on June 5, 2013, covering 411 acres of delineated features within a larger study area than the current revised

project (USACE 2013). The AJD found that flows on-site extend both northeast and southeast into Soda Dry Lake. In the AJD, USACE used jurisdictional report information submitted by Panorama Environmental Inc., dated November 2009 and 2013. USACE found acreages of the drainage areas (active floodplain) were "accurately calculated using GIS data and polygons." The USACE concluded the drainages were isolated non-relatively permanent waters that are tributary to an isolated, intrastate dry lake, and not ultimately tributary to a TNW. USACE concluded all 411 acres of delineated features as non-jurisdictional.

No non-wetland waters of the U.S., under the purview of the USACE, were determined to occur within the Study Area.

4.2.2 Waters of the State

Non-wetland water drainage features identified in the Study Area did meet the most current definition of waters of the state. The drainage features in which supported an OHWM indicate the drainage feature supports surface water flows and were determined to be under the purview of the RWQCB. RWQCB jurisdictional limits were mapped in the Representative Sample Plots in the Study Area, and included the full extent of the drainage within the limits of the OHWM.

Please refer to Site Photographs provided as Appendix B for images of representative drainage features identified in the 2025 field survey effort as non-wetland waters of the state and appropriately defined and mapped as RWQCB jurisdiction.

4.2.3 Streambeds

The extent of streambeds and streambanks, subject to CDFW jurisdiction under Section 1600 et seq. of the CFGC, were determined by the top of bank for stream features, including low alluvial terraces of the active floodplain where applicable in larger washes. In the event the drainage feature illustrated evidence of a bed and bank during the field survey efforts, the drainage was described as a streambed and under the purview of the CDFW. The full extent of OHWM and top of bank of the non-wetland drainage features were mapped as CDFW jurisdiction.

Please refer to Site Photographs provided as Appendix B for images of representative drainage features identified in the 2025 field survey effort as non-wetland waters of the state and appropriately defined and mapped as CDFW jurisdiction.

4.3 Non-Jurisdictional Features

During the field survey effort in 2025, features identified within the Representative Sample Plots may have illustrated evidence of ponded water, such as surface soil cracks, or characteristics of previous surface water flows, such as a eroded soils, but were not determined to be wetland or non-wetland waters of the state because the feature lacked evidence of an OHWM, defined bed and bank, and other key wetland indicators (i.e., hydrophytic vegetation, hydric soils). These features included roadside ditches, erosional features, and swale features. Additionally, evidence of off road vehicular traffic was identified throughout the Study Area, concentrated within drainage features that lacked vegetation or rocky substrate, making identification of bed and bank and OHWM indicators difficult to identify and properly map. Drainage features lacking identifiable jurisdictional indicators were identified as non-jurisdictional and not mapped in this report.

Please refer to Site Photographs provided as Appendix B for images of the drainage features identified in the 2025 field survey effort as non-jurisdictional features.

5 Impact Assessment

The following provides an assessment of estimated project impacts to jurisdictional aquatic resources as a result of proposed temporary and permanent project activities, based on the preliminary 30% Civil Design Plans, which total to a 2,098-acre impact area for the project. This assessment incorporates similar methodology as discussed above to determine acreage of jurisdictional impacts. Proposed temporary and permanent impact areas are illustrated in Figure 5 (Appendix D).

Because the entire proposed gen-tie corridor was delineated in the field and the full extent of RWQCB and CDFW jurisdiction was mapped, the proposed temporary and permanent impacts associated with the gen-tie corridor was calculated utilizing GIS. For the four proposed solar array locations, jurisdictional areas were based on calculations summarized in Section 4 above, incorporating the proposed acreage of temporary and permanent impacts within each solar array and for the remaining proposed project impact areas. Specifically, the mean value of jurisdictional areas retained from field data collected from Representative Sample Plots was multiplied by the proposed temporary and permanent impact areas, for each array. The median value of all data collected from the Representative Sample Plots was multiplied by the proposed temporary and permanent impact areas for the remaining portions of the project site. The total values are provided in Table 7 below.

Table 7 Summary of Estimated Jurisdictional Aquatic Resource Impacts within the Project Site

	RWQCB Ju	urisdiction_	CDFW Jur	<u>isdiction</u>
	Non-Wetland Wa	aters of the State	Stream	nbed
Project Component	Temporary	Permanent	Temporary	Permanent
Project Component	(acres/linear feet)	(acres/linear feet)	(acres/linear feet)	(acres/linear feet)
East Array	27.86/453,249	0.38/6,253	42.66/453,249	0.588/6,253
South Array 1	25.12/210,539	0.45/3,773	40.03/210,539	0.72/3,773
South Array 2	42.38/523,418	0.68/8,440	70.51/523,418	1.14/8,440
South Array 3	11.54/111,495	0.20/1,884	22.13/111,495	0.37/1,884
Remaining Project Site	23.28/290,867	15.48/193,456	37.05/290,867	24.64/193,456
Gen-Tie Corridor ¹	1.65/14,255	0.07/2,103	2.89/14,255	0.29/2,103
TOTALS	131.83/1,603,823	17.26/215,909	215.27/1,603,823	27.75/215,909

Notes: No USACE Jurisdiction was determined present in the Project site. No wetland waters of the state were determined present in the Project site.

Along the gen-tie corridor, impacts will primarily result in temporary impacts; however, construction of a Substation/Switchyard will result in permanent impacts. Grading using heavy equipment would occur within portions of the arrays to prepare for construction, resulting in temporary impacts; however, inverters will be installed within the footprint of the arrays, resulting in permanent impacts. Grading of access roads and installation of water control berms, located throughout the project site will stay in place throughout the life of the project, will also result in permanent impacts. Temporary

^{1:} Based on field data and mapping the full extent of the OHWM for RWQCB jurisdiction and full extent of the streambed from top of bank for CDFW jurisdiction.

impacts will also occur as a result of grading of two temporary laydown yards used to store equipment and project-related materials.

For grading and construction activities for the solar array installation, incorporated into the project design includes the following Mitigation Measure (MM):

MM BIO-3: Construction Impact Minimization. The project shall implement an advanced technology terrain-following solar tracker system (such as the Nextracker NX Horizon-XTR-0.75 10-inch tracker system, Nevados All Terrain Tracker system, or other system resulting in a similar reduction) that reduces grading under the solar field, consisting of solar power arrays identified as East Array and South Arrays 1, 2 and 3. Quarterly construction monitoring reports shall be provided to the California Energy Commission during the construction period for the project. The quarterly construction monitoring reports shall quantify and document all remaining permanent and temporary grading acreage from project construction with the terrain-following tracker system. All temporary grading impact areas shall be revegetated onsite as described in the project-specific Temporary Disturbance Revegetation Plan (APM BIO-7 and MM-BIO-21). All permanent grading impact areas shall be mitigated at the required compensatory mitigation standards of the resource agencies (APM BIO-36, MM BIO-12, MM BIO-24).

With implementation of MM BIO-3, on-site grading and associated ground disturbance would be significantly reduced under the solar field. The reduction in on-site grading and associated ground disturbance would reduce the potential for the project to result in direct, indirect or cumulative impacts related to water quality standards, waste discharge requirements, surface and groundwater quality degradation and the alteration of onsite drainage patterns.

6 Discussion

This ARDR provides the necessary data to support a jurisdictional determination from the USACE, and verification from RWQCB and CDFW/CEC. Authorization from these agencies may be required for implementation of the proposed project if it will involve alteration of or impacts to potentially jurisdictional aquatic resources identified in the Study Area. The results of the aquatic resources delineation conclude that non-wetland, ephemeral aquatic features occur within the Study Area that may be subject to RWQCB and CDFW jurisdiction, further summarized below.

In summary, no wetland waters of the U.S. were identified in the Study Area. Non-wetland drainage features identified in the Study Area did not meet the most current definition of waters of the U.S. The drainages may have supported an OHWM, but were not determined to be TNWs, or provide permanent, standing or continuously flowing bodies of waters that drain to or from TNWs. Additionally, an AJD reviewed by the USACE under *Rapanos Guidance* for the Soda Mountain Solar Project, File Number SPL-2010-01042-SLP, was issued on June 5, 2013, covering 411 acres of delineated features within a larger study area than the current revised project. The AJD found that flows on-site extend both northeast and southeast into Soda Dry Lake. The USACE concluded the drainages were isolated non-relatively permanent waters that are tributary to an isolated, intrastate dry lake, and not ultimately tributary to a TNW. USACE concluded all 411 acres of delineated features as non-jurisdictional. Therefore, no wetland or non-wetland waters of the U.S., under the purview of the USACE, were determined to occur within the Study Area.

No wetland waters of the state were identified during the field effort within the Study Area. Non-wetland drainage features identified in the Study Area did meet the most current definition of waters of the state. The drainage features that exhibited an OHWM indicate they support surface water flows and were determined to be under the purview of the RWQCB. RWQCB jurisdictional limits identified in the Study Area include the full extent of the drainage within the limits of the OHWM. Impact acreage included the delineated gen-tie corridor acreage, and the mean values of RWQCB jurisdiction delineated within the 50 Representative Sample Plots were used to calculate estimated acreage/linear feet within the four proposed solar arrays and the remaining project impact areas. Therefore, a total of approximately 149.09 acres (1,819,732 linear feet) of RWQCB jurisdiction was estimated to occur within the proposed project site. Authorization from the RWQCB is anticipated if the aquatic resources cannot be avoided by the proposed project design. Specifically, a Waste Discharge Requirement would be required from the Lahontan RWQCB for impacts to waters of the state.

The drainage features in the Study Area that exhibited evidence of a bed and bank, were described as a streambed subject to the purview of the CDFW under Section 1600 of the California Fish and Game Code. The top of bank of the non-wetland drainage feature was identified as the limit of CDFW jurisdiction. Impact acreage included the delineated gen-tie corridor acreage, and the mean values of RWQCB jurisdiction delineated within the 50 Representative Sample Plots were used to calculate estimated acreage/linear feet within the four proposed solar arrays and the remaining project impact areas. Therefore, a total of approximately 243.02 acres (1,819,732 linear feet) of potential CDFW jurisdiction occurs within the project site. Authorization from the CDFW (via the AB 205 Opt-in-pathway), specifically a CDFW Notification of Lake or Streambed Alteration Agreement, is anticipated if these aquatic resources cannot be avoided by the proposed project design.

7 Limitations, Assumptions, and Use Reliance

This jurisdictional delineation has been performed in accordance with best jurisdictional investigation practices conducted at this time and in this geographic area. The jurisdictional investigation is limited by the scope of work performed. The jurisdictional survey is limited also by the environmental conditions present at the time of the survey. Our field studies were based on current industry practices, which change over time and may not be applicable in the future. No other guarantees or warranties, expressed or implied, are provided. The findings and opinions conveyed in this report are based on findings derived from site reconnaissance, jurisdictional delineation, and specified historical and literature sources. Although Rincon believes the data sources are reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used. Additionally, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary research and analysis.

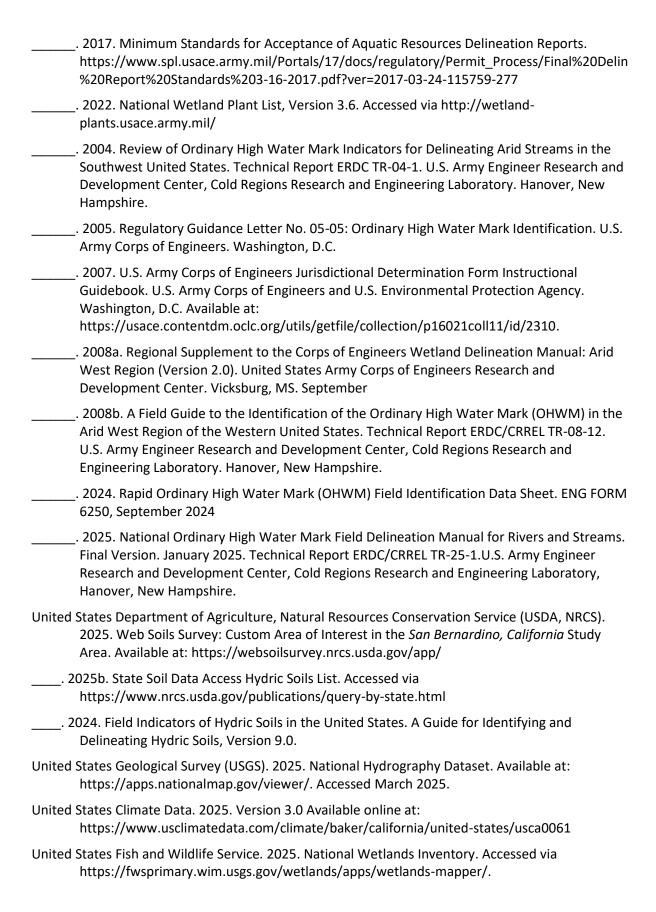
8 References

- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, editors. 2012. The Jepson Manual: Vascular Plants of California, second edition. University of California Press, Berkeley, CA.
- California Department of Fish and Wildlife (CDFW). 2025. California Sensitive Natural Communities. Available at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=153609
- California, State of. 2006. Fish and Game Code. http://www.leginfo.ca.gov/calaw.html
- Environmental Protection Agency (EPA). 2023. Definition of "Waters of the United States": Rule Status and Litigation Update. Available at: https://www.epa.gov/wotus/definition-waters-united-states-rule-status-and-litigation-update. Accessed September 2024.
- Federal Emergency Management Agency (FEMA). 2025. Flood Map Service Center. Accessible via https://msc.fema.gov/portal/home
- Google Earth Pro. 2025. Available at: https://earth.google.com/web.
- Jepson Flora Project (eds.) 2025. Jepson eFlora. Available at: https://ucjeps.berkeley.edu/eflora/. Accessed My 2025.
- Munsell® Color. 2000. Munsell® Soil Color Charts. Gretagmacbeth, New York.
- Regional Water Quality Control Board (RWQCB). 1995. Water Quality Control Plan for the Lahontan Region. March 31; Amended October 29, 2019. Available at:

 https://www.waterboards.ca.gov/lahontan/water_issues/programs/basin_plan/references.
 html
- State Water Resources Control Board (SWRCB). 2021. Wetland Definition and Procedures for Discharges of Dredge and Fill Material to Waters of the State. Adopted April 2, 2019, and revised April 6, 2021. Available at:

 https://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/2021/procedures.pdf.
- SWCA Environmental Consultants. 2025. Soda Mountain Solar Project Biological Resources Technical Report, San Bernardino County, California. January 2025. Prepared for Soda Mountain Solar LLC.
- ______. 2024. Aquatic Resources Delineation Report for the Soda Mountain Solar Project, San Bernardino County, California. December 2023 (Revised June 2024). Prepared for Soda Mountain Solar LLC.
- United States Army Corps of Engineers (USACE), Environmental Laboratory. 1987. Technical Report Y-97-1. In: United States Army Corps of Engineers Wetlands Delineation Manual. United States Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS.
- ______. 2013. Approved Jurisdictional Determination Form. June 5, 2013. Los Angeles District, Soda Mountain Solar Project, SPL-2010-01042-SLP. Available at:

 https://www.spl.usace.army.mil/Missions/Regulatory/Final-Regulatory-Actions/



Appendix A

Regulatory Framework

Regulatory Framework

The following is a brief summary of the regulatory context under which biological resources are managed at the federal, State, and local levels. A number of federal and State statutes provide a regulatory structure which guide the protection of jurisdictional features. Agencies with the responsibility for protection of jurisdictional features within the Project region include:

- United States Army Corps of Engineers (non-wetland waters and wetlands of the United States)
- Lahontan Regional Water Quality Control Board (waters of the State)
- California Department Fish and Wildlife (riparian areas, streambeds, and lakes)
- California Energy Commission

United States Army Corps of Engineers

The United States Army Corps of Engineers (USACE) is responsible for administering several federal programs related to ensuring the quality and navigability of the nation's waters.

Clean Water Act Section 404

Congress enacted the Clean Water Act (CWA) "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters." The CWA establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating quality standards for surface waters. The basis of the CWA was enacted in 1948 and was called the Federal Water Pollution Control Act, but the law was significantly reorganized and expanded in 1972. "Clean Water Act" became the law's common name with amendments in 1972.

Section 404 of the CWA establishes a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Section 404 of the CWA authorizes the Secretary of the Army, acting through the USACE, to issue permits regulating the discharge of dredged or fill materials into the "navigable waters at specified disposal sites." Section 404 requires that a permit be issued before dredged or fill material may be discharged into waters of the United States, unless the activity is exempt from regulation under Section 404 (e.g., certain farming and forestry activities).

Waters of the U.S.

The USACE and US Environmental Protection Agency (USEPA) have undertaken several efforts to modernize their regulations defining "waters of the United States" (e.g., the 2015 Clean Water Rule and 2020 Navigable Waters Protection Rule), but these efforts have been frustrated by legal challenges which have invalidated the updated regulations. As a result of the Supreme Court ruling in *Sackett v. Environmental Protection Agency*, EPA and USACE issued a final rule that amends the "Revised Definition of 'Waters of the United States'" to conform key aspects of the regulatory text to the U.S. Supreme Court's decision (88 Federal Register 61964–61969, September 8, 2023).

Under the "Revised Definition of 'Waters of the United States'; Conforming" rule, the term "waters of the United States" is defined as follows (33 CFR 328.3[a]):

- (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.

In addition, the amended regulations include eight types of excluded waters (33 CFR 328.3[b]) which are not "waters of the United States" even where they otherwise meet the terms of paragraphs (a)(2) through (5) of this section:

- (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 waters of the United States; and
- (8) Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

The lateral limits of USACE jurisdiction in non-tidal waters is defined by the "ordinary high-water mark" (OHWM) unless adjacent wetlands are present. The OHWM is a line on the shore or edge of a channel established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed upon the bank, shelving, changes in the character of soil, destruction of vegetation, or the presence of debris (33 CFR 328.3(e)). As such, waters are recognized in the field by the presence of a defined watercourse with appropriate physical and topographic features. If wetlands occur within, or adjacent to, waters of the United States, the lateral limits of USACE jurisdiction extend beyond the OHWM to the outer edge of the wetlands (33 CFR 328.4 (c)). The upstream limit of jurisdiction in the absence of adjacent wetlands is the point beyond which the OHWM is no longer perceptible (33 CFR 328.4; see also 51 FR 41217).

