# CULTURAL RESOURCES ASSESSMENT

# Estrella Solar Project and Gen-Tie Routes Unincorporated Los Angeles County, California

Prepared for:

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Data Base Information: *Type of Study:* Intensive Survey *Resources:* None *Keywords*: None *USGS Quadrangle:* 7.5-minute *Del Sur* (1995), *Little Buttes, California* (1974)



August 16, 2020

## MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Sustainable Power Group to complete a Cultural Resources Assessment of the proposed Estrella Project including gentie routes (the project) located in unincorporated Los Angeles County, California. A cultural resources records search, additional research, reconnaissance-level pedestrian field survey, Native American Heritage Commission (NAHC) Sacred Lands File Search, and vertebrate paleontological resources overview were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA). The records search revealed that seven previous cultural resource studies have taken place, and three cultural resources have been identified within one mile of the project site. One previous study has assessed a portion of the project site and no cultural resources have been identified within its boundaries. No cultural resources of any kind (including historic-period or prehistoric archaeological resources, or historic-period architectural resources) were identified during the field survey. Therefore, no significant impact related to historical resources is anticipated and no further investigations are recommended for the proposed project unless:

- The proposed project is changed to include areas that have not been subject to this cultural resource assessment;
- Cultural materials are encountered during project activities.

The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- human remains.

Findings were negative during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix A. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes

and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the County will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The appended Paleontological Overview provided in Appendix B has recommended that:

The geologic units underlying this project are mapped entirely as alluvial surficial deposits dating from the Holocene period (Dibblee 1963 [reference not provided]). While Holocene alluvial units are of high preservation value, material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Late Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If human remains are encountered during any project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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# INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to Sustainable Power Group to complete a Cultural Resources Assessment of the proposed Estrella Solar Project and Gen-Tie Routes (the project) located in unincorporated Los Angeles County, California. A cultural resources records search, additional research, reconnaissance-level pedestrian field survey, Native American Heritage Commission (NAHC) Sacred Lands File Search, and vertebrate paleontological resources overview were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA).

### Project Description and Location

The project is a utility scale Solar Generating Facility that will generate renewable solar electricity. The project will employ photovoltaic modules that convert sunlight directly into electrical energy without use of heat transfer fluid or cooling water. The block portion of the project site, as identified in this report, will occupy Section 6 of Township 8 North, Range 13 West, San Bernardino Baseline and Meridian. The block portion of the project site is depicted on the United States Geological Survey (USGS) *Little Buttes, California* (1974) 7.5-minute topographic quadrangle (Figure 1). Gen-tie routes that are also part of the project site are located as follows:

USGS Quad	Township	Range	Section(s)			
<i>Little Buttes, California</i> (1974)	8N	13W	6			
Little Buttes (1974) and Del Sur (1995)	8N	14W	1, 12, 13, 24, 25, 36*			
Del Sur (1995)	7N	14W	1			