Wetlands

The USACE defines wetlands as "those areas that are inundated or saturated by surface or groundwater 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" (33 CFR 328.3). Indicators of three wetland parameters (hydric soils, hydrophytic vegetation, and wetlands hydrology), as determined by site investigation, must be present at a site for USACE to classify the site as a wetland (Environmental Laboratory 1987). The following is a discussion of each of these parameters.

Hydrophytic Vegetation

Hydrophytic vegetation dominates areas where frequency and duration of inundation or soil saturation exerts a controlling influence on the plant species present. Plant species are assigned wetland indicator status according to the probability of their occurring in wetlands. More than fifty percent of the dominant plant species must have a wetland indicator status to meet the hydrophytic vegetation criterion. The USACE published the National Wetland Plant List (USACE 2018), which separates vascular plants into the following four basic categories based on plant species frequency of occurrence in wetlands:

- Obligate Wetland (OBL). Almost always occur in wetlands
- Facultative Wetland (FACW). Usually occur in wetlands, but occasionally found in non-wetlands
- Facultative (FAC). Occur in wetlands or non-wetlands
- Facultative Upland (FACU). Usually occur in non-wetlands, but may occur in wetlands
- Obligate Upland (UPL). Almost never occur in wetlands

The USACE considers OBL, FACW and FAC species to be indicators of wetlands. An area is considered to have hydrophytic vegetation when greater than 50 percent of the dominant species in each vegetative stratum (tree, shrub, and herb) fall within these categories. Any species not appearing on the United States Fish and Wildlife Service's list is assumed to be an upland species, almost never occurring in wetlands. In addition, an area needs to contain at least 5% vegetative cover to be considered as a vegetated wetland.

Hydric Soils

Hydric soils are saturated or inundated for a sufficient duration during the growing season to develop anaerobic or reducing conditions that favor the growth and regeneration of hydrophytic vegetation. Field indicators of wetland soils include observations of ponding, inundation, saturation, dark (low chroma) soil colors, bright mottles (concentrations of oxidized minerals such as iron), gleying

(indicates reducing conditions by a blue-grey color), or accumulation of organic material. Additional supporting information includes documentation of soil as hydric or reference to wet conditions in the local soils survey, both of which must be verified in the field.

Wetland Hydrology

Wetland hydrology is inundation or soil saturation with a frequency and duration long enough to cause the development of hydric soils and plant communities dominated by hydrophytic vegetation. If direct observation of wetland hydrology is not possible (as in seasonal wetlands), or records of wetland hydrology are not available (such as stream gauges), assessment of wetland hydrology is frequently supported by field indicators, such as water marks, drift lines, sediment deposits, or drainage patterns in wetlands.

Limitations on Jurisdiction based on Sackett v. USEPA Supreme Court Decision

On May 25, 2023, the Supreme Court issued its decision on the petition from the Sacketts, a family in Idaho that was subject to a compliance order from the USEPA for backfilling their lot near Priest Lake, which the USEPA claimed contained federally regulated wetlands. The wetlands in question were adjacent to a ditch that fed a creek that ultimately drained into Priest Lake, a navigable water body. The USEPA asserted that the Sacketts had violated the law by filling the wetlands on their property without a permit. The Court's decision addressed controversy over whether, and under what conditions, the CWA reaches navigable waters' tributaries or adjacent wetlands. The Supreme Court's decision in Sackett provides definitive guidance to the agencies in determining the limits of their Clean Water Act authority. Major tenets of the decision have been incorporated into the agencies' current regulations through the September 2023 Conforming Rule.

The Court decided:

- "Adjacent wetlands" are WOTUS only if there is a continuous surface connection between the wetland and a navigable or relatively permanent water body, such that it is difficult to determine the boundary between the wetland and the water body. The opinion notes that "temporary interruptions to surface connection may sometimes occur because of phenomena like low tides or dry spells." The agencies addressed this element by defining the term "adjacent" to mean "having a continuous surface connection" in the Conforming Rule.
- The Significant Nexus Standard, introduced by the Court in prior decisions, is not mentioned in the Clean Water Act and should not be used. The Court determined that the standard applies ecological factors whose use in determining jurisdiction is not supported by the statute. The Conforming Rule removed significant nexus considerations from the definition.
- Although jurisdiction over tributaries was not addressed by the Court, the decision stated that "...the [Clean Water Act's] use of "waters" encompasses only those relatively permanent, standing or continuously flowing bodies of water forming geographical features that are described in ordinary parlance as streams, oceans, rivers, and lakes." The Conforming Rule makes clear that only relatively permanent tributaries qualify as "waters of the United States."

State Water Resource Control Boards

The State Water Resources Control Board (SWRCB) and nine Regional Water Quality Control Boards (RWQCBs) have jurisdiction over "waters of the State," which are defined as any surface water or

groundwater, including saline waters, within the boundaries of the state (California Water Code sec. 13050(e)). These agencies also have responsibilities for administering portions of the CWA.

Clean Water Act Section 401

Section 401 of the CWA requires an applicant requesting a federal license or permit for an activity that may result in any discharge into navigable waters (such as a Section 404 Permit) to provide state certification that the proposed activity will not violate state and federal water quality standards. In California, CWA Section 401 Water Quality Certification (Section 401 Certification) is issued by the RWQCBs and by the SWRCB for multi-region projects. The process begins when an applicant submits an application to the RWQCB and informs the USACE (or the applicable agency from which a license or permit was requested) that an application has been submitted. The USACE will then determine a "reasonable period of time" for the RWQCB to act on the application; this is typically 60 days for routine projects and longer for complex projects but may not exceed one year. When the period has elapsed, if the RWQCB has not either issued or denied the application for Section 401 Certification, the USACE may determine that Certification has been waived and issue the requested permit. If a Section 401 Certification is issued it may include binding conditions, imposed either through the Certification itself or through the requested federal license or permit.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Porter-Cologne Act) is the principal law governing water quality regulation in California. It establishes a comprehensive program to protect water quality and the beneficial uses of water. The Porter-Cologne Act applies to surface waters, wetlands, and ground water and to both point and nonpoint sources of pollution. Pursuant to the Porter-Cologne Act (California Water Code section 13000 et seq.), the policy of the State is as follows:

- The quality of all the waters of the State shall be protected
- All activities and factors affecting the quality of water shall be regulated to attain the highest water quality within reason
- The State must be prepared to exercise its full power and jurisdiction to protect the quality of water in the State from degradation

The Porter-Cologne Act established nine RWQCBs (based on watershed boundaries) and the SWRCB, which are charged with implementing its provisions and which have primary responsibility for protecting water quality in California. The SWRCB provides program guidance and oversight, allocates funds, and reviews RWQCB decisions. In addition, the SWRCB allocates rights to the use of surface water. The RWQCBs have primary responsibility for individual permitting, inspection, and enforcement actions within each of nine hydrologic regions. The SWRCB and RWQCBs have numerous nonpoint source related responsibilities, including monitoring and assessment, planning, financial assistance, and management.

Section 13260 of the Porter-Cologne Act requires any person discharging or proposing to discharge waste that could affect the quality of waters of the State to file a Report of Waste Discharge with the appropriate RWQCB. The RWQCB may then authorize the discharge, subject to conditions, by issuing Waste Discharge Requirements (WDRs). While this requirement was historically applied primarily to outfalls and similar point source discharges, the SWRCB's State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State, effective May 2020, make it clear that

the agency will apply the Porter-Cologne Act's requirements to discharges of dredge and fill material as well. The *Procedures* state that they are to be used in issuing CWA Section 401 Certifications and WDRs, and largely mirror the existing review requirements for CWA Section 404 Permits and Section 401 Certifications, incorporating most elements of the USEPA's *Section 404(b)(1) Guidelines*. Following issuance of the *Procedures*, the SWRCB produced a consolidated application form for dredge/fill discharges that can be used to obtain a CWA Section 401 Water Quality Certification, WDRs, or both.

Non-Wetland Waters of the State

The SWRCB and RWQCBs have not established regulations for field determinations of waters of the state except for wetlands currently. In many cases the RWQCBs interpret the limits of waters of the State to be bounded by the OHWM unless isolated conditions or ephemeral waters are present. However, in the absence of statewide guidance each RWQCB may interpret jurisdictional boundaries within their region and the SWRCB has encouraged applicants to confirm jurisdictional limits with their RWQCB before submitting applications. As determined by the RWQCB, waters of the State may include riparian areas or other locations outside the OHWM, leading to a larger jurisdictional area over a given water body compared to the USACE.

Wetland Waters of the State

Procedures for defining wetland waters of the State pursuant to the SWRCB's *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* went into effect May 28, 2020. The SWRCB defines an area as wetland if, under normal circumstances:

- (i) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both;
- (ii) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and
- (iii) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

The SWRCB's Implementation Guidance for the Wetland Definition and Procedures for Discharges of Dredge and Fill Material to Waters of the State (2020), states that waters of the U.S. and waters of the State should be delineated using the standard USACE delineation procedures, taking into consideration that the methods shall be modified only to allow for the fact that a lack of vegetation does not preclude an area from meeting the definition of a wetland.

California Department of Fish and Wildlife

The California Department of Fish and Wildlife (CDFW) derives its authority from the Fish and Game Code of California and administers several State laws protecting fish and wildlife resources and the habitats upon which they depend.

Protection of Lakes and Streambeds

California Fish and Game Code section 1602 states that it is unlawful for any person to "substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake" without first notifying the California Department of Fish and Wildlife (CDFW) of that activity. Thereafter, if CDFW determines and informs the entity that

the activity will not substantially adversely affect any existing fish or wildlife resources, the entity may commence the activity. If, however, CDFG determines that the activity may substantially adversely affect an existing fish or wildlife resource, the entity may be required to obtain from CDFW a Streambed Alteration Agreement (SAA), which will include reasonable measures necessary to protect the affected resource(s), before the entity may conduct the activity described in the notification. Upon receiving a complete Notification of Lake/Streambed Alteration, CDFW has 60 days to present the entity with a Draft SAA. Upon review of the Draft SAA by the applicant, any problematic terms are negotiated with CDFW and a final SAA is executed.

The CDFW has not defined the term "stream" for the purposes of implementing its regulatory program under Section 1602, and the agency has not promulgated regulations directing how jurisdictional streambeds may be identified, or how their limits should be delineated. However, four relevant sources of information offer insight as to the appropriate limits of CDFW jurisdiction as discussed below.

- The plain language of Section 1602 of CFGC establishes the following general concepts:
 - References "river," "stream," and "lake"
 - References "natural flow"
 - References "bed," "bank," and "channel"
- Applicable court decisions, in particular Rutherford v. State of California (188 Cal App. 3d 1276 (1987), which interpreted Section 1602's use of "stream" to be as defined in common law. The Court indicated that a "stream" is commonly understood to:
 - Have a source and a terminus
 - Have banks and a channel
 - Convey flow at least periodically, but need not flow continuously and may at times appear outwardly dry
 - Represent the depression between the banks worn by the regular and usual flow of the water
 - Include the area between the opposing banks measured from the foot of the banks from the top of the water at its ordinary stage, including intervening sand bars
 - Include the land that is covered by the water in its ordinary low stage
 - Include lands below the OHWM
- CDFW regulations defining "stream" for other purposes, including sport fishing (14 CCR 1.72) and streambed alterations associated with cannabis production (14 CCR 722(c)(21)), which indicate that a stream:
 - Flows at least periodically or intermittently
 - Flows through a bed or channel having banks
 - Supports fish or aquatic life
 - Can be dry for a period of time
 - Includes watercourses where surface or subsurface flow supports or has supported riparian vegetation
- **Guidance documents**, including A Field Guide to Lake and Streambed Alteration Agreements (CDFG 1994) and Methods to Describe and Delineate Episodic Stream Processes on Arid

Landscapes for Permitting Utility-Scale Solar Power Plants (Brady and Vyverberg 2013), which suggest the following:

- A stream may flow perennially or episodically
- A stream is defined by the course in which water currently flows, or has flowed during the historic hydrologic course regime (approximately the last 200 years)
- Width of a stream course can reasonably be identified by physical or biological indicators
- A stream may have one or more channels (single thread vs. compound form)
- Features such as braided channels, low-flow channels, active channels, banks associated with secondary channels, floodplains, islands, and stream-associated vegetation, are interconnected parts of the watercourse
- Canals, aqueducts, irrigation ditches, and other means of water conveyance can be considered streams if they support aquatic life, riparian vegetation, or stream-dependent terrestrial wildlife
- Biologic components of a stream may include aquatic and riparian vegetation, all aquatic wildlife including fish, amphibians, reptiles, invertebrates, and terrestrial species which derive benefits from the stream system
- The lateral extent of a stream can be measured in different ways depending on the particular situation and the type of fish or wildlife resource at risk

The tenets listed above, among others, are applied to establish the boundaries of streambeds in various environments. Importance of each factor may be weighted based on site-specific considerations and the applicability of the indicators to the streambed at hand.

California Energy Commission

The California Energy Commission (CEC) has been authorized under Assembly Bill 205 (Chapter 61, 2022) to establish a new certification program for eligible non-fossil-fueled power plants and related facilities to optionally seek certification from the CEC, using emergency rulemaking authority provided by AB 205. Per the Notice of Approval of Emergency Regulatory Action for Opt-in Regulations Section 1877, Opt-In applications are required to include all the information specified by California Code of Regulations (CCR) Title 20 Division 2 Section 1704(a) Appendix B that is relevant to the project.

Appendix B

Site Photographs

Representative Images of Non-Wetland Waters of the State (RWQCB/CDFW Jurisdiction)
Photographed in Representative Sample Plots within the Study Area between March 24 – 28, 2025



Photo Point E-4-1 (East Array). Northwestern facing representative photograph facing downstream of a small drainage exhibiting indicators of an OHWM (see Figure 13).



Photo Point E-6-3 (East Array). Southeast facing representative photograph of an upstream portion of a drainage exhibiting indicators of an OHWM (see Figure 13).



Photo Point E-11-3 (East Array). East facing representative photograph illustrating indicators of an OHWM, corresponding to the EK-003 Datasheet (see Figure 17).



Photo Point E-7-3 (East Array). West facing representative photograph illustrating an OHWM and no riparian vegetation, corresponding to the ATG-004 Datasheet (see Figure 15).



Photo Point E-9-2 (East Array). East facing representative photograph illustrating an upstream portion of a drainage exhibiting an OHWM and no riparian vegetation, corresponding to the EK-004 Datasheet (see Figure 17).



Photo Point E-5-3 (East Array). Northeast facing representative photograph illustrating indicators of an OHWM, corresponding to the KG-003 Datasheet (see Figure 13).



Photo Point S1-3-2 (South Array 1). East facing representative photograph illustrating an upstream portion of a drainage exhibiting an OHWM and no riparian vegetation, corresponding to the ATG-003 Datasheet (see Figure 18).



Photo Point S1-5-2 (South Array 1). Southwest facing representative photograph illustrating indicators of an OHWM, corresponding to the KG-001 Datasheet (see Figure 19).



Photo Point S2-14-1 (South Array 2). West facing representative photograph of an upstream drainage feature exhibiting indicators of an OHWM (see Figure 24).



Photo Point S2-5-2 (South Array 2). East facing representative photograph of a downstream drainage feature exhibiting indicators of an OHWM, corresponding to the EK-001 Datasheet (see Figure 22).



Photo Point S2-6-2 (South Array 2). West facing representative photograph of a drainage feature exhibiting indicators of an OHWM, corresponding to the ATG-002 Datasheet (see Figure 21).

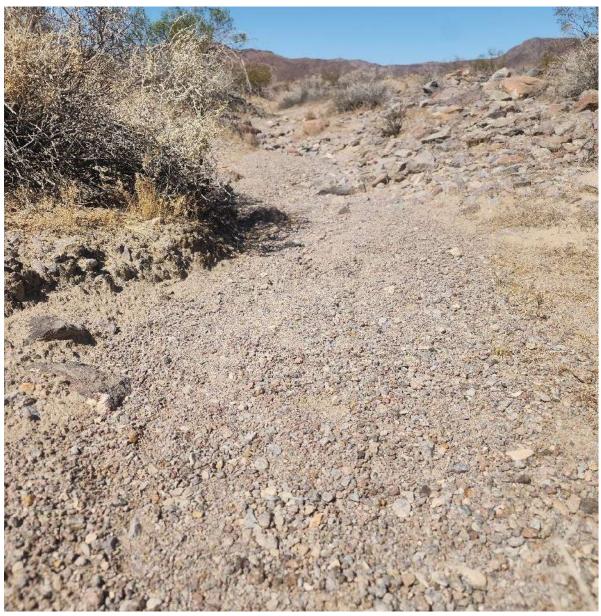


Photo Point S2-8-1 (South Array 2). East facing representative photograph of an downstream drainage feature exhibiting indicators of an OHWM, corresponding to the EK-001 Datasheet (see Figure 21).



Photo Point S3-2-1 (South Array 3). Northeast facing representative photograph of drainages in the Study Area exhibiting weak indicators of a bed and bank and change in substrate (see Figure 28).



Photo Point S3-7-1 (South Array 3). East facing representative photograph of drainages in the Study Area exhibiting weak indicators of a bed and bank and change in substrate (see Figure 30).



Photo Point S3-8-1 (South Array 3). Northeast facing representative photograph of drainages in the Study Area exhibiting weak indicators of a bed and bank and change in substrate (see Figure 29).



Photo Point S3-11-1 (South Array 3). West facing representative photograph of drainages in the Study Area exhibiting weak indicators of a bed and bank and change in substrate (see Figure 31).



Photo Point T1 (Gen-Tie Corridor). Northeast facing representative photograph illustrating a floodplain control ditch paralleling Interstate 15, facing downstream (see Figure 12).



Photo Point T11 (Gen-Tie Corridor). East facing representative photograph illustrating braided drainages, facing downstream (see Figure 11).

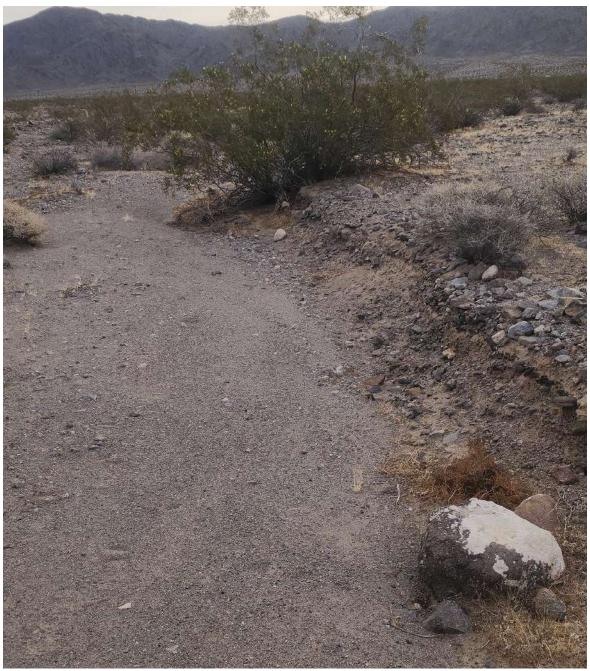


Photo Point T12 (Gen-Tie Corridor). East facing representative photograph illustrating indicators of an OHWM in a drainage feature, corresponding to ATG-005 Datasheet (see Figure 11).



Photo Point T-5 (Gen-Tie Corridor). West facing view of drainage where indicators have been disturbed by vehicular activities (see Figure 12).

Representative Images of Non-Jurisdictional Features Photographed in Representative Sample Plots within the Study Area Photographed between March 24 – 28, 2025



S2-13-2 (South Array 2). East facing view of a representative area exhibiting indicators of sheet flow and swales with no obvious indicators of an OHWM (see Figure 23).

Appendix C

Completed Datasheets

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.				
Project ID #: Soda Mountain Solar Site N	Name: ATG001	Date and Time: 3/25/25 11:24am		
Location (lat/long): 35.147816, -116.190936		stigator(s): Antonette Gutierrez		
Step 1 Site overview from remote and online rescheck boxes for online resources used to gage data LiDAR climatic data satellite imagery aerial photos topographic maps		Describe land use and flow conditions from online research were there any recent extreme events (floods or drought)? Conditions dry and apparently lacking sign winter rainfall this year.	>	
Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or human-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls, etc. Undisturbed single channel with natural, gentle slopes of upland sand and small rock.				
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.				
Geomorphic indicators		Sediment indicators		
X Break in slope	X Channel bar	Soil development		
X on the bank undercut bank valley bottom Other: Shelving shelf at top of bank natural levee human-made berms or levees other berms: X Secondary channels Vegetation indicators (Consider the vegetation training the banks, and into the flood of the control of the	•	Mudcracks Changes in particle-sized distribution from to upper limit of sand-sized particles, steps, edrock factors (e.g., smoothing, etc.) e of the channel, Other physical indicators Sediment deposited on vegetatistructures Wracking/presence of organic I	icles ion or itter	
Other observed indicators? Describe: Larrea tridentata-Ambrosia dumosa do throughout the landscape.	ominate on the channel	Water staining bl banks. Both shrubs are uniformly dispersed		

Project ID #: So	da Mountain Solar
-	itional information used to support identification of the OHWM? Yes No escribe and attach information to data sheet:
-	WM present at this site?
	eak in slope with defined bed and bank in various locations throughout the channel. Secondary
to the chann	w into the main channel. Slight shelving on the steeper bank. Obvious change in soil from upland el bottom.
Additional obse	ervations or notes
Attach an image	ry log of the site. ry log attached? X Yes No If no, explain why not:
	s, or other imagery/sketches, and include descriptions in the table below.
Number photogra	aphs in the order that they are taken. Attach imagery and include annotations of features.
lmagery Number	Imagery description
S2-8-1	Multi-thread unvegetated streambed (junction) upstream.
S2-8-2	Unvegetated streambed downstream.

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.			
Project ID #: Soda Mountain Solar	Site Name: KG002		Date and Time: 3/26/25 1:30pm
Location (lat/long): 35.170851, -116.16942	24	Investiga	tigator(s): Kyle Gunther
vegetation and sediment type, size, on channel form, such as bridges, riprap	geologic maps land use maps Other: ment. First look for changes ir density, and distribution. Make of landslides, rockfalls, etc.	n channel note of na	Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? Open desert in a regional drought. Conditions dry and apparently lacking significant winter rainfall this year. Lel shape, depositional and erosional features, and changes in finatural or human-made disturbances that would affect flow and in numerous small braided ephemeral drainages that flow
across a paved road (Arrowhead Trail	l) and converge downstre	eam of the	the road into a larger, more defined wash. Litter present
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.			
Geomorphic indicators			Sediment indicators
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels Vegetation indicators (Consider the vegetate up the banks, and interpretation type from	tion transition looking from the o the floodplain)	sition (go to tion (go to eposition of and other evidence oad indicates, gravel s pools, rifflets or bedra at indicate scour, sn	Mudcracks X Changes in particle-sized distribution X transition from silt/sandto sand/grav upper limit of sand-sized particles icators (e.g., el sheets, etc.) riffles, steps, adrock cators (e.g., smoothing, etc.) of the channel, Other physical indicators
Change in vegetation type from Change in density of vegetation Exposed roots below intact soil laye Other vegetation observations Other observed indicators? Describe:		d down a	structures Wracking/presence of organic litter

Project ID #: So	oda Mountain Solar
	litional information used to support identification of the OHWM? Yes No
If yes, de	escribe and attach information to data sheet:
	IWM present at this site? Yes No
	e rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).
	silty floodplain present (unvegetated), then transitions to an obvious bank at the OHWM that is and has sandy-gravel soils.
vegetated at	id has sandy-graver sons.
	ervations or notes
Road has lik	xely created this convergence point from the upstream braided channels on the bajada.
Attach an image	ery log of the site.
	ery log attached? Yes No If no, explain why not:
	s, or other imagery/sketches, and include descriptions in the table below.
Number photogr	raphs in the order that they are taken. Attach imagery and include annotations of features.
Imagery Number	Imagery description
E-6-2	Downstream
E-6-3	Upstream
E-6-4	OHWM and TOB

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.			
Project ID #: Soda Mountain Solar Site	e Name: KG003		Date and Time: 3/26/25 2:50pm
Location (lat/long): 35.170590, -116.172039 Investigator(s): Kyle Gunther			
Step 1 Site overview from remote and online recheck boxes for online resources used gage data LiDAR climatic data satellite imagery aerial photos topographic maps		Were there any red Open desert in	e and flow conditions from online resources. cent extreme events (floods or drought)? In a regional drought. Conditions cently lacking significant winter cear.
Step 2 Site conditions during field assessmen vegetation and sediment type, size, dense channel form, such as bridges, riprap, land Flat sandy floodplain (unvegetated). Upland vegetation consists of Larrea	ity, and distribution. Make ndslides, rockfalls, etc. Obvious banks (~1	note of natural or human-m foot tall) made up o	of sandy gravel and some cobble.
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.			
Geomorphic indicators			Sediment indicators
X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	imbricated clasts bedforms (e.g., µ etc.) Weathered clast	ition (go to veg. ion (go to sed. cosition on bar and other vidence ad indicators (e.g., s, gravel sheets, etc.) cools, riffles, steps,	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from sand to gravel upper limit of sand-sized particles silt deposits
Vegetation indicators (Consider the vegetation to up the banks, and into the X Change in vegetation type from X Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations	of floodplain) Oto Lai	rtri-Ambdum	Other physical indicators X Sediment deposited on vegetation or structures X Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining
Other observed indicators? Describe:			

Project ID #: Soc	da Mountain Solar		
	Step 4 Was additional information used to support identification of the OHWM? Yes Yes If yes, describe and attach information to data sheet:		
-	WM present at this site? Yes No No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).		
	tated floodplain below OHWM (sandy). Break in slope at OHWM. Transition from sloped to flat change in sediment to gravel, and vegetated.		
Additional obse	rvations or notes		
Attach an imager			
	ry log attached? Yes No If no, explain why not:		
	, or other imagery/sketches, and include descriptions in the table below. aphs in the order that they are taken. Attach imagery and include annotations of features.		
Imagery Number	Imagery description		
E-5-1	Downstream		
E-5-2	Upstream		
E-5-3	OHWM and TOB		

U.S. Army Corps of Engineers (USACE) RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET The proponent agency is Headquarters USACE CECW-COR.

Form Approved -OMB No. 0710-0024 Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

whs.mc-alex.esd.mbx.dd-dod-information-college	ctions@mail.mil. Respondents	should be aware that no	otwithstanding any other provision of law, no tdisplay a currently valid OMB control number.	
Project ID #: Soda Mountain Solar Site Name: ATG003		Date and Time: 3/26/25 8:35am		
Location (lat/long): 35.160971, -116.175045		nvestigator(s): Antonet	te Gutierrez	
Step 1 Site overview from remote and online Check boxes for online resources us gage data LiDAR climatic data satellite imagery aerial photos topographic maps		Were there any re Desert bajad	se and flow conditions from online resources. ecent extreme events (floods or drought)? a. Conditions dry and apparently ificant winter rainfall this year.	
Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or human-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls, etc. Shallow large channels with shallow sand tributaries in flat desertscape disturbed by offroad activity.				
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.				
Geomorphic indicators			Sediment indicators	
X Break in slope X on the bank undercut bank valley bottom Other: Shelving shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels		on (go to veg. graph (go to sed. sition on bar d other lence l indicators (e.g., gravel sheets, etc.) pols, riffles, steps, or bedrock indicators (e.g., our, smoothing, etc.)	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from gravel to sand upper limit of sand-sized particles silt deposits	
Vegetation indicators (Consider the vegetation up the banks, and into a		ddle of the channel,	Other physical indicators	
Change in vegetation type from Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations Unvegetated system Other observed indicators? Describe: Larrea tridentata-Ambrosia dumosa	Vegetation matted d		Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	
		5	r	

Project ID #: So	da Mountain Solar
	litional information used to support identification of the OHWM? Yes No escribe and attach information to data sheet:
	IWM present at this site? Yes No e rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).
	in slope and changes in soil character evident. Multiple channels with sandy substrate in the gravel in the upland islands.
Additional obse	ervations or notes
Attach an image	ery log of the site.
Image	ery log attached? Yes No If no, explain why not:
	s, or other imagery/sketches, and include descriptions in the table below. raphs in the order that they are taken. Attach imagery and include annotations of features.
lmagery Number	Imagery description
S1-3-1	Upstream
S1-3-2	Downstream
S1-3-3	OHWM

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-coll person shall be subject to any penalty for failing	<u>lections@mail.mil</u> . Responder ng to comply with a collection	nts should be aware that no of information if it does not	otwithstanding any other provision of law, no display a currently valid OMB control number.	
Project ID #: Soda Mountain Solar	Site Name: ATG004		Date and Time: 3/26/25 12:45pm	
Location (lat/long): 35.170713, -116.16202	28	Investigator(s): Antonett	e Gutierrez	
Step 1 Site overview from remote and onling Check boxes for online resources to gage data Climatic data Climatic imagery	geologic maps land use maps Other:	Were there any re Conditions dr winter rainfal		
vegetation and sediment type, size, d channel form, such as bridges, riprap	lensity, and distribution. Make , landslides, rockfalls, etc.	note of natural or human-n	headwater flows from mountains to	
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.				
Geomorphic indicators			Sediment indicators	
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels Vegetation indicators (Consider the vegetat up the banks, and into	imbricated clast bedforms (e.g., etc.) Weathered clast obstacle marks, from the floodplain)	sition (go to veg. tion (go to sed. eposition on bar and other evidence oad indicators (e.g., pools, riffles, steps, ets or bedrock ad indicators (e.g., scour, smoothing, etc.)	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from cobble to sand/gravel upper limit of sand-sized particles silt deposits Other physical indicators	
Change in vegetation type from Change in density of vegetation Exposed roots below intact soil layer X Other vegetation observations Unvegetated system Other observed indicators? Describe: Larrea tridentata-Ambrosia dumo		d down and/or bent	Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	

Project ID #: So	oda Mountain Solar
	litional information used to support identification of the OHWM? Yes No escribe and attach information to data sheet:
	IWM present at this site? Yes No e rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).
	d and bank, change in soil character, shelving, scour and changes in particle size distribution.
Additional obs	ervations or notes
	ery log of the site.
	ery log attached? Yes No If no, explain why not:
	raphs in the order that they are taken. Attach imagery and include annotations of features.
lmagery Number	Imagery description
E-7-1	Upstream
E-7-2	Downstream
E-7-3	OHWM-scour and cut in bank.

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-collect person shall be subject to any penalty for failing			
Project ID #: Soda Mountain Solar Sit	te Name: ATG005		Date and Time: 3/27/25 9:00am
Location (lat/long): 35.170545, -116.187415		Investigator(s): Antonet	te Gutierrez
Step 1 Site overview from remote and online Check boxes for online resources use gage data LiDAR climatic data satellite imagery topographic maps Step 2 Site conditions during field assessme vegetation and sediment type, size, den channel form, such as bridges, riprap, la Disturbed by offroad vehicles. Major	geologic maps geologic maps land use maps Other: nt. First look for changes in sity, and distribution. Make andslides, rockfalls, etc.	Were there any re Desert bajad lacking signing channel shape, deposition note of natural or human-	se and flow conditions from online resources. ecent extreme events (floods or drought)? a. Conditions dry and apparently lificant winter rainfall this year. nal and erosional features, and changes in made disturbances that would affect flow and
Make a slash in boxes next to in	some indicators used to ide dicators that are helpful in i n should be changed from s ion of the OHWM.	entify the location of the Oldentifying the OHWM. Afte slashes to x's. Note, it is no	HWM may be just below or above the OHWM. er the initial assessment, those indicators of necessary to mark indicators that are present ions, and attach a photo log. Sediment indicators
X Break in slope	X Channel bar		Soil development
X on the bank X undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	X shelving (berms, X unvegetated vegetation trans indicators) X sediment transit, indicators) upper limit of de X Instream bedforms a bedload transport e deposition bedloa imbricated clasts X bedforms (e.g., j etc.) Weathered clast X erosional bedloa obstacle marks,	ition (go to veg. ion (go to sed. position on bar and other vidence sad indicators (e.g., s, gravel sheets, etc.) pools, riffles, steps, ts or bedrock ad indicators (e.g., scour, smoothing, etc.)	X Changes in character of soil X Mudcracks X Changes in particle-sized distribution X transition from cobble to sand upper limit of sand-sized particles silt deposits
Vegetation indicators (Consider the vegetation up the banks, and into the		middle of the channel,	Other physical indicators
Change in vegetation type from Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations Unvegetated Other observed indicators? Describe:	X Vegetation matter	d down and/or bent	Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining
	a, and Ambrosia sals	sola on the banks ar	nd on the islands within the channels.

Project ID #: Soc	da Mountain Solar		
	Step 4 Was additional information used to support identification of the OHWM? Yes No		
If yes, de	scribe and attach information to data sheet:		
	WM present at this site? Yes No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).		
	and bank for the channels. Change in soil type from upland to streambed. Scouring, shelving, and shout the system.		
F			
Additional obse	rvations or notes		
Attach an imager	ry log of the site.		
	ry log attached? Yes No If no, explain why not:		
List photographs	, or other imagery/sketches, and include descriptions in the table below.		
Number photogra	aphs in the order that they are taken. Attach imagery and include annotations of features.		
lmagery Number	Imagery description		
T-10	Upstream main channels		
T-11	Downstream braided channels		
T-12	OHWM shelving and break in slope, change in soil, and sediment distribution.		

U.S. Army Corps of Engineers (USACE) RAPID ORDINARY HIGH WATER MARK

(OHWM) FIELD IDENTIFICATION DATA SHEET The proponent agency is Headquarters USACE CECW-COR.