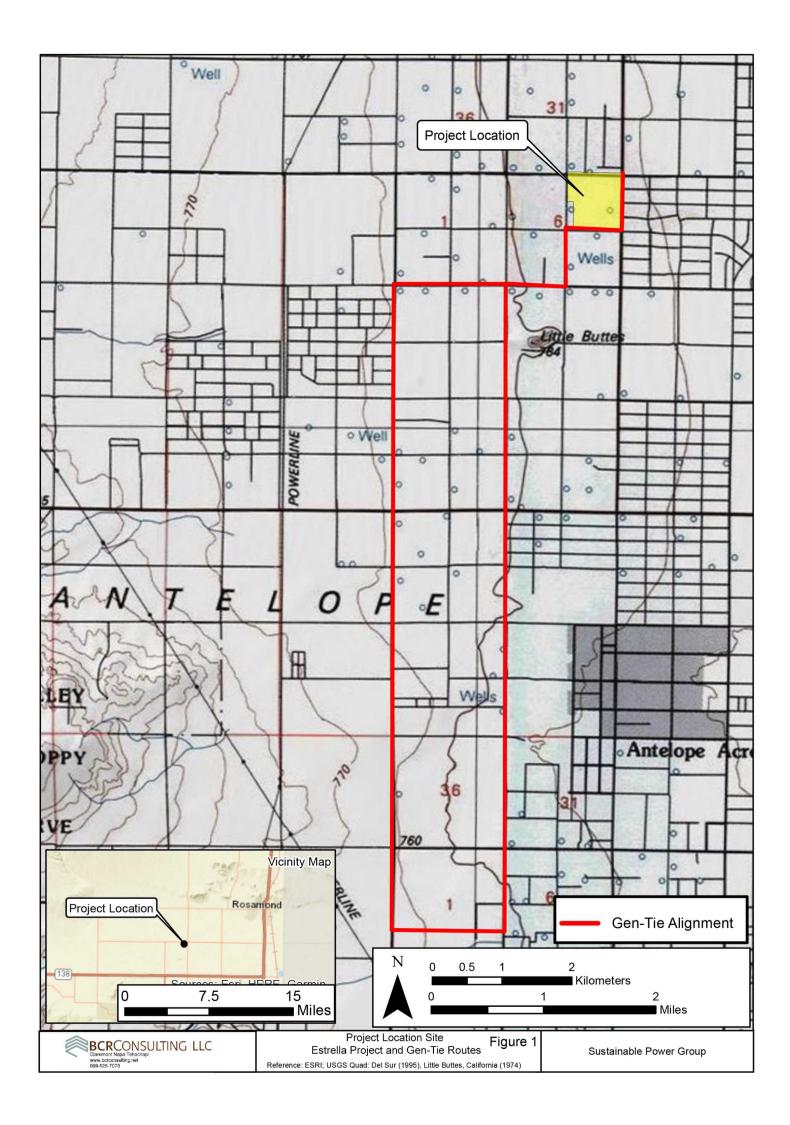
#### Table A. Project Gen-tie Route Location

\*Gen-Ties in these sections are located along eastern and western section boundaries.

### Regulatory Setting

**The California Environmental Quality Act.** CEQA applies to all discretionary projects undertaken or subject to approval by the state's public agencies (California Code of Regulations 14(3), § 15002(i)). Under CEQA, "A project with an effect that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (Cal. Code Regs. tit. 14(3), § 15064.5(b)). State CEQA Guidelines section 15064.5(a) defines a "historical resource" as a resource that meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register)
- Listed in a local register of historical resources (as defined at Cal. Public Res. Code § 5020.1(k))
- Identified as significant in a historical resource survey meeting the requirements of § 5024.1(g) of the Cal. Public Res. Code
- Determined to be a historical resource by a project's lead agency (Cal. Code Regs. tit. 14(3), § 15064.5(a))



A historical resource consists of "Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California...Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing in the California Register of Historical Resources" (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)).

The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the resource.

Section 5024.1 of the Cal. Public Res. Code established the California Register. Generally, a resource is considered by the lead agency to be "historically significant" if the resource meets the criteria for listing in the California Register (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)). The eligibility criteria for the California Register are similar to those of the National Register of Historic Places (National Register), and a resource that meets one or more of the eligibility criteria of the National Register will be eligible for the California Register.

The California Register program encourages public recognition and protection of resources of architectural, historical, archaeological, and cultural significance, identifies historical resources for state and local planning purposes, determines eligibility for state historic preservation grant funding and affords certain protections under CEQA. Criteria for Designation:

- 1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
- 2. Associated with the lives of persons important to local, California or national history.
- 3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
- 4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). Fifty years is normally considered sufficient time for a potential historical resource, and in order that the evaluation remain valid for a minimum of five years after the date of this report, all resources older than 45 years (i.e. resources from the "historic-period") will be evaluated for California Register listing eligibility, or CEQA significance. The California Register also requires that a resource possess integrity. This is defined as the ability for the

resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

Finally, CEQA requires that significant effects on unique archaeological resources be considered and addressed. CEQA defines a unique archaeological resource as any archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- 1. Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
- 2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
- 3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

CEQA Guidelines Section 15064.5 Appendix G includes significance criteria relative to archaeological and historical resources. These have been utilized as thresholds of significance here, and a project would have a significant environmental impact if it would:

- a) cause a substantial adverse change in the significance of a historical resource as defined in section 10564.5;
- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 10564.5;
- c) Disturb any human remains, including those interred outside of formal cemeteries.