OMB No. 0710-0024 Expires: 2027-09-30

Form Approved -

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-collect person shall be subject to any penalty for failing					
Project ID #: Soda Mountain Solar Site Name: EK001			Date and Time: 3/25/25 1300		
Location (lat/long): 35.149214, -116.175823		Investigator(s): EK	estigator(s): EK		
Step 1 Site overview from remote and online resources. Check boxes for online resources used to evaluate site: gage data LiDAR geologic maps climatic data satellite imagery land use maps aerial photos topographic maps Other:		Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? Alluvial fan in open desert. Conditions dry and apparently lacking significant winter rainfall this year			
Step 2 Site conditions during field assessment. First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or human-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls, etc. Some limited OHV disturbance in the area, but not at the immediate location of this transect					
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.					
Geomorphic indicators			Sediment indicators		
X Break in slope X on the bank undercut bank valley bottom Other: Shelving shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	A jimbricated clasts bedforms (e.g., p etc.) Weathered clasts erosional bedloa	on (go to veg. on (go to sed. cosition on bar and other vidence ad indicators (e.g., s, gravel sheets, etc.) cools, riffles, steps,	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from gravel to Sand upper limit of sand-sized particles silt deposits		
Vegetation indicators (Consider the vegetation			Other physical indicators		
up the banks, and into to the second	s to non		Other physical indicators Sediment deposited on vegetation or structures X Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining		

Project ID #: So	da Mountain Solar
	itional information used to support identification of the OHWM? Yes No
If yes, de	escribe and attach information to data sheet:
	WM present at this site? Yes No
	rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).
	lear break in slope at the OHWM and an abrupt change in particle size distribution from gravel and re the OHWM to sand below the OHWM
	e the Offwivi to saile below the Offwivi
Additional obse	ervations or notes
Attack on to one	
	ery log of the site. ery log attached? Yes No If no, explain why not:
	s, or other imagery/sketches, and include descriptions in the table below.
	raphs in the order that they are taken. Attach imagery and include annotations of features.
Imagery	Imagery description
Number	
S2-5-1	Upstream from sample point
S2-5-2	Downstream from sample point
S2-5-3	OHWM at sample point
Ī	

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

person shall be subject to any penalty for failing to			
Project ID #: Soda Mountain Solar Site	e Name: EK002		Date and Time: 3/25/25 1530
Location (lat/long): 35.158846, -116.172770		Investigator(s): EK	
Step 1 Site overview from remote and online recheck boxes for online resources used gage data LiDAR climatic data satellite imagery aerial photos topographic maps Step 2 Site conditions during field assessment vegetation and sediment type, size, densichannel form, such as bridges, riprap, land Low levels of OHV disturbance in the	geologic maps land use maps Other: t. First look for changes in ity, and distribution. Make additionable and solders, rockfalls, etc.	Were there any rec Alluvial fan in o moderately sized very little rain h	e and flow conditions from online resources. cent extreme events (floods or drought)? open desert. Sample point located within a d ephemeral stream. There was apparently ere in the 2024/2025 winter season al and erosional features, and changes in lade disturbances that would affect flow and
Make a slash in boxes next to indi	ome indicators used to idel icators that are helpful in ic should be changed from sl on of the OHWM.	ntify the location of the OH\ dentifying the OHWM. After lashes to x's. Note, it is not	WM may be just below or above the OHWM. The initial assessment, those indicators necessary to mark indicators that are present ons, and attach a photo log.
Geomorphic indicators			Sediment indicators
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	imbricated clasts bedforms (e.g., p etc.) Weathered clasts	ition (go to veg. ion (go to sed. position on bar and other vidence ad indicators (e.g., s, gravel sheets, etc.) pools, riffles, steps,	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from gravel to sand upper limit of sand-sized particles silt deposits
Vegetation indicators (Consider the vegetation to up the banks, and into the X Change in vegetation type from Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations	e floodplain) L to Ch	eese bush I down and/or bent	Other physical indicators Sediment deposited on vegetation or structures X Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining
Other observed indicators? Describe:			

Project ID #: Soc	da Mountain Solar		
Step 4 Was additional information used to support identification of the OHWM? Yes Yes If yes, describe and attach information to data sheet:			
	NM present at this site? Yes No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).		
steep. On riv	ear and obvious break in slope and bed & banks. The bank is about 1.5 ft tall on river left and ver right the slope is more gentle and about 3 ft. tall. There is a change in particle size distribution and gravel to sand at the OHWM.		
Additional obse	rvations or notes		
Attach an imager	ay log of the cite		
_	y log attached? Yes No If no, explain why not:		
	, or other imagery/sketches, and include descriptions in the table below.		
Number photogra	aphs in the order that they are taken. Attach imagery and include annotations of features.		
lmagery Number	Imagery description		
Other-8	Upstream from sample point		
Other-9	Downstream from sample point		
Other-10	OHWM on river left at sample point		

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

whs.mc-alex.esd.mbx.dd-dod-information-collect person shall be subject to any penalty for failing t					
Project ID #: Soda Mountain Solar Site Name: EK003			Date and Time: 3/26/25 0910		
Location (lat/long): 35.162635, -116.165457			Investigator(s): EK		
Step 1 Site overview from remote and online in Check boxes for online resources used gage data LiDAR climatic data satellite imagery aerial photos topographic maps	d to evaluate site: geologic maps land use maps Other:		Were there any rece Alluvial fan in very little rainf winter season	and flow conditions from online resources. In extreme events (floods or drought)? open desert. There was apparently all at this site in the 2024/2025	
channel form, such as bridges, riprap, lar This site is minimally disturbed upp sample point.	sity, and distribution. Make r ndslides, rockfalls, etc. per alluvial fan. There	note of r	natural or human-mada few OHV tire	de disturbances that would affect flow and	
Step 3 Mark the boxes next to the indicators used to help identify the location of the OHWM. OHWM is at a transition point, therefore some indicators used to identify the location of the OHWM may be just below or above the OHWM. Make a slash in boxes next to indicators that are helpful in identifying the OHWM. After the initial assessment, those indicators identified at the OHWM elevation should be changed from slashes to x's. Note, it is not necessary to mark indicators that are present but do not help inform identification of the OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and attach a photo log.					
Geomorphic indicators				Sediment indicators	
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	channel bar shelving (berms) unvegetated vegetation transition indicators) sediment transition indicators) upper limit of dep Instream bedforms a bedload transport ev deposition bedload imbricated clasts, bedforms (e.g., petc.) Weathered clasts erosional bedload obstacle marks, s	tion (go to oosition and other idence ad indica , gravel oools, rif s or bed d indica	o sed. on bar er ators (e.g., sheets, etc.) ffles, steps, lrock tors (e.g.,	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from gravel to sand upper limit of sand-sized particles silt deposits	
Vegetation indicators (Consider the vegetation	•	niddle c	of the channel,	Other physical indicators	
Up the banks, and into the X Change in vegetation type from Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations Other observed indicators? Describe:	· ,	down a	ed [Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	

Project ID #: Soc	da Mountain Solar	
Step 4 Was additional information used to support identification of the OHWM? Yes Yes If yes, describe and attach information to data sheet:		
	NM present at this site? Yes Mo rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).	
This is a sma	all unvegetated stream channel in the upper portion of an alluvial fan. The channel is about 1 ft.	
	n OHWMs at the sample point. There is a distinct break in slope at the OHWM and a clear change	
in particle si	ze distribution from coarse and fine gravel to sand at the OHWM.	
Additional obse	rvations or notes	
Attach an imager	y log of the site.	
	y log attached? Yes No If no, explain why not:	
	, or other imagery/sketches, and include descriptions in the table below. aphs in the order that they are taken. Attach imagery and include annotations of features.	
Imagery	april in the order that they are taken. Attach integery and module annotations of leadings.	
Number	Imagery description	
E-11-2	Upstream from sample point	
E-11-3	Downstream from sample point	
E-11-4	OHWM at sample point	

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.				
Project ID #: Soda Mountain Solar Site	e Name: EK004		Date and Time: 3/26/25 1330	
Location (lat/long): 35.165347, -116.168754				
Step 1 Site overview from remote and online resources. Check boxes for online resources used to evaluate site: gage data LiDAR geologic maps climatic data satellite imagery land use maps aerial photos topographic maps Other:		Were there any re Mid slope on Apparently v	Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? Mid slope on an alluvial fan in open desert. Apparently very little rainfall during the 2024/2025 winter season	
Step 2 Site conditions during field assessmen vegetation and sediment type, size, dens channel form, such as bridges, riprap, lan Minimally disturbed open desert wit	ity, and distribution. Make ndslides, rockfalls, etc.	note of natural or human-n	nal and erosional features, and changes in nade disturbances that would affect flow and	
Make a slash in boxes next to ind	ome indicators used to ide icators that are helpful in ic should be changed from son of the OHWM.	ntify the location of the OH dentifying the OHWM. Afte clashes to x's. Note, it is no	IWM may be just below or above the OHWM. r the initial assessment, those indicators t necessary to mark indicators that are present ons, and attach a photo log.	
Geomorphic indicators			Sediment indicators	
X on the bank undercut bank valley bottom Other: Shelving shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	imbricated clasts bedforms (e.g., µ etc.) Weathered clast erosional bedloa	ition (go to veg. ion (go to sed. position on bar and other vidence had indicators (e.g., s, gravel sheets, etc.) pools, riffles, steps,	Soil development Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from gravel to sand upper limit of sand-sized particles silt deposits	
Change in density of vegetation Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations	s to un	wegetatedb I down and/or bent	Other physical indicators Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	
Other observed indicators? Describe:				

Project ID #: Soc	da Mountain Solar		
Step 4 Was additional information used to support identification of the OHWM? Yes No			
If yes, de	scribe and attach information to data sheet:		
	NM present at this site? Yes No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).		
Small alluvial channel in the middle of a bajada. The channel is about 1 ft wide between OHWM with a cut bank about 4" deep on one side and a gradual slope on the other. There is a distinct change in particle size distribution from gravel and cobble above the OHWM to sand at and below the OHWM			
Additional obse	rvations or notes		
Attach an imager			
	y log attached? Yes No If no, explain why not:, or other imagery/sketches, and include descriptions in the table below.		
	aphs in the order that they are taken. Attach imagery and include annotations of features.		
Imagery Number	Imagery description		
E-9-1	Downstream from sample point		
E-9-2	Upstream from sample point		
E-9-3	OHWM at sample point		

U.S. Army Corps of Engineers (USACE) RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET The proponent agency is Headquarters USACE CECW-COR.

Form Approved -OMB No. 0710-0024 Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

whs.mc-alex.esd.mbx.dd-dod-information-colle	ections@mail.mil. Responder	its should be aware that n	otwithstanding any other provision of law, no ot display a currently valid OMB control number.	
Project ID #: Soda Mountain Solar	Site Name: KG001	Date and Time: 3/26/25 9:51am		
Location (lat/long): 35.156993, -116.185206		Investigator(s): Kyle Gunther		
Step 1 Site overview from remote and onlin Check boxes for online resources u gage data LiDAR climatic data satellite imagery aerial photos topographic maps	sed to evaluate site: geologic maps land use maps	Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? Open desert in a regional drought. Conditions dry and apparently lacking significant winter rainfall this year.		
channel form, such as bridges, riprap, Interstate 15 has obstructed natural flow from r Cobble banks to sandy floodplain. Upland vego dumosa.	ensity, and distribution. Make landslides, rockfalls, etc. nountains. Upstream flow is n etation = Larrea tridentata -An	note of natural or human- low funneled to culverts or abrosia dumosa Shrubland	made disturbances that would affect flow and	
Make a slash in boxes next to	e some indicators used to ide indicators that are helpful in i ion should be changed from sation of the OHWM.	entify the location of the Oldentifying the OHWM. Aft slashes to x's. Note, it is not	HWM may be just below or above the OHWM. er the initial assessment, those indicators ot necessary to mark indicators that are present tions, and attach a photo log.	
Geomorphic indicators			Sediment indicators	
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels Vegetation indicators (Consider the vegetati	imbricated clast. bedforms (e.g., etc.) Weathered class erosional bedlog obstacle marks,	cition (go to veg. cion (go to sed. cion (e.g., s, gravel sheets, etc.) pools, riffles, steps, ts or bedrock ad indicators (e.g., scour, smoothing, etc.)	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from cobble to sand/gravel upper limit of sand-sized particles silt deposits	
X Change in vegetation type from X Change in density of vegetation Exposed roots below intact soil layer X Other vegetation observations Old dry annuals scattered in f	0 the floodplain) 0 to La	rtri-Ambdum d down and/or bent	Sediment deposited on vegetation or structures Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	
Other observed indicators? Describe:				

Project ID #: Se	oda Mountain Solar
	ditional information used to support identification of the OHWM? Yes No escribe and attach information to data sheet:
	HWM present at this site? Xes No e rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).
Change in s	soil texture and particle size, presence of bed and bank, change in vegetation type and cover.
Additional obs	servations or notes
Attach an imag	owy low of the cite
	ery log of the site. ery log attached? X Yes No If no, explain why not:
	is, or other imagery/sketches, and include descriptions in the table below.
Number photog	raphs in the order that they are taken. Attach imagery and include annotations of features.
lmagery Number	Imagery description
S1-5-2	Upstream view
S1-5-3	Downstream view
S1-5-4	OHWM and TOB view

ENG FORM 6250, SEP 2024 Page 2 of 4

U.S. Army Corps of Engineers (USACE) RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

whs.mc-alex.esd.mbx.dd-dod-information-col person shall be subject to any penalty for faili	<u>lections@mail.mil</u> . Responder ng to comply with a collection	nts should be a of information	aware that notwithstanding any oth n if it does not display a currently ve	ner provision of law, no alid OMB control number.
Project ID #: Soda Mountain Solar	Site Name: KG002		Date and Time:	3/26/25 1:30pm
Location (lat/long): 35.170851, -116.169424				
vegetation and sediment type, size, on channel form, such as bridges, riprap	geologic maps land use maps Other: ment. First look for changes in density, and distribution. Make of landslides, rockfalls, etc.	Ope dry rain n channel sha	Describe land use and flow conditions from online resource Were there any recent extreme events (floods or drought)? Open desert in a regional drought. Conditions dry and apparently lacking significant winter rainfall this year. Describe land use and flow conditions from online resource with significant winter rainfall this year. Describe land use and flow conditions from online resource with significant winter rainfall this year.	
across a paved road (Arrowhead Trail	l) and converge downstre	eam of the r	oad into a larger, more defin	ed wash. Litter present.
	ore some indicators used to ide o indicators that are helpful in it tion should be changed from s cation of the OHWM.	entify the locatidentifying the slashes to x's.	tion of the OHWM may be just beloe OHWM. After the initial assessme . Note, it is not necessary to mark i	ent, those indicators ndicators that are present
Geomorphic indicators			Sediment indicate	ors
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels Vegetation indicators (Consider the vegetate up the banks, and interpretation type from	o the floodplain)	eposition (go to vertion (go to sed eposition on based and other epod indicators is, gravel shee epools, riffles, ets or bedrock and indicators scour, smoot	X Changes in pa X transition upper lim. si (e.g., ets.) silt depose ets, etc.) steps, (e.g., thing, etc.) e channel, Other physical inc.	haracter of soil Inticle-sized distribution from silt/sand ^{to} sand/gravel it of sand-sized particles its
Change in vegetation type from Change in density of vegetation Exposed roots below intact soil laye Other vegetation observations Other observed indicators? Describe:		artri-Ambdum	structures Wracking/pre	esence of organic litter large wood sturbed or washed away

Project ID #: Soc	da Mountain Solar	
Step 4 Was additional information used to support identification of the OHWM? Yes No		
If yes, describe and attach information to data sheet:		
-	WM present at this site? Yes No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).	
	silty floodplain present (unvegetated), then transitions to an obvious bank at the OHWM that is and has sandy-gravel soils.	
8		
	ervations or notes	
Road has lik	ely created this convergence point from the upstream braided channels on the bajada.	
Attach an imager	y log of the site.	
	ry log attached? Yes No If no, explain why not:	
List photographs	, or other imagery/sketches, and include descriptions in the table below.	
Number photogra	aphs in the order that they are taken. Attach imagery and include annotations of features.	
lmagery Number	Imagery description	
E-6-2	Downstream	
E-6-3	Upstream	
E-6-4	OHWM and TOB	

ENG FORM 6250, SEP 2024 Page 2 of 4

U.S. Army Corps of Engineers (USACE) RAPID ORDINARY HIGH WATER MARK (OHWM) FIELD IDENTIFICATION DATA SHEET

The proponent agency is Headquarters USACE CECW-COR.

Form Approved OMB No. 0710-0024
Expires: 2027-09-30

The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0024, is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

wns.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.				
Project ID #: Soda Mountain Solar Site N	lame: KG003		Date and Time: 3/26/25 2:50pm	
Location (lat/long): 35.170590, -116.172039 Investigator(s): Kyle Gunther				
Step 1 Site overview from remote and online resources. Check boxes for online resources used to evaluate site: gage data LiDAR geologic maps climatic data satellite imagery land use maps aerial photos topographic maps Other:		Were there any re Open desert i dry and appa	Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? Open desert in a regional drought. Conditions dry and apparently lacking significant winter rainfall this year.	
Step 2 Site conditions during field assessment. vegetation and sediment type, size, density channel form, such as bridges, riprap, lands Flat sandy floodplain (unvegetated). Cupland vegetation consists of Larrea to	, and distribution. Make slides, rockfalls, etc. ${ m Dbvious\ banks\ (\sim 1)}$	note of natural or human-r foot tall) made up	of sandy gravel and some cobble.	
Make a slash in boxes next to indica	ne indicators used to ide ators that are helpful in ic nould be changed from sl of the OHWM.	ntify the location of the OH dentifying the OHWM. Afte lashes to x's. Note, it is no	HWM may be just below or above the OHWM. For the initial assessment, those indicators of necessary to mark indicators that are present the initial assessment, and attach a photo log.	
Geomorphic indicators			Sediment indicators	
X Break in slope X on the bank undercut bank valley bottom Other: X Shelving X shelf at top of bank natural levee human-made berms or levees other berms: Secondary channels	imbricated clasts bedforms (e.g., petc.) Weathered clasts X erosional bedloa obstacle marks,	on (go to veg. on (go to sed. cosition on bar and other vidence ad indicators (e.g., s, gravel sheets, etc.) cools, riffles, steps, s or bedrock d indicators (e.g., scour, smoothing, etc.)	Soil development X Changes in character of soil Mudcracks X Changes in particle-sized distribution X transition from sand to gravel upper limit of sand-sized particles silt deposits	
Vegetation indicators (Consider the vegetation tra up the banks, and into the fi X Change in vegetation type from X Change in density of vegetation Exposed roots below intact soil layer Other vegetation observations	0 to Lar	rtri-Ambdum	Other physical indicators X Sediment deposited on vegetation or structures X Wracking/presence of organic litter Presence of large wood Leaf litter disturbed or washed away Water staining	
Other observed indicators? Describe:				

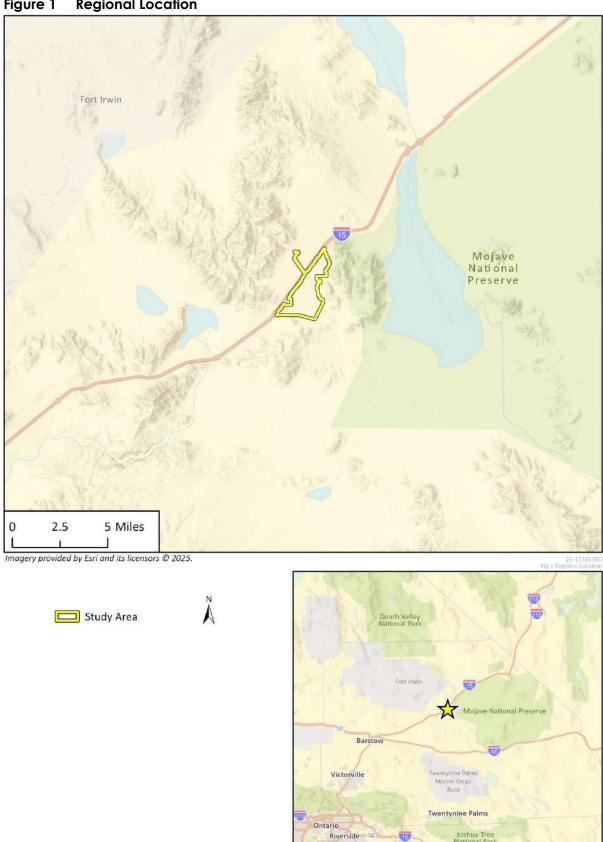
Project ID #: Soc	da Mountain Solar	
Step 4 Was additional information used to support identification of the OHWM? Yes No If yes, describe and attach information to data sheet:		
-	WM present at this site? Yes No No rationale for location of OHWM or lack thereof by describing any observed indicators (at, above, and/or below the OHWM location).	
	tated floodplain below OHWM (sandy). Break in slope at OHWM. Transition from sloped to flat change in sediment to gravel, and vegetated.	
Additional obse	rvations or notes	
Attach an imager		
	ry log attached? Yes No If no, explain why not:	
	, or other imagery/sketches, and include descriptions in the table below. aphs in the order that they are taken. Attach imagery and include annotations of features.	
Imagery Number	Imagery description	
E-5-1	Downstream	
E-5-2	Upstream	
E-5-3	OHWM and TOB	

ENG FORM 6250, SEP 2024 Page 2 of 4

Appendix D

Figures

Figure 1 **Regional Location**



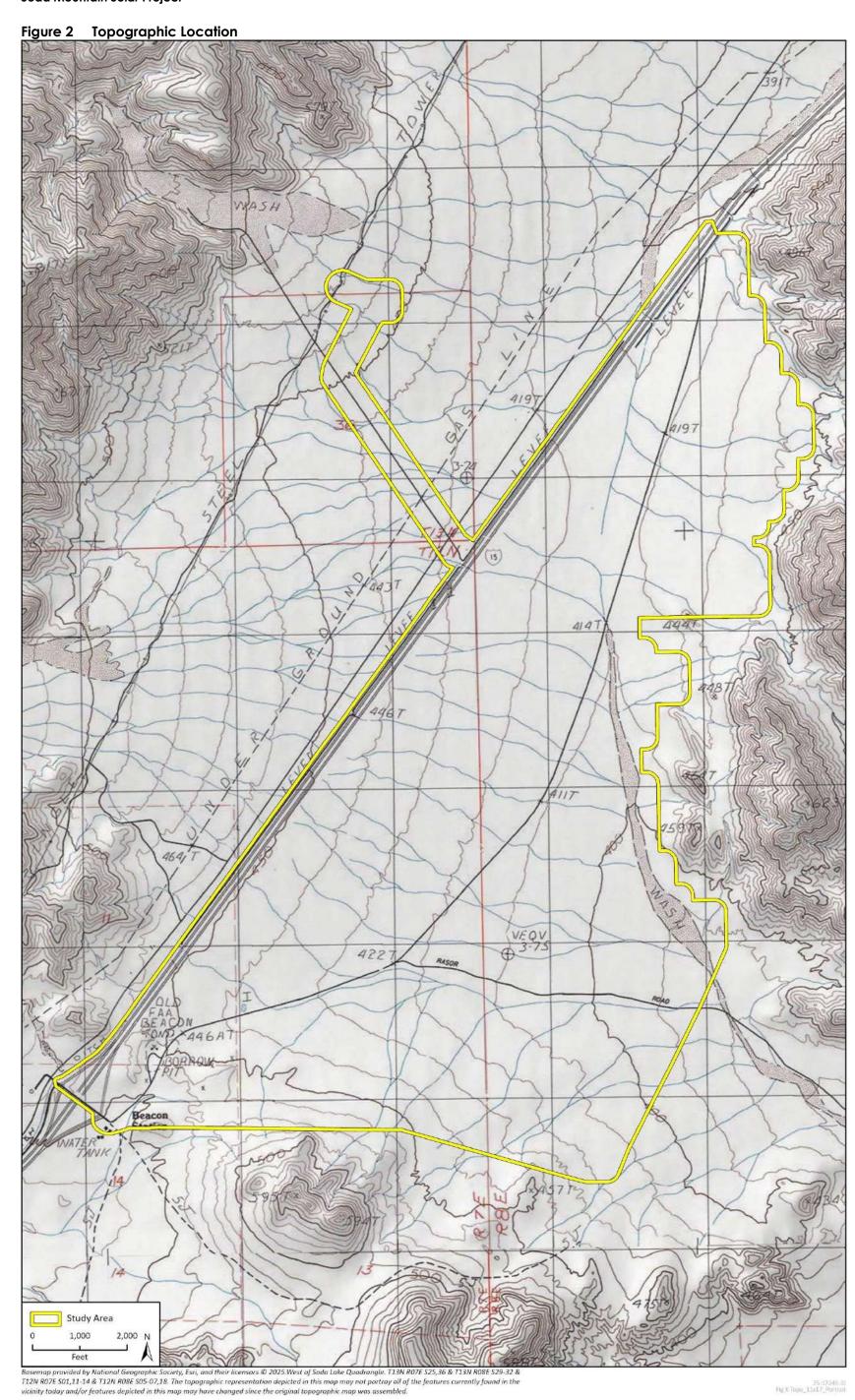
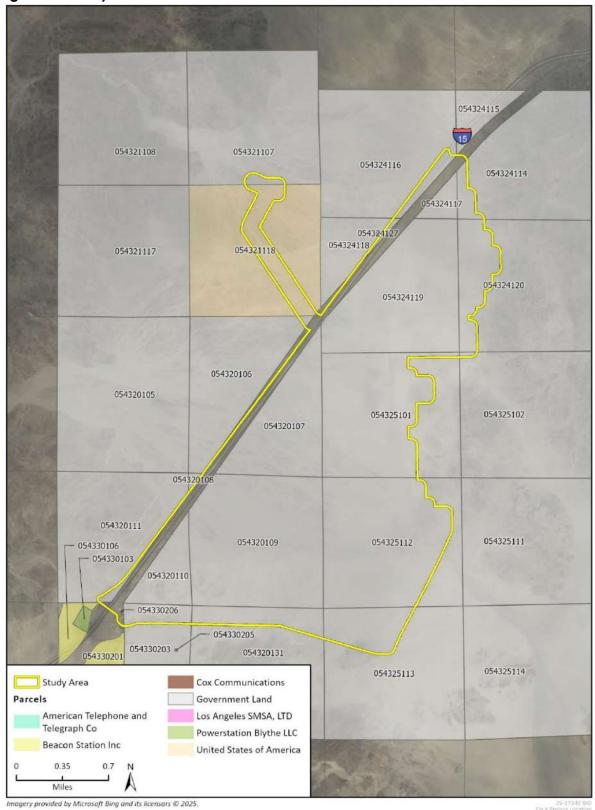
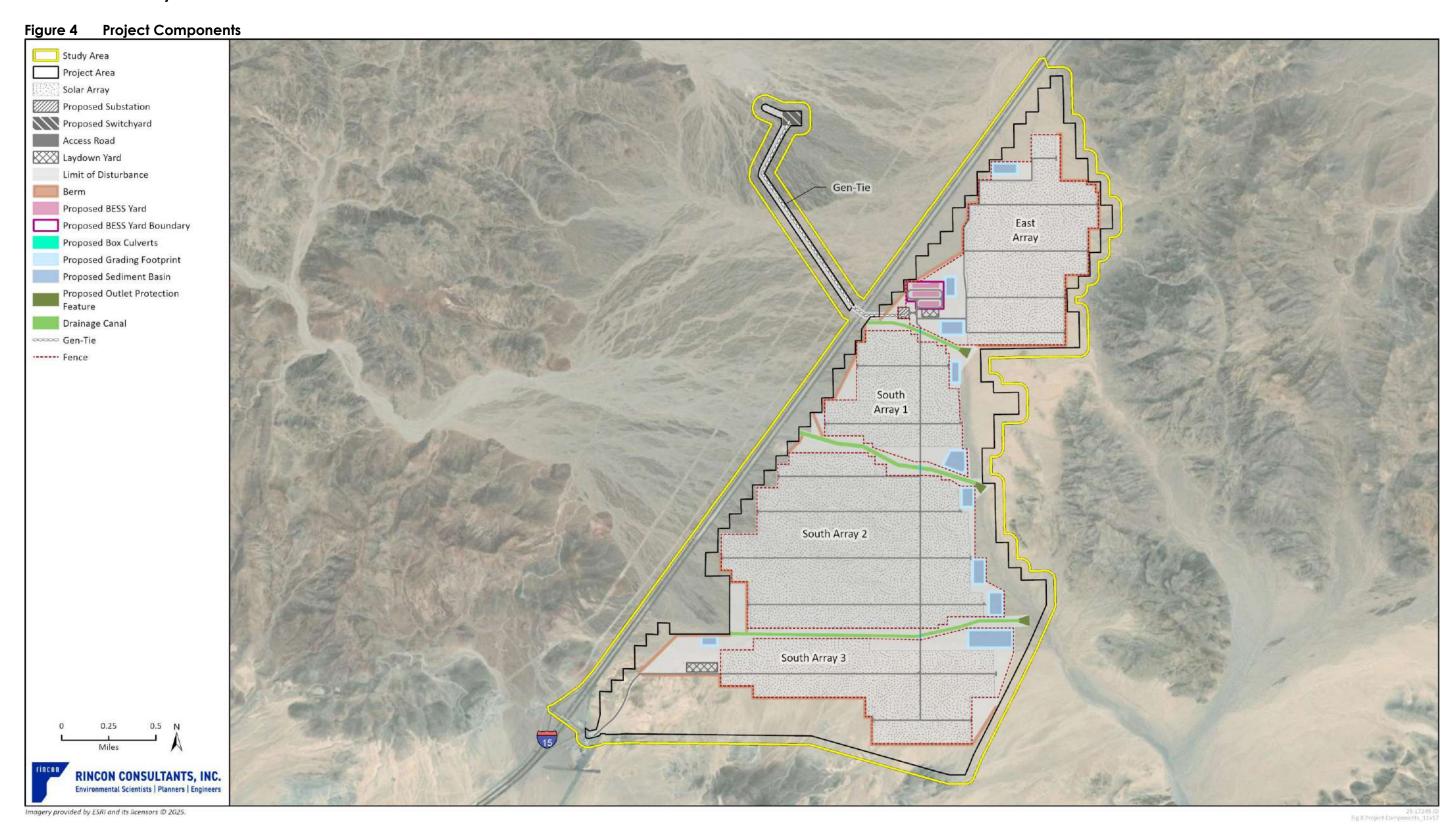
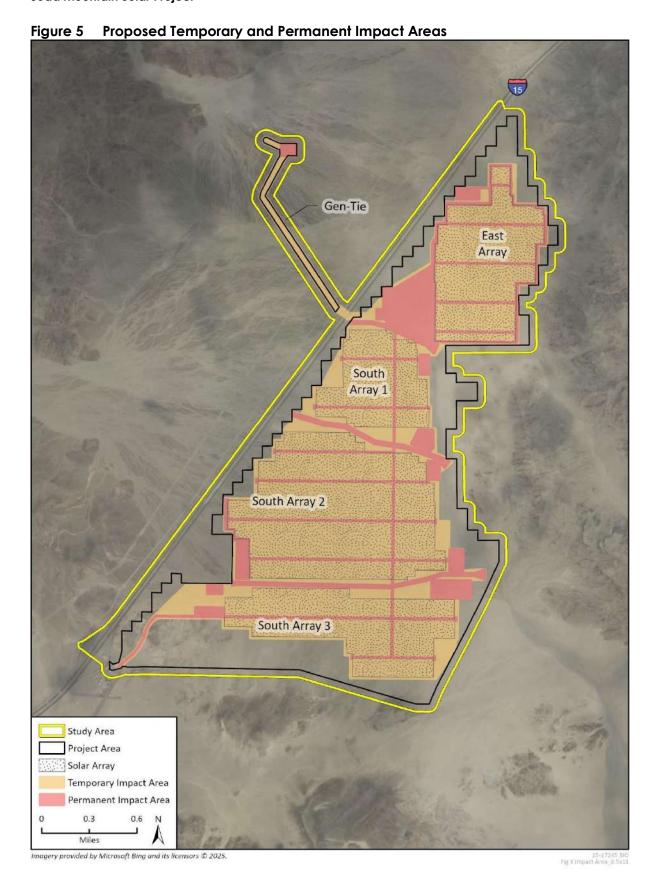


Figure 3 Study Area Location









Mojave River Wash-Mojave River

Miles

Imagery provided by Microsoft Bing and its licensors © 2025. Additional data provided by USGS, 2024.

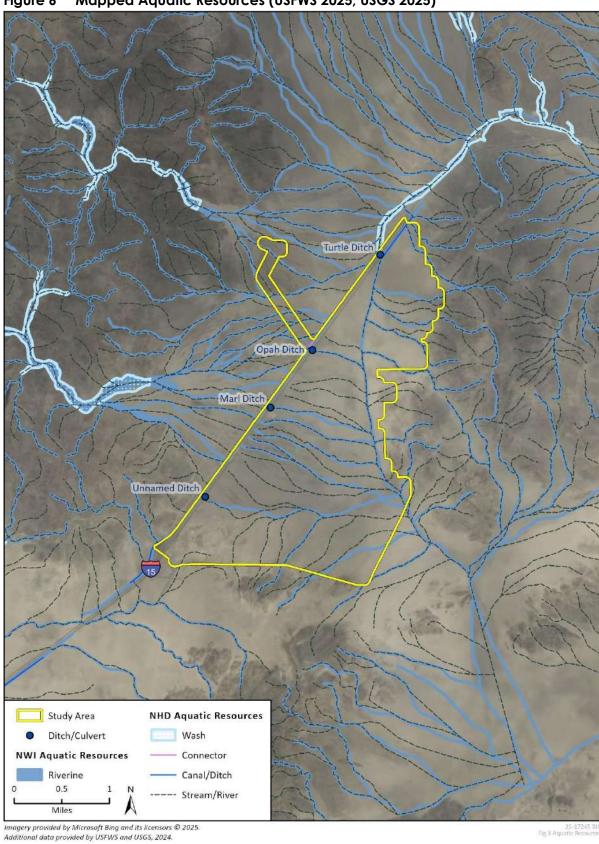
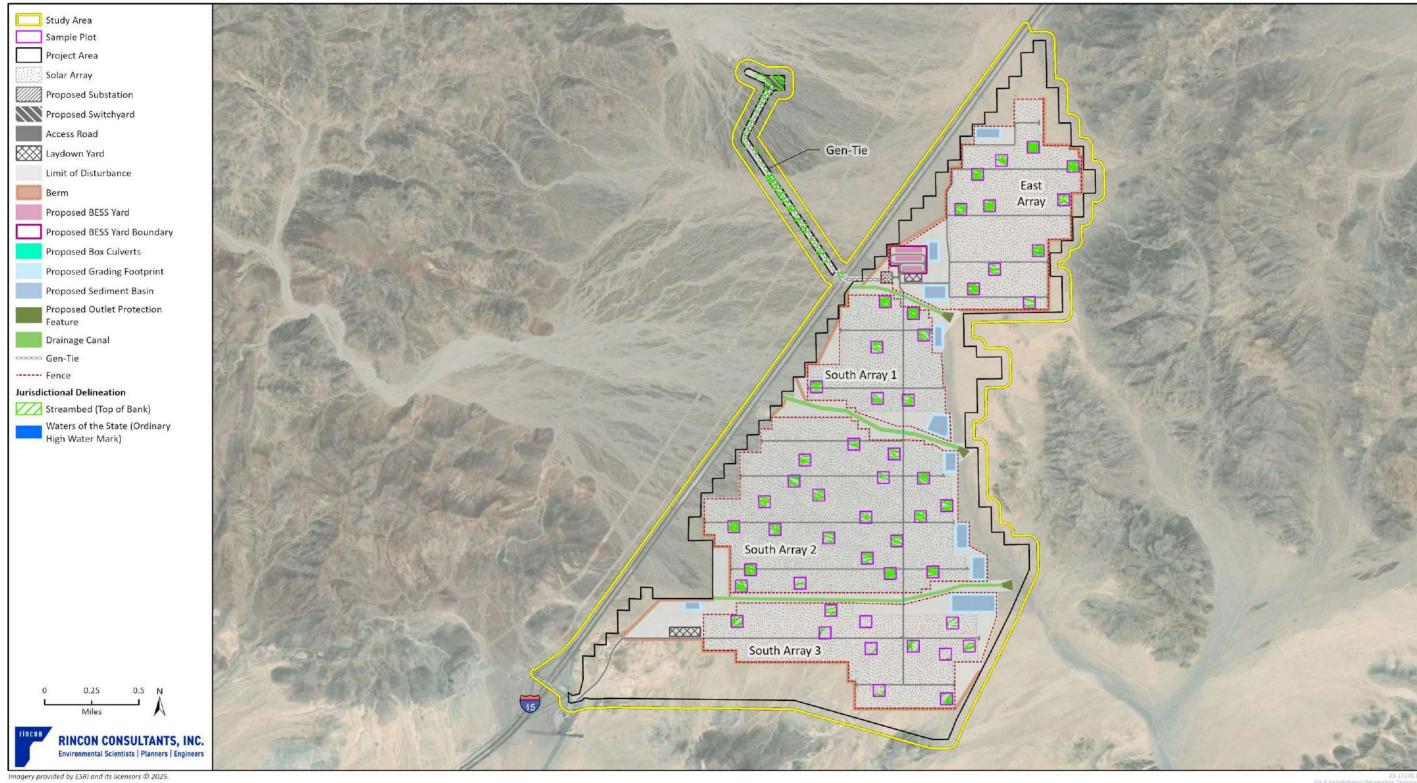