Tribal Cultural Resources. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the County will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff are available to answer questions and address comments as necessary.

**Paleontological Resources.** CEQA provides guidance relative to significant impacts on paleontological resources, indicating that a project would have a significant impact on

paleontological resources if it disturbs or destroys a unique paleontological resource or site or unique geologic feature. Section 5097.5 of the California Public Resources Code specifies that any unauthorized removal of paleontological remains is a misdemeanor. Further, California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources. CEQA documentation prepared for projects would be required to analyze paleontological resources as a condition of the CEQA process to disclose potential impacts. Please note that as of January 2018 paleontological resources are considered in the geological rather than cultural category. Therefore, paleontological resources are not summarized in the body of this report. A paleontological overview completed by the Western Science Center is provided as Appendix B.

# NATURAL SETTING

### Geology

The project is located in the southwestern portion of the Mojave Desert. Sediments within the project boundaries have been derived from several geologic units (Hernandez 2010). These units include:

- Holocene slope wash composed of loose sand and rubble debris from downslope movement of Holocene surficial materials;
- Holocene modern alluvium containing unconsolidated fluvial gravel, sand and silt;
- Younger alluvial fan deposits (Holocene to Late Pleistocene) consisting of consolidated, dark-yellowish-brown, silty, fine arkosic sand with clay and calcium carbonate content.

Field observations during the current study are basically consistent with these descriptions, although disturbances related to farming activities were severe. None of the naturally occurring materials observed during the field survey exhibited evidence of the manufacture or acquisition of prehistoric stone tools or materials.

### Hydrology

The project elevation ranges from approximately 2,437 to 2,453 feet above mean sea level (AMSL). Sheetwashing generally occurs from west to east throughout the region, and flood channels are often active after summer and winter storms. Local farming has utilized floodirrigation, which relies on mechanical terracing for even water distribution. Local topography and natural erosive processes have been severely impacted by these activities to the extent that terraces are sometimes visible in topographic contour lines (USGS 1974). To the southeast, the peaks of the San Gabriel Mountains rise above 10,000 feet and are often capped with snow until late spring or early summer. The area currently exhibits an arid climate, with dry, hot summers and cool winters. Rainfall ranges from five to 15 inches annually (Jaeger and Smith 1971:36-37). Precipitation usually occurs in the form of winter and spring rain or snow at high elevations, with occasional warm monsoonal showers in late summer.

### Biology

The mild climate of the late Pleistocene allowed piñon-juniper woodland to thrive throughout most of the Mojave (Van Devender et al. 1987). The vegetation and climate during that epoch attracted significant numbers of Rancholabrean fauna, including dire wolf, saber-

toothed cat, short-faced bear, horse, camel, antelope, mammoth, pelican, goose, duck, cormorant, and eagle (Reynolds 1988). The drier climate of the middle Holocene resulted in the local development of complementary flora and fauna, which remain largely intact to this day. Common native plants currently include creosote, cacti (various species), rabbit bush, interior golden bush, cheesebush, sage (various species), buckwheat (at high elevations and near drainages), Joshua tree, and seasonal grasses. Common native animals include coyotes, cottontail and jackrabbits, rats, mice, desert tortoises, roadrunners, raptors, turkey vultures, and other bird species (see Williams et al. 2008).

# CULTURAL SETTING

### Prehistory

The prehistoric cultural setting of the Mojave Desert has been organized into many chronological frameworks (see Warren and Crabtree 1986; Bettinger and Taylor 1974; Lanning 1963; Hunt 1960; Wallace 1958, 1962, 1977; Wallace and Taylor 1978; Campbell and Campbell 1935), although there is no definitive sequence for the region. The difficulties in establishing cultural chronologies for the Mojave are a function of its enormous size and the small amount of archaeological excavations conducted there. Moreover, throughout prehistory many groups have occupied the Mojave and their territories often overlap spatially and chronologically resulting in mixed artifact deposits. Due to dry climate and capricious geological processes, these artifacts rarely become integrated in-situ. Lacking a milieu hospitable to the preservation of cultural midden, Mojave chronologies have relied temporally diagnostic artifacts, such as projectile points. upon or upon the presence/absence of other temporal indicators, such as groundstone. Such methods are instructive, but can be limited by prehistoric occupants' concurrent use of different artifact styles, or by artifact re-use or re-sharpening, as well as researchers' mistaken diagnosis, and other factors (see Flenniken 1985; Flenniken and Raymond 1986; Flenniken and Wilke 1989). Recognizing the shortcomings of comparative temporal indicators, this study synthesizes Warren and Crabree (1986), who have drawn upon this method to produce a commonly cited and relatively comprehensive chronology.

Paleoindian (12,000 to 10,000 BP) and Lake Mojave (10,000 to 7,000 BP) Periods. Climatic warming characterizes the transition from the Paleoindian Period to the Lake Mojave Period. This transition also marks the end of Pleistocene Epoch and ushers in the Holocene. The Paleoindian Period has been loosely defined by isolated fluted (such as Clovis) projectile points, dated by their association with similar artifacts discovered in-situ in the Great Plains (Sutton 1996:227-228). Some fluted bifaces have been associated with fossil remains of Rancholabrean mammals approximately dated to ca. 13,300-10,800 BP near China Lake in the northern Mojave Desert. The Lake Mojave Period has been associated with cultural adaptations to moist conditions, and resource allocation pointing to more lacustrine environments than previously (Bedwell 1973; Hester 1973). Artifacts that characterize this period include stemmed points, flake and core scrapers, choppers, hammerstones, and crescentics (Warren and Crabtree 1986:184). Projectile points associated with the period include the Silver Lake and Lake Mojave styles. Lake Mojave sites commonly occur on shorelines of Pleistocene lakes and streams, where geological surfaces of that epoch have been identified (Basgall and Hall 1994:69).

**Pinto Period (7,000 to 4,000 BP).** The Pinto Period has been largely characterized by desiccation of the Mojave. As formerly rich lacustrine environments began to disappear, the artifact record reveals more sporadic occupation of the Mojave, indicating occupants'

recession to the more hospitable fringes (Warren 1984). Pinto Period sites are rare, and are characterized by surface manifestations that usually lack significant in-situ remains. Artifacts from this era include Pinto projectile points and a flake industry similar to the Lake Mojave tool complex (Warren 1984), though use of Pinto projectile points as an index artifact for the era has been disputed (see Schroth 1994). Milling stones have also occasionally been associated with sites of this period (Warren 1984).

**Gypsum Period. (4,000 to 1,500 BP).** A temporary return to moister conditions during the Gypsum Period is postulated to have encouraged technological diversification afforded by the relative abundance of resources (Warren 1984:419-420; Warren and Crabtree 1986:189). Lacustrine environments reappear and begin to be exploited during this era (Shutler 1961, 1968). Concurrently a more diverse artifact assemblage reflects intensified reliance on plant resources. The new artifacts include milling stones, mortars, pestles, and a proliferation of Humboldt Concave Base, Gypsum Cave, Elko Eared, and Elko Cornernotched dart points (Warren 1984; Warren and Crabtree 1986). Other artifacts include leaf-shaped projectile points, rectangular-based knives, drills, large scraper planes, choppers, hammer stones, shaft straighteners, incised stone pendants, and drilled slate tubes. The bow and arrow appears around 2,000 BP, evidenced by the presence of a smaller type of projectile point, the Rose Spring point (Rogers 1939; Shutler 1961).

**Saratoga Springs Period (1,500 to 800 BP).** During the Saratoga Springs Period regional cultural diversifications of Gypsum Period developments are evident within the Mojave. Basketmaker III (Anasazi) pottery appears during this period, and has been associated with turquoise mining in the eastern Mojave Desert (Warren and Crabtree 1986:191). Influences from Patayan/Yuman assemblages are apparent in the southern Mojave, and include buff and brown wares often associated with Cottonwood and Desert Side-notched projectile points (Warren 1984:423). Obsidian becomes more commonly used throughout the Mojave and characteristic artifacts of the period include milling stones, mortars, pestles, ceramics, and ornamental and ritual objects. More structured settlement patterns are evidenced by the presence of large villages, and three types of identifiable archaeological sites (major habitation, temporary camps, and processing stations) emerge (McGuire and Hall 1988). Diversity of resource exploitation continues to expand, indicating a much more generalized, somewhat less mobile subsistence strategy.