Figure 6 Mapped Aquatic Resources (USFWS 2025, USGS 2025)

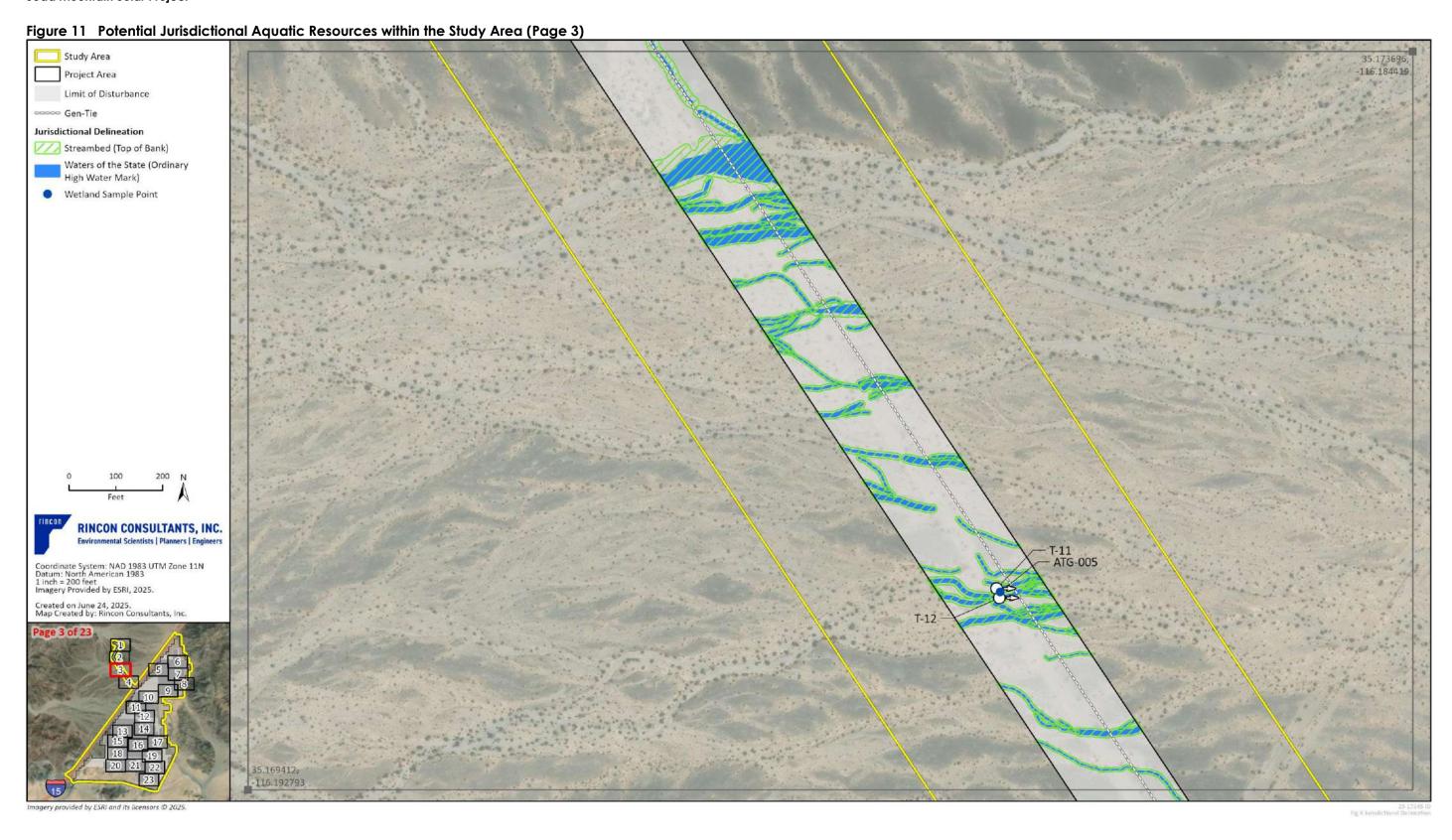
Figure 8 Project Components and Field Delineation Results (Overview)