**Shoshonean Period (800 BP to Contact).** The Shoshonean period is the first to benefit from contact-era ethnography –as well as be subject to its inherent biases. Interviews of living informants allowed anthropologists to match artifact assemblages and particular traditions with linguistic groups, and plot them geographically (see Kroeber 1925; Gifford 1918; Strong 1929). During the Shoshonean Period continued diversification of site assemblages, and reduced Anasazi influence both coincide with the expansion of Numic (Uto-Aztecan language family) speakers across the Great Basin, Takic (Uto-Aztecan language family) speakers into southern California, and the Hopi across the Southwest (Sutton 1996). Hunting and gathering continued to diversify, and the diagnostic arrow points include desert side-notch and cottonwood triangular. Ceramics continue to proliferate, though are more common in the southern Mojave during this period (Warren and Crabtree 1986). Trade routes have become well established across the Mojave, particularly the Mojave Trail, which transported goods and news across the desert via the Mojave River, to the west of the current project. Trade in the western Mojave was more closely related to coastal groups than others.

### Ethnography

The Uto-Aztecan "Serrano" people occupied the western Mojave Desert periphery. Kroeber (1925) applied the generic term "Serrano" to four groups, each with distinct territories: the Kitanemuk, Tataviam, Vanyume, and Serrano. Only one group, in the San Bernardino Mountains and West-Central Mojave Desert, ethnically claims the term Serrano. Bean and Smith (1978) indicate that the Vanyume, an obscure Takic population, was found along the Mojave River at the time of Spanish contact. The Kitanemuk lived to the north and west, while the Tataviam lived to the west. The Serrano lived mainly to the south (Bean and Smith 1978). All may have used the western Mojave area seasonally. Historical records are unclear concerning precise territory and village locations. It is doubtful that any group, except the Vanyume, actually lived in the region for several seasons yearly.

### History

Historic-era California is generally divided into three periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present).

**Spanish Period.** The first European to pass through the project area is thought to be a Spaniard called Father Francisco Garces. Having become familiar with the area, Garces acted as a guide to Juan Bautista de Anza, who had been commissioned to lead a group across the desert from a Spanish outpost in Arizona to set up quarters at the Mission San Gabriel in 1771 near what today is Pasadena (Beck and Haase 1974). This is the first recorded group crossing of the Mojave Desert and, according to Father Garces' journal, they camped at the headwaters of the Mojave River, one night less than a day's march from the mountains. Today, this is estimated to have been approximately 11 miles southeast of Victorville (Marenczuk 1962). Garces was followed by Alta California Governor Pedro Fages, who briefly explored the western Mojave region in 1772. Searching for San Diego Presidio deserters, Fages had traveled north through Riverside to San Bernardino, crossed over the mountains into the Mojave Desert, and then journeyed westward to the San Joaquin Valley (Beck and Haase 1974).

**Mexican Period.** In 1821, Mexico overthrew Spanish rule and the missions began to decline. By 1833, the Mexican government passed the Secularization Act, and the missions, reorganized as parish churches, lost their vast land holdings, and released their neophytes (Beattie and Beattie 1974).

**American Period.** The American Period, 1848–Present, began with the Treaty of Guadalupe Hidalgo. The Gold Rush had attracted huge numbers of American settlers and in 1850, California was accepted into the Union. The cattle industry reached its greatest prosperity during the first years of the American Period. Mexican Period land grants had created large pastoral estates in California, and demand for beef during the Gold Rush led to a cattle boom that lasted from 1849–1855. However, beginning about 1855, the demand for beef began to decline due to imports of sheep and cattle from the eastern U.S. When the beef market collapsed, many California ranchers lost their ranchos. A series of disastrous floods in 1861–1862, followed by a significant drought diminished the economic impact of local ranching. This decline combined with ubiquitous agricultural and real estate developments of the late 19<sup>th</sup> century, set the stage for diversified economic pursuits that have continued to proliferate to this day (Beattie and Beattie 1974; Cleland 1941).