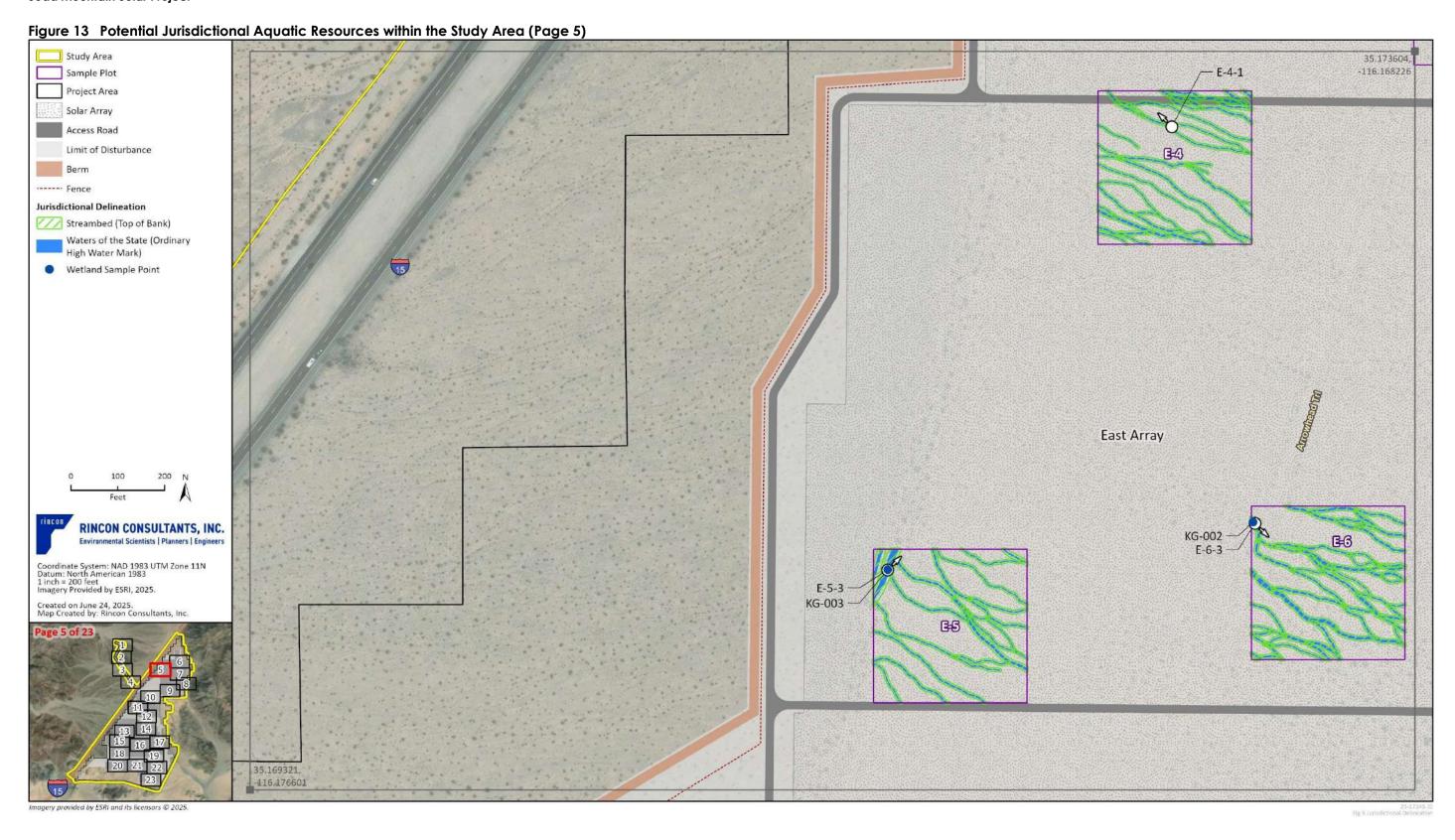
D-1





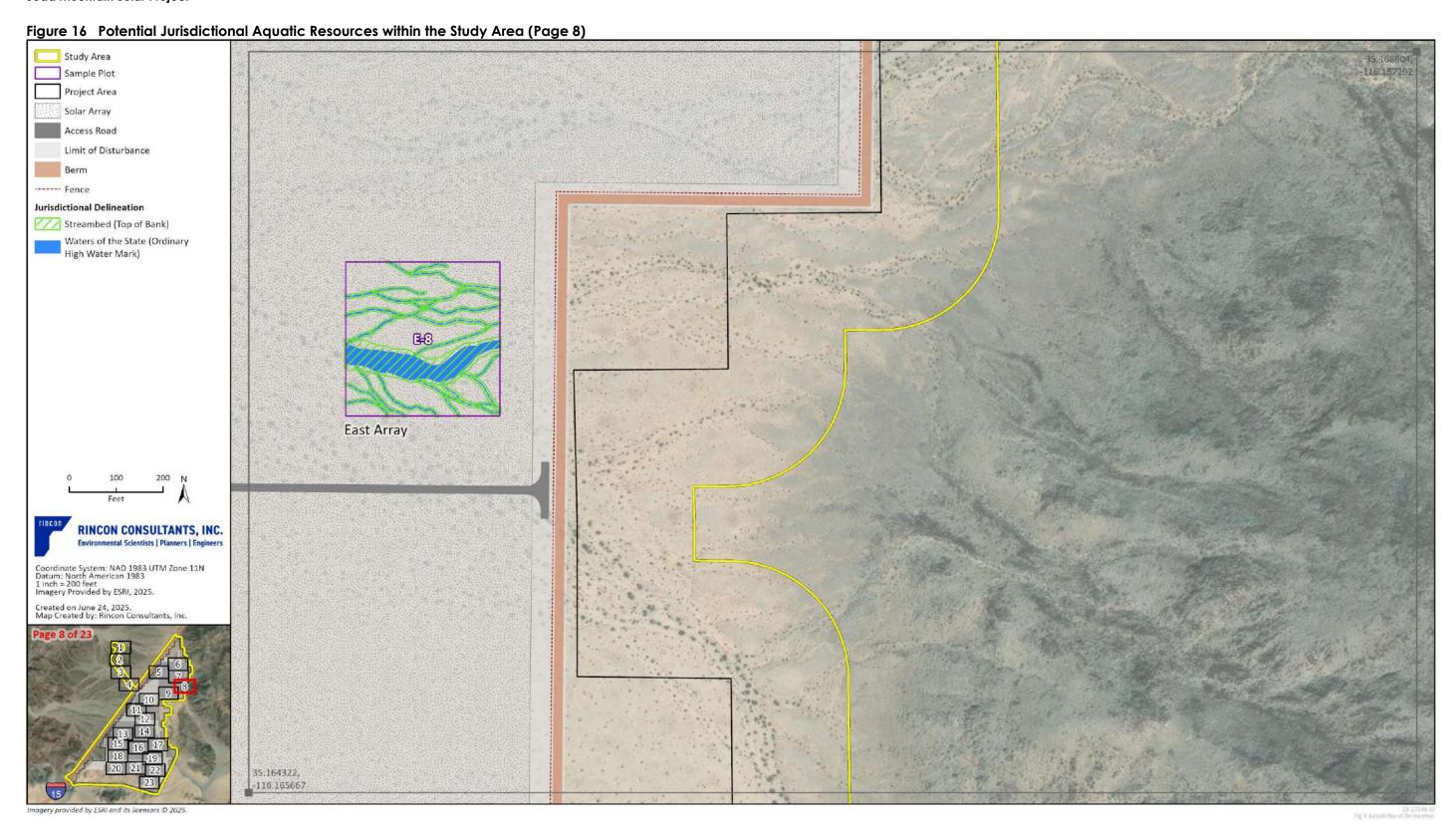


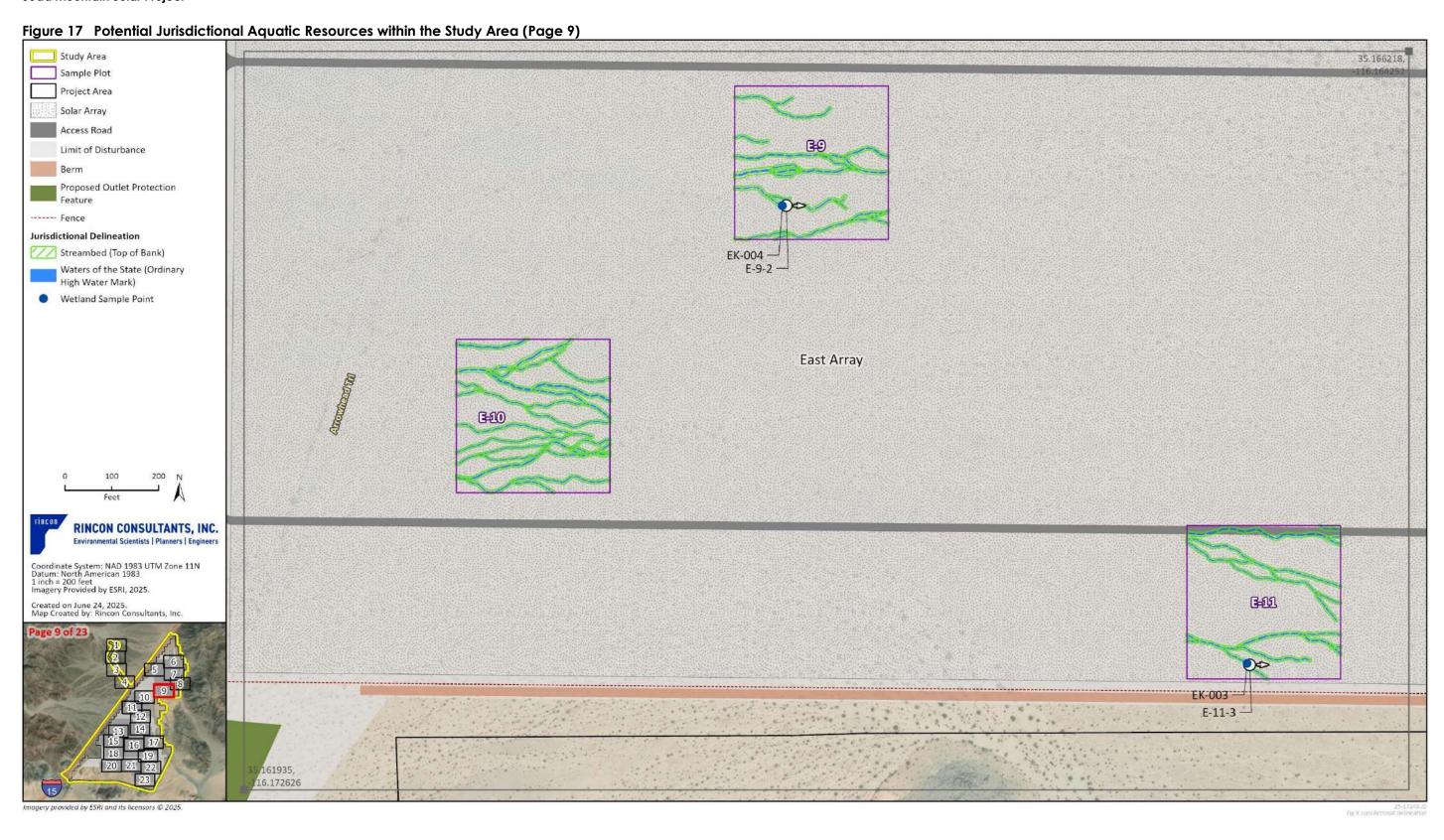




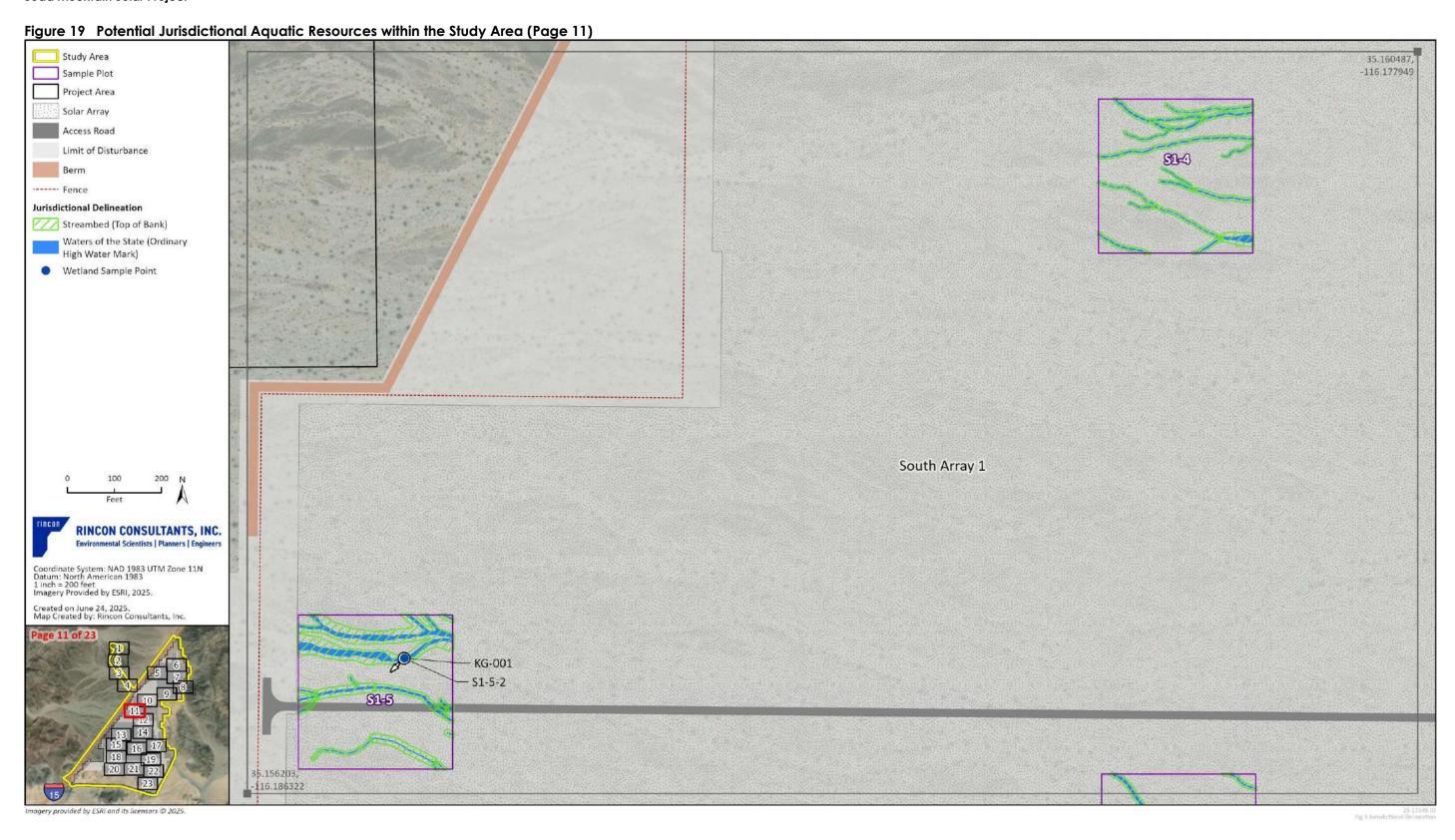


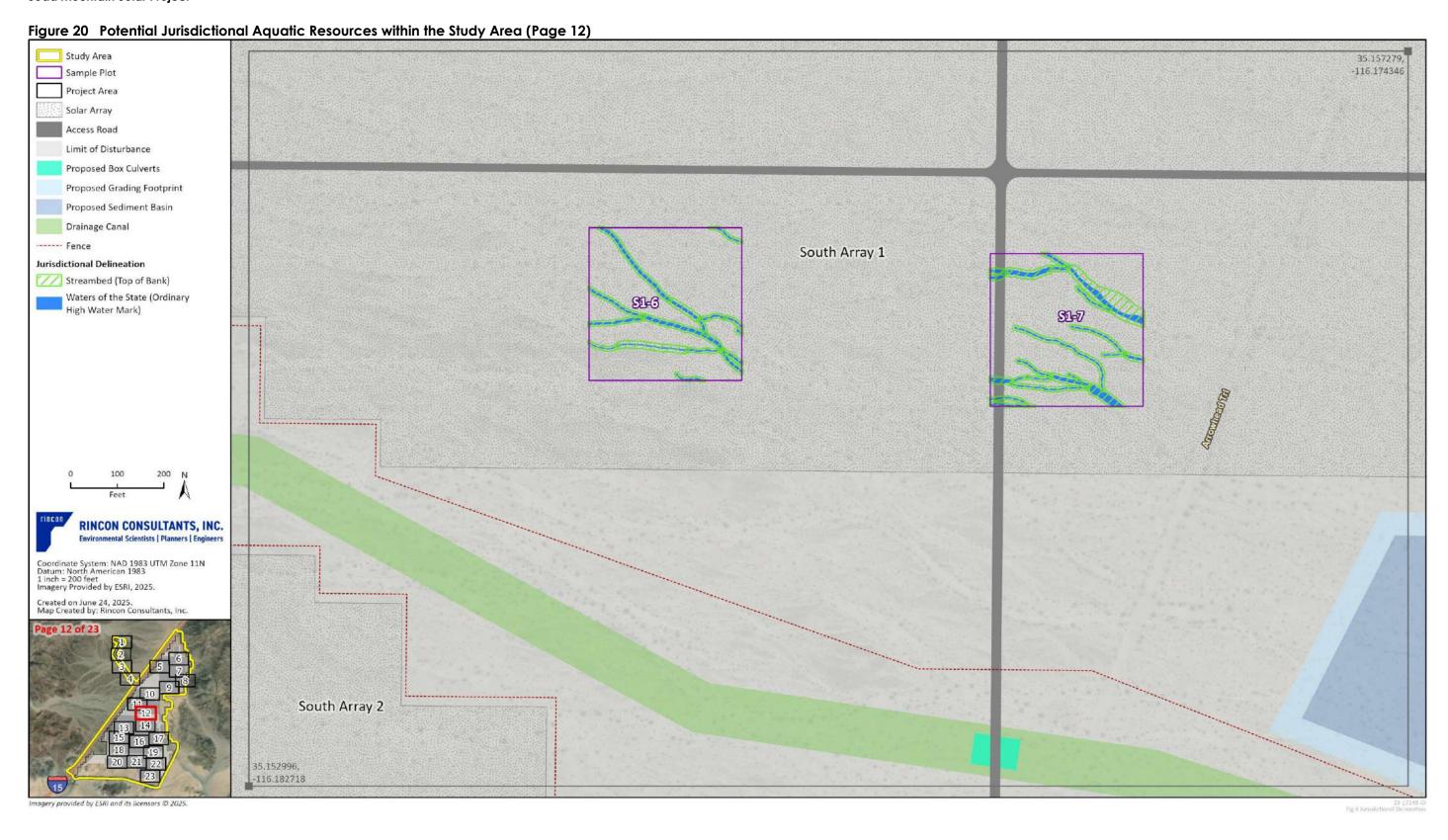


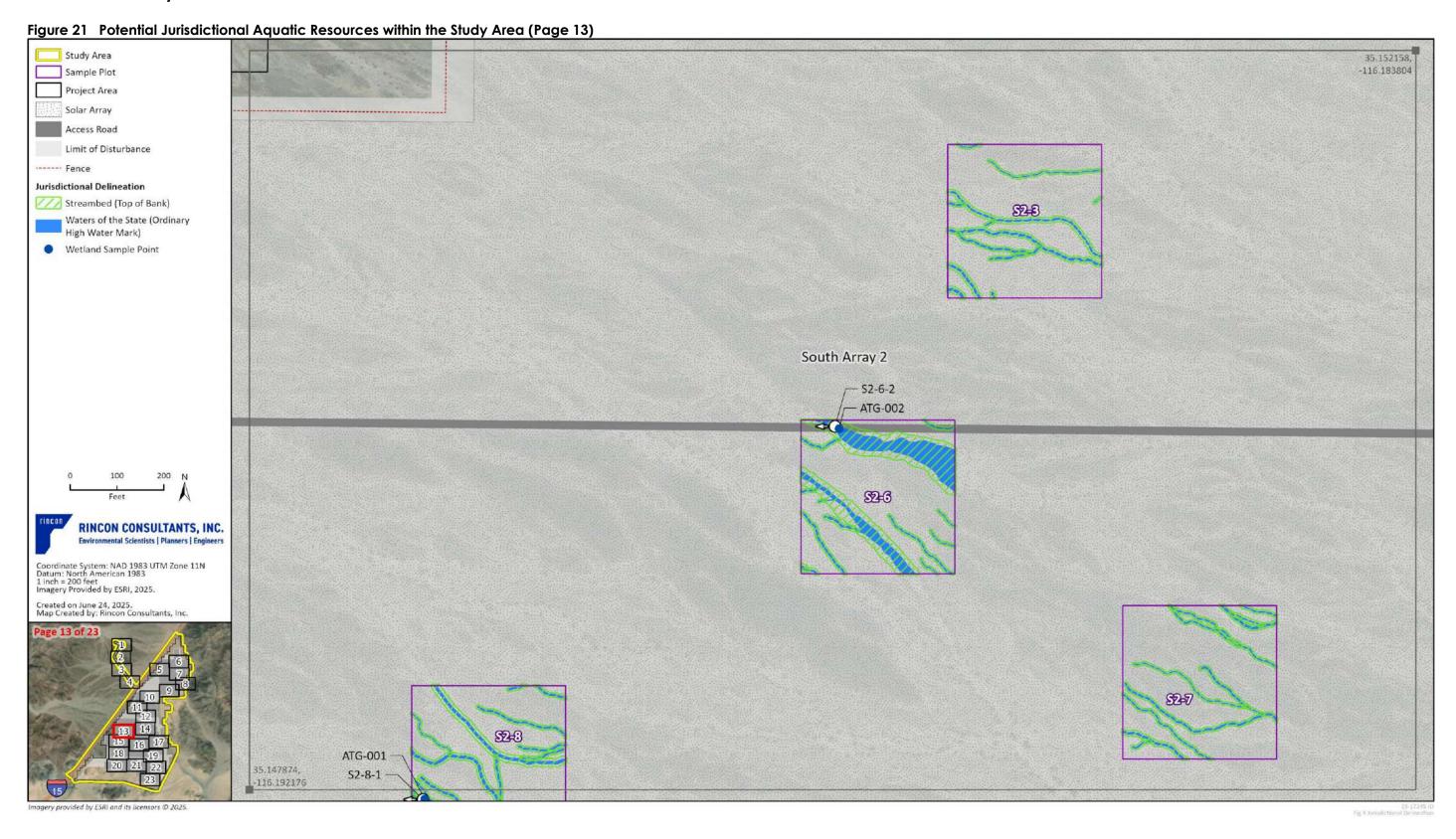


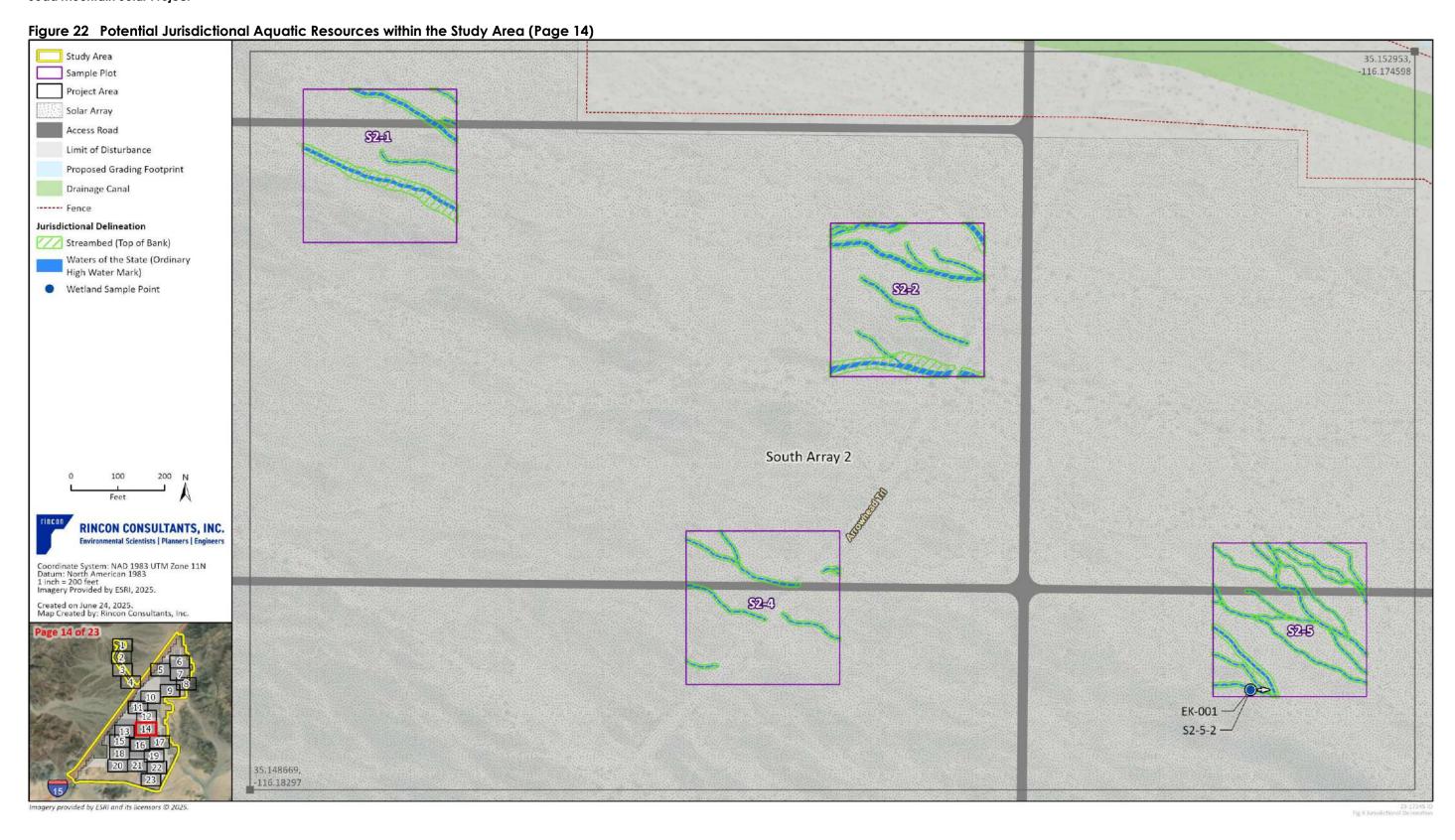


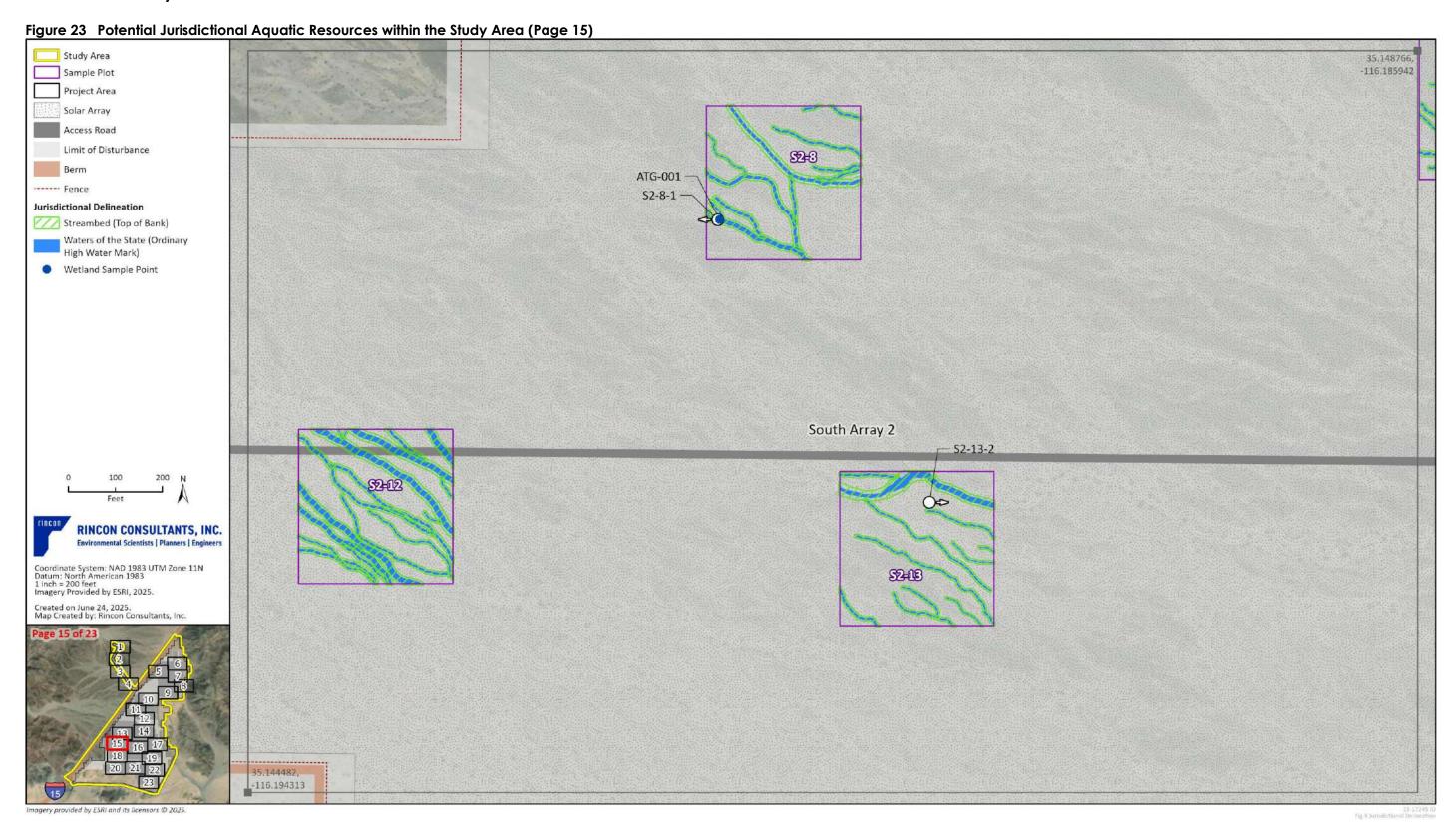


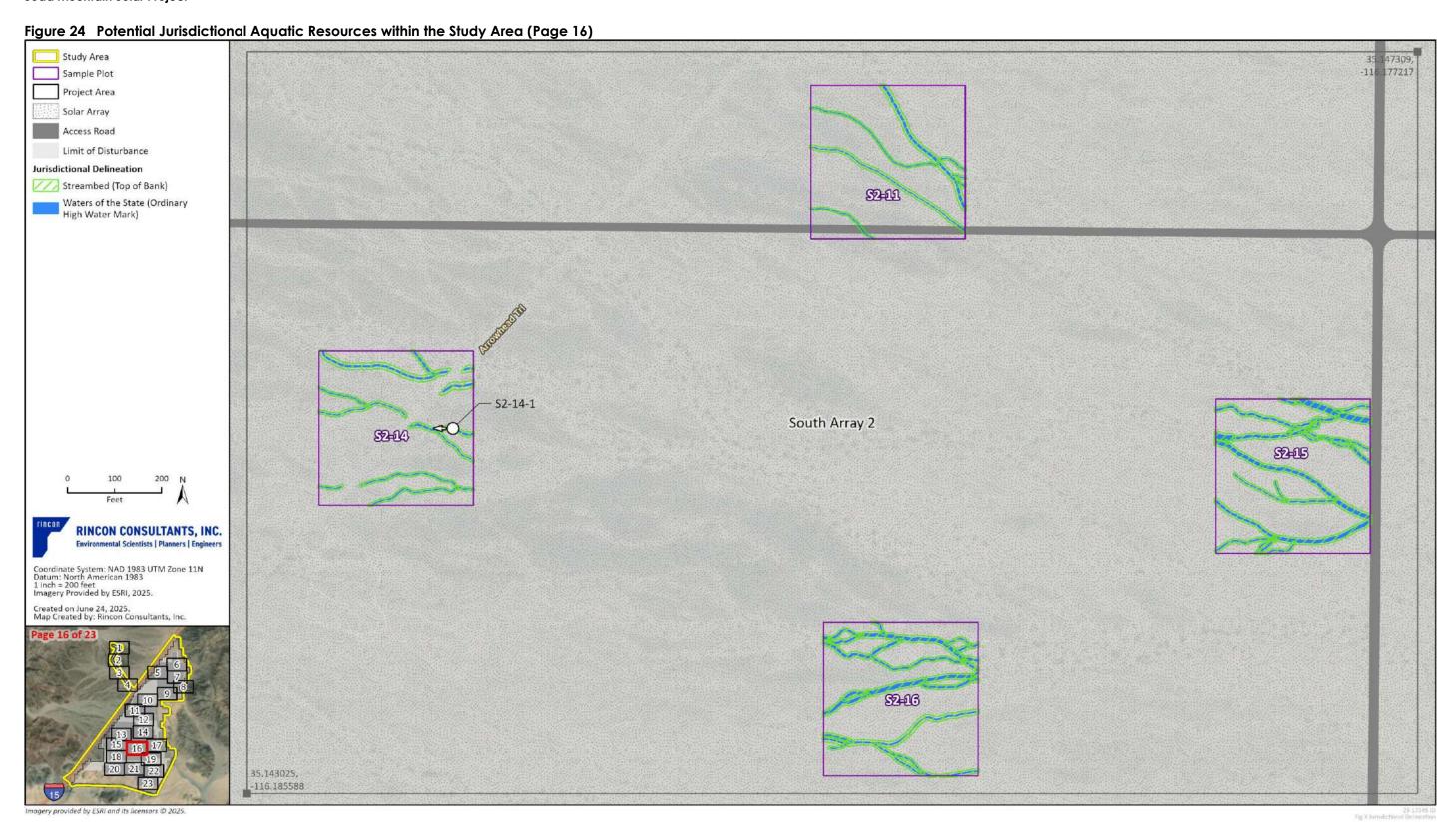


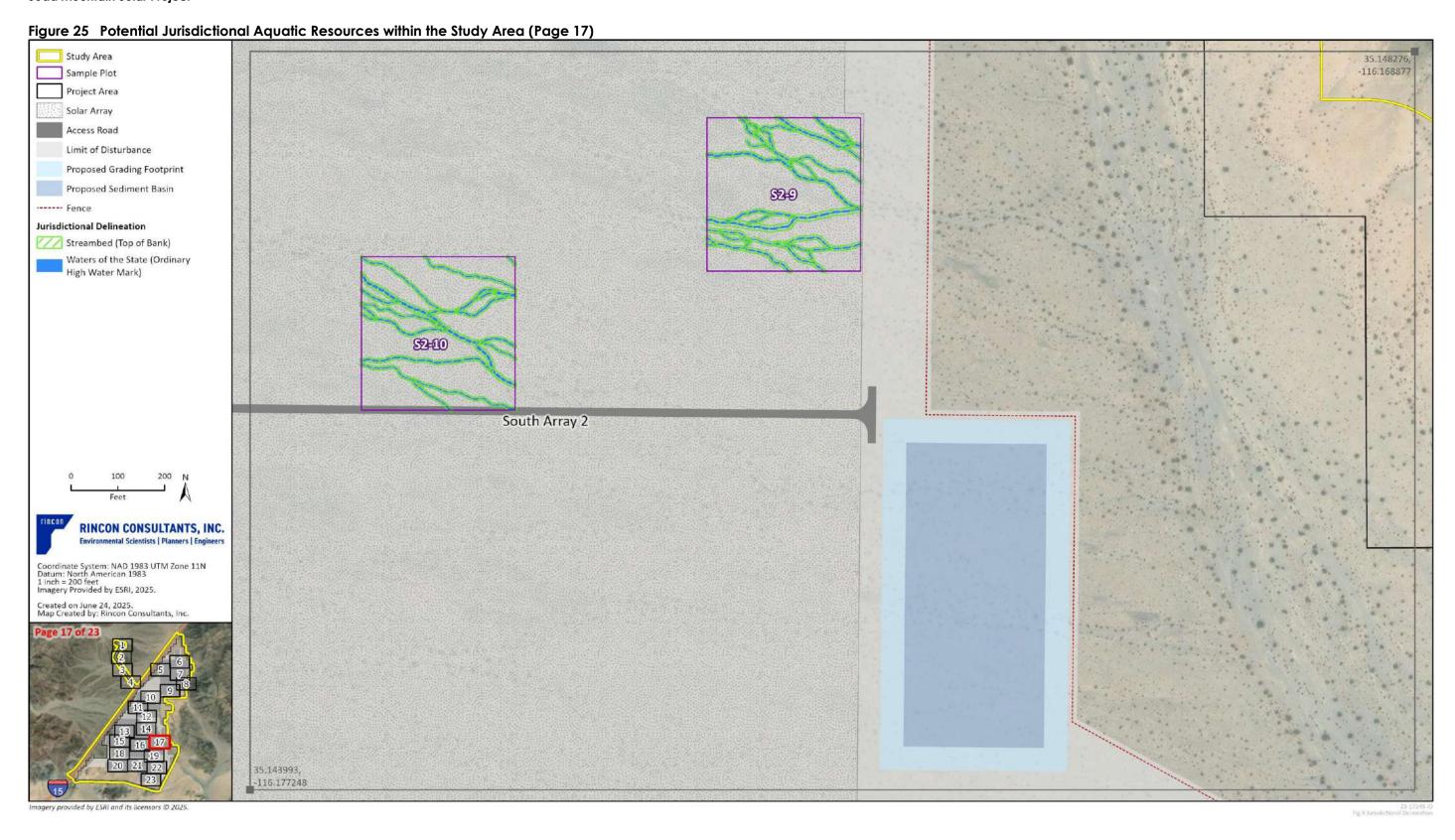






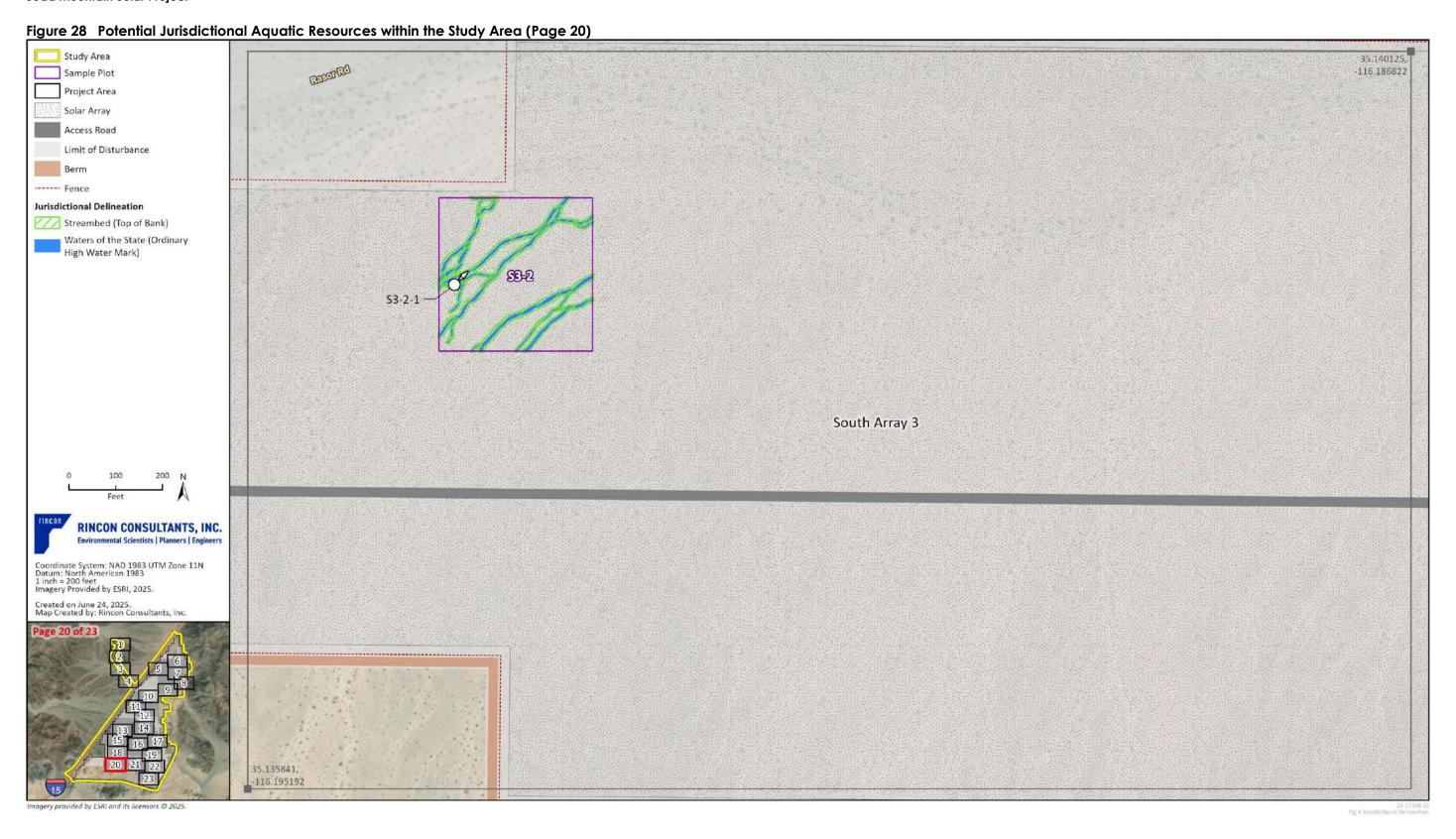


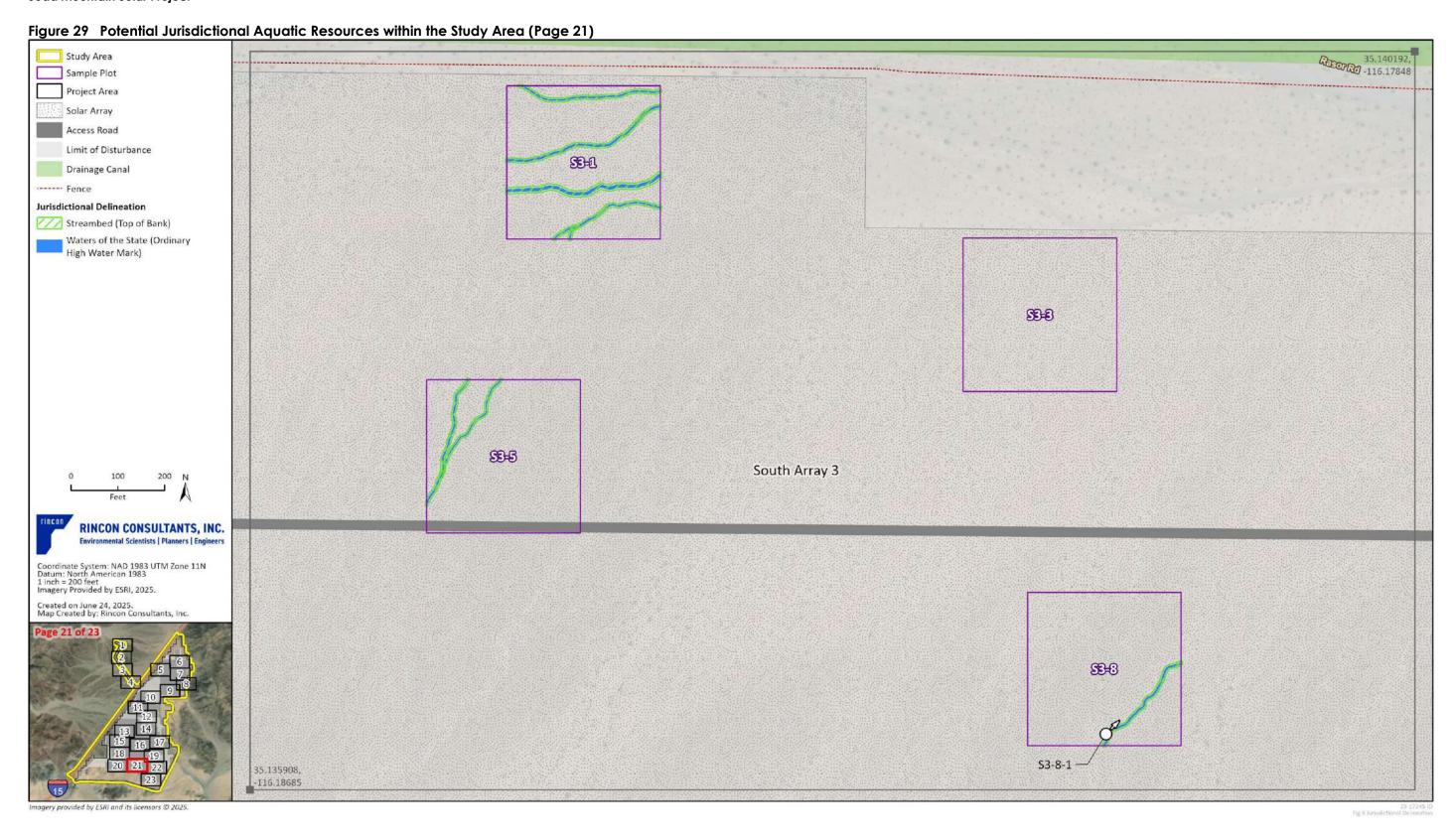




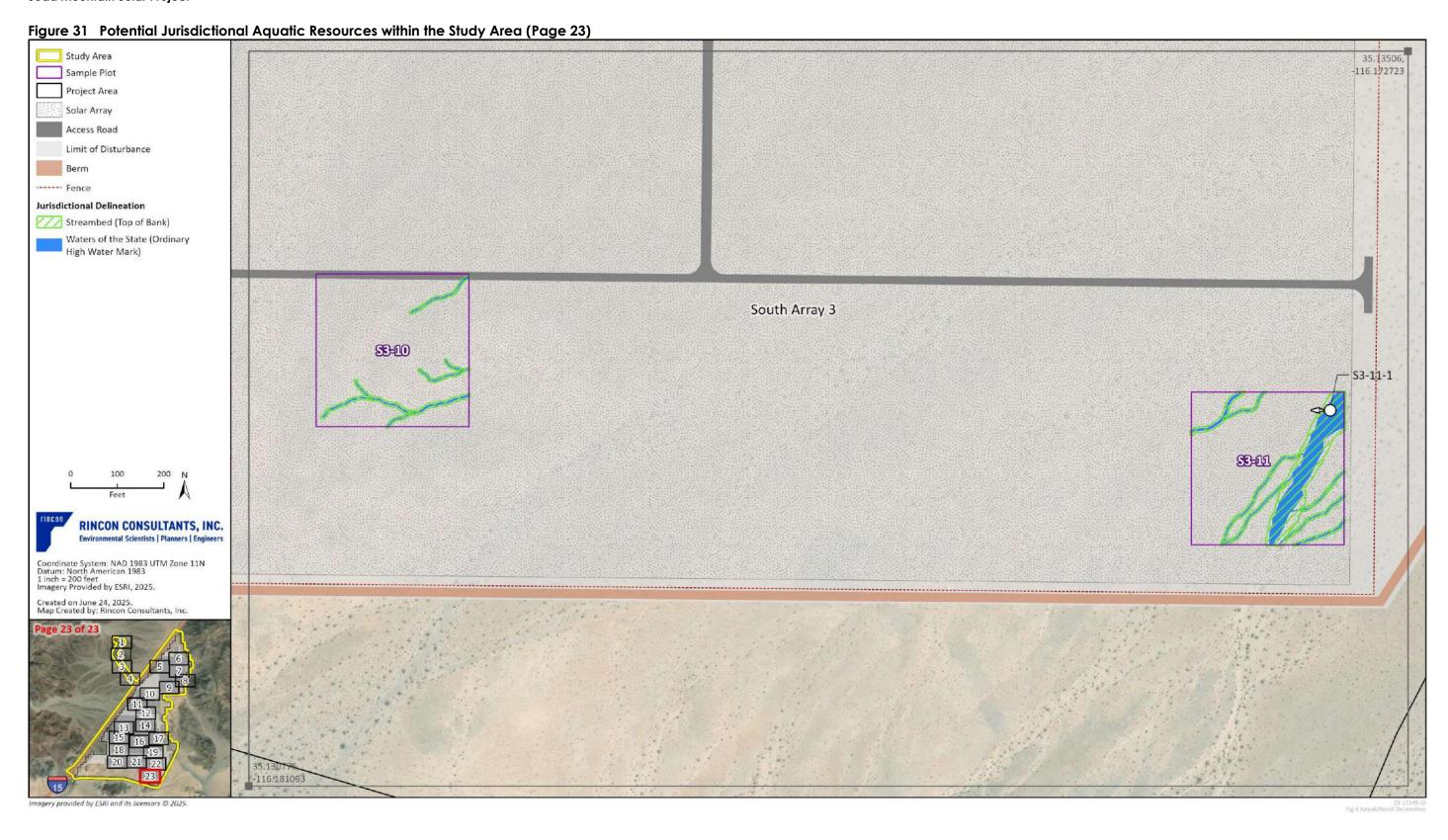












Soda Mountain Solar, LLC Soda Mountain Solar Project