Local Sequence. The region encompassing present-day Lancaster within the Antelope Valley was the subject of Spanish exploration as early as the 1770s. Previously occupied by Takic- and Numic-speaking Native American tribes, Captain Pedro Fages made expeditions through the area between 1772 and 1806, with more to follow in the 1840s and 1850s. Following California's annexation by the United States, the U.S. War Department traversed and described the valley in 1853 as part of a railway survey expedition. Lancaster grew up around the Southern Pacific Railroad's route from Bakersfield to Los Angeles, which entered the area in 1876. Historians differ whether the station and surrounding settlement were named after Lancaster, Pennsylvania, from which some pioneering settlers hailed, or if it was named after an early Southern Pacific worker at the station. Initially the Southern Pacific only built a roundhouse for engine repairs and shacks for railway maintenance workers at the siding at Lancaster. Labor required for the expanding railroad network brought approximately 3,000 workers (including 1,500 Chinese) through the siding around this period. In 1883, the Southern Pacific locally tapped into abundant subsurface water, setting the stage for a booming settlement. By 1884, the Lancaster siding was transformed into a full station depot complete with passenger agent (Gurba 2005:7; Lewis Publishing Company 1889:350). Soon thereafter, Moses L. Wicks purchased 60 sections of land around the station from the Southern Pacific. He had it surveyed and laid out a townsite with streets and lots for sale. By the 1890s, Lancaster had its own newspaper, hotel, church, grammar school, and post office. Groundwater proved adequate to start an agricultural economy, and berries, alfalfa, and other crops became local staples. However, beginning in 1895, a series of droughts created a severe economic downturn which drove many people to abandon their homesteads and move away from the town. Meanwhile, in the late 1890s, the discoveries of gold in hills north of Lancaster and borax in the surrounding Antelope Valley mountains provided economic alternatives sufficient to sustain Lancaster's viability. Once droughts subsided in 1905, locals shifted the agricultural focus to alfalfa, which new irrigation practices and electrical water pumping helped sustain. From 1908 to 1913, construction of the Los Angeles Aqueduct originating in the Owens Valley also made Lancaster a central location for housing aqueduct workers. Further municipal improvements included paved streets in 1916, the formation of a local Los Angeles County Waterworks district in 1919, a fire department in 1921, and electric service brought by Southern California Edison in 1923 (City of Lancaster 2020; Ford 1998; Gurba 2005:7, Los Angeles County Library).

In 1932 Lieutenant Colonel Henry H. "Hap" Arnold began acquiring land near Muroc Dry Lake (north of Lancaster) to establish a bombing range. Known as Muroc Field, small-scale military aerial experimentation ensued at the site and by 1937 it gained recognition as an ideal site for flight testing because of its expansive level topography. During World War II it expanded to over 300,000 acres and a 15,000-foot runway was constructed. The influx of military personnel helped transform Lancaster into a thriving hub of economic activity, complete with a plethora of homes, stores, churches, schools, and hospitals. In 1942 officials installed two bombardment groups and two squadrons at the base, which was renamed Army Air Base, Muroc Lake. The army utilized the site for flight and missile testing and development throughout World War II and the Cold War. It was renamed Edwards Air Force Base in 1949 for Captain Glen Edwards who died locally in a crash of the Northrop YB-49 Flying Wing in 1948. Many pilots and other base personnel resided in Lancaster, and it has represented a sustained and vital economic force to the City of Lancaster and

surrounding area. The post war years brought an economic boom to Lancaster, which was locally punctuated by the opening of the first local ready-mix plant, the Antelope Valley Freeway plan By the 1970s the local population expanded to 37,000. Lancaster incorporated in 1977 and has since developed into a bedroom community, and remained a hub for farming, mining, and transportation. Today its population stands at over 160,000 (AntelopeValley.com; City of Lancaster 2020; Gurba 2005:8).

# PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager/Principal Investigator for the current study, and authored the technical report with contributions from BCR Consulting Historian Dylan Williams. BCR Consulting Archaeological Field Director Joseph Orozco, M.A., RPA completed the records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton and at the Southern San Joaquin Valley Information Center (SSJVIC) at California State University, Bakersfield. Mr. Orozco and BCR Consulting Staff Archaeologists Joseph Brunzell and Kainoa Heskett carried out the fieldwork.

## METHODS

### Research

Prior to fieldwork, a records search was conducted at the SCCIC and at the SSJVIC. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within one mile of the current project. Additional resources reviewed included the National Register of Historic Places (National Register), the California Register, and documents and inventories published by the California Office of Historic Preservation. These include the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

### Field Survey

A reconnaissance-level cultural resources field survey of the project site was conducted between March 23 and April 17, 2020, and on July 24, 2020. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across the block portion of the project site. Two parallel transects spaced 15 meters apart (where accessible) have been walked along each frontage of the proposed gen-tie alignments. Digital photographs were taken at various points within the project site.

# RESULTS

### Research

Data from the SCCIC and the SSJVIC revealed that seven previous cultural resource studies have taken place, and three cultural resources have been identified within one mile of the project site. One previous study has assessed a portion of the project site and no cultural resources have been identified within its boundaries. The nearest resource is a historic-period road (West Avenue D.) which will be crossed by the project gen-tie alignment. Since impacts are not proposed to West Avenue D, it does not warrant further consideration. The records search is summarized in Table B.

USGS Quad	Cultural Resources	Studies
<i>Little Buttes</i> (1974), <i>Del Sur</i> (1995), California	P-19-101248: N/A (1/2 Mile Southwest) P-19-4414: Historic-Period West Avenue D (Adjacent) P-19-186876: HistPer. Transmission Line (1/2 Mile SW)	KE-901, 1269, 2059, LA-2053, 10472, 10859*, 11220

#### Table B. Cultural Resources and Reports Within One Mile of the Project Site

\*Previously assessed portions of the Gen-tie alignment.

Aerial photographs indicate that the site was part of an alfalfa farm associated with historicperiod residential and farm complex outside the project boundaries to the southwest. Since 1948, the property has been subject to terracing and re-terracing on several occasions, most recently between 1974 and 1995 (United States Department of Agriculture 1948, 1974, 1995).

### Field Survey

During the field survey, BCR Consulting archaeologists identified no cultural resources (including historic-period or prehistoric archaeological sites, or historic-period architectural resources) of any kind. The project has been subject to severe disturbances associated with terracing to maximize gravity irrigation and recent discing for weed-abatement in the block portion of the project site. The gen-tie alignments have been subject to excavation, grading, and paving associated with road construction and utility installation and maintenance. Vegetation consisted of seasonal grasses and afforded surface visibility of approximately 30 percent. Sediments included fine sandy silt with very few rocks.

## RECOMMENDATIONS

BCR Consulting conducted a reconnaissance survey of the Estrella Solar Project (including gen-tie routes) in Los Angeles County, California. No cultural resources of any kind (including historic-period or prehistoric archaeological resources, or historic-period architectural resources) were identified. Therefore, no significant impact related to historical resources is anticipated and no further investigations are recommended for the proposed project unless:

- The proposed project is changed to include areas that have not been subject to this cultural resource assessment;
- Cultural materials are encountered during project activities.

The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the

National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- human remains.

Findings were negative during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix A. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the County will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The appended Paleontological Overview provided in Appendix B has recommended that:

The geologic units underlying this project are mapped entirely as alluvial surficial deposits dating from the Holocene period (Dibblee 1963 [reference not provided]). While Holocene alluvial units are of high preservation value, material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Late Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene

periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If human remains are encountered during any project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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# APPENDIX A

# NATIVE AMERICAN HERITAGE COMMISSION CORRESPONDENCE



CHAIRPERSON Laura Miranda Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

Secretary Merri Lopez-Keifer Luiseño

Parliamentarian Russell Attebery Karuk

Commissioner Marshall McKay Wintun

COMMISSIONER William Mungary Paiute/White Mountain Apache

Commissioner Joseph Myers Pomo

COMMISSIONER Julie Tumamait-Stenslie Chumash

Commissioner [Vacant]

Executive Secretary Christina Snider Pomo

#### NAHC HEADQUARTERS

1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 <u>nahc@nahc.ca.gov</u> NAHC.ca.gov

#### STATE OF CALIFORNIA

# NATIVE AMERICAN HERITAGE COMMISSION

March 26, 2020

Nicholas Shepetuk BCR Consulting

Via Email to: nickshepetuk@gmail.com

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Estrella Solar Project, Los Angeles County

Dear Mr. Shepetuk:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

• A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;

- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

• Any report that may contain site forms, site significance, and suggested mitigation measures.

All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was <u>negative</u>.

- 4. Any ethnographic studies conducted for any area including all or part of the APE; and
- 5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quin

Steven Quinn Cultural Resources Analyst

Attachment

#### Native American Heritage Commission Tribal Consultation List Los Angeles County 3/26/2020

#### Kitanemuk & Yowlumne Tejon Indians

Delia Dominguez, Chairperson 115 Radio Street Bakersfield, CA, 93305 Phone: (626) 339 - 6785 2deedominguez@gmail.com

Kitanemuk Southern Valley Yokut

#### Morongo Band of Mission Indians

Robert Martin, Chairperson 12700 Pumarra Rroad Banning, CA, 92220 Phone: (951) 849 - 8807 Fax: (951) 922-8146 dtorres@morongo-nsn.gov

Cahuilla Serrano

#### Quechan Tribe of the Fort Yuma Reservation

Jill McCormick, Historic Preservation Officer P.O. Box 1899 Quechan Yuma, AZ, 85366 Phone: (760) 572 - 2423 historicpreservation@quechantrib e.com

#### San Fernando Band of Mission Indians

Donna Yocum, Chairperson P.O. Box 221838 Newhall, CA, 91322 Phone: (503) 539 - 0933 Fax: (503) 574-3308 ddyocum@comcast.net

#### San Manuel Band of Mission Indians

Jessica Mauck, Director of Cultural Resources 26569 Community Center Drive Serrano Highland, CA, 92346 Phone: (909) 864 - 8933 jmauck@sanmanuel-nsn.gov

#### Serrano Nation of Mission Indians

Wayne Walker, Co-Chairperson P. O. Box 343 Serrano Patton, CA, 92369 Phone: (253) 370 - 0167 serranonation1@gmail.com

#### Serrano Nation of Mission Indians

Mark Cochrane, Co-Chairperson P. O. Box 343 Serrano Patton, CA, 92369 Phone: (909) 528 - 9032 serranonation1@gmail.com

### Tejon Indian Tribe

Octavio Escobedo, Chairperson P.O. Box 640 Kitanemuk Arvin, CA, 93203 Phone: (661) 834 - 8566 oescobedo@tejonindiantribensn.gov

### Tejon Indian Tribe

Colin Rambo, P.O. Box 640 Arvin, CA, 93203 Phone: (661) 834 - 8566 colin.rambo@tejonindiantribensn.gov

Kitanemuk

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Estrella Solar Project, Los Angeles County.

# **APPENDIX B**

# PALEONTOLOGICAL RESOURCES OVERVIEW



BCR Consulting LLC Nicholas Shepetuk 505 West 8<sup>th</sup> Street Claremont, CA 91711 March 20, 2020

Dear Mr. Shepetuk,

This letter presents the results of a record search conducted for the Estrella Solar Project in Rosamond, Los Angeles County, California. The project site is located at the intersection of Avenue A and 90th Street, Township 8 North, Range 13 West in Section 6 on the CA USGS Little Buttes 7.5 minute quadrangle.

The geologic units underlying this project are mapped entirely as alluvial surficial deposits dating from the Holocene period (Dibblee, 1963). While Holocene alluvial units are of high preservation value, material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Late Pleistocene alluvial sediments would increase. The Western Science Center does not have localities within the project area or within a 1 mile radius.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant. Excavation activity associated with the development of the project area is unlikely to be paleontologically sensitive, but caution during development should be observed.

If you have any questions or would like further information, please feel free to contact me at dradford@westerncentermuseum.org

Sincerely,

Darla Radford Collections Manager

# APPENDIX C

# **PROJECT PHOTOGRAPHS**



Photo 1: Project Site Overview (View South)



Photo 2: Project Site Overview (View Southeast)



Photo 3: Project Site Overview (View Southwest)



Photo 4: Project Site Overview (View South)