

# CULTURAL RESOURCES ASSESSMENT

## Daisy and Cassia Development Project

### Adelanto, San Bernardino County, California

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Project No. BEC2301

**Data Base Information:**

*Type of Study:* Intensive Survey

*Resources Recorded:* None

*Keywords:* Adelanto, Negative Findings

*USGS Quadrangle:* 7.5-minute Adelanto, California (1993)



BCRCONSULTING LLC

December 12, 2023

## MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Blue Engineering and Consulting, Inc. to complete a Cultural Resources Assessment of the proposed Daisy and Cassia Development Project (project) in the City of Adelanto (City), San Bernardino County, California. A cultural resources records search, intensive-level pedestrian field survey, Sacred Lands File Search through the Native American Heritage Commission, and vertebrate paleontological resources assessment were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA).

The records search revealed that 10 cultural resource studies have taken place resulting in the recording of no cultural resources within one half-mile of the project site. None of the previous studies have assessed the project site and no cultural resources have been previously recorded within its boundaries. During the field survey, no cultural resources of any kind (including historic-period or prehistoric archaeological resources, or historic-period architectural resources) were identified during the field survey. Based on these results, 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 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 City 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 Paleontological Overview provided in Appendix C has recommended that:

The geologic units underlying the project area are mapped primarily as alluvial sand, silt, and gravel from the Holocene epoch (Dibblee and Minch 2008). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. 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 the undertaking, 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 Native American Heritage Commission (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.

## TABLE OF CONTENTS

MANAGEMENT SUMMARY .....	ii
INTRODUCTION.....	1
REGULATORY SETTING .....	1
NATURAL SETTING .....	4
GEOLOGY .....	4
HYDROLOGY .....	5
BIOLOGY .....	5
CULTURAL SETTING.....	5
PREHISTORY .....	5
ETHNOGRAPHY.....	7
HISTORY .....	7
PERSONNEL .....	8
METHODS .....	8
RESEARCH .....	8
FIELD SURVEY .....	9
RESULTS .....	9
RESEARCH .....	9
FIELD SURVEY .....	9
RECOMMENDATIONS .....	9
REFERENCES.....	12

### FIGURES

1: Project Location Map.....	2
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### TABLES

A: Cultural Resources and Reports Located within One Half-Mile of Project Site.....	9
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### APPENDICES

A: CULTURAL RESOURCES RECORDS SEARCH BIBLIOGRAPHY	
B: NAHC SACRED LANDS FILE SEARCH	
C: PALEONTOLOGICAL OVERVIEW	
D: PROJECT PHOTOS	

## INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to Blue Engineering and Consulting, Inc. to complete a Cultural Resources Assessment of the proposed Daisy and Cassia Development Project (project) in the City of Adelanto (City), San Bernardino County, California. A cultural resources records search, intensive-level pedestrian field survey, Sacred Lands File Search through the Native American Heritage Commission, and vertebrate paleontological resources assessment were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA). The project is located northeast of the intersection of Daisy Road and Holly Road, in the northeast quarter of the southwest quarter of Section 5, Township 5 North, Range 5 West, San Bernardino Baseline and Meridian. It is depicted on the United States Geological Survey (USGS) *Adelanto, California* (1993) 7.5-minute topographic quadrangle (Figure 1).

### 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.



Project Location

Vicinity Map

Project Location

Victorville

Sources: Esri, HERE, Garmin,  
 USGS, Intermap,  
 DeLorme, NAVTEQ, Esri

0 10 20 Miles

N

0 0.4 0.8 1.6 Kilometers

0 0.8 1.6 Miles

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 City 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 C.

## NATURAL SETTING

### Geology

The project is located in the southwestern portion of the Mojave Desert. Sediments within the project boundaries include a geologic unit composed of undifferentiated alluvial deposits formed during the late Holocene Epoch of the Quaternary Period (Bortunga and Splitter 1986). Field observations during the current study are basically consistent with these descriptions,



although surface examinations revealed the presence of granitic and quartz gravels and pebbles.

## **Hydrology**

The project elevation ranges from approximately 2,985 feet above mean sea level (AMSL). Sheetwashing and some rilling occurs from south to north, and local water drains into an unnamed drainage site to the northeast. To the south, the peaks of the San Bernardino Mountains rise above 10,000 feet and are often capped with snow until late spring or early summer. The area currently exhibits a relatively arid climate, with dry, hot summers and cool winters (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 this epoch attracted significant numbers of Rancho La Brea fauna, including dire wolf, saber-toothed cat, short-faced bear, horse, camel, antelope, mammoth, as well as birds which included 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 include creosote, cacti, rabbit bush, interior golden bush, cheesebush, species of sage, buckwheat at higher elevations and near drainages, Joshua tree, and various 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 upon temporally diagnostic artifacts, such as projectile points, 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 Crabtree

(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 Rancho La Brea 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 Corner-notched 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; Yohe 1992).

**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 near Apple Valley 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. In 1850, California was accepted into the Union of the United States primarily due to the population increase created by the Gold Rush of 1849. 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 from New Mexico and cattle from the Mississippi and Missouri Valleys. When the beef market collapsed, many California ranchers lost their ranchos through foreclosure. 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).

## PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study. BCR Consulting Field Crew Chief Nick Shepetuk conducted the cultural resources records search at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. BCR Consulting Archaeological Crew Chief Timothy Blood, M.S. and BCR Consulting Staff Historian George Brentner, B.A. completed the field survey. Mr. Brunzell authored the technical report with contributions from Mr. Blood.

## METHODS

### Research

The cultural resources records search was conducted at the SCCIC. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within one half-mile of the current project. Additional resources reviewed included the National Register of Historic Places, the California Register of Historical Resources, 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

An archaeological field survey of the project was conducted on July 12, 2023. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across 100 percent of the study area, where accessible. Soil exposures were carefully inspected for evidence of cultural resources.

## RESULTS

### Research

Data from the SCCIC revealed that ten cultural resource studies have taken place resulting in the recording of no cultural resources within one half-mile of the project site. None of the previous studies have assessed the project site and no cultural resources have been previously recorded within its boundaries. The records search is summarized in Table A and the records search bibliography is provided in Appendix A.

**Table A. Cultural Resources and Reports Within One Half-Mile of the Project Site**

USGS 7.5 Minute Quadrangle	Cultural Resources Within One Half-Miles of Project Site	Studies Within One Half-Mile of Project Site
<i>Adelanto, California</i> (1993)	None	SB-1158, 1175, 1479, 1504, 2180, 2399, 3020, 3070, 7982, 8036

### 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 within the project boundaries. The project site has been subject to disturbances including modern trash dumping, aeolian deflation, sheetwashing, an accumulation of soil the northern boundary, buried utility cable on the northern boundary, a dirt road on the western boundary, tire tracks on the southern boundary, and asphalt debris on the east side from the construction of Daisy Road. Vegetation through the project area was desert creosote and Joshua tree woodland. Surface visibility was between 70 and 80 percent. Surficial sediments observed were composed mainly of a light-yellowish sandy loam with approximately 15 to 20 percent subrounded to rounded granite pebbles to cobbles that were mainly concentrated in the south central and southern portions of the project.

## RECOMMENDATIONS

BCR Consulting conducted a cultural resources assessment of the Daisy and Cassia Development Project in the City of Adelanto, San Bernardino County, California. No cultural resources of any kind (including historic-period or prehistoric archaeological resources, or historic-period architectural resources) were identified within the project site boundaries. Therefore, no significant impact related to historical resources is anticipated and no further investigations are recommended 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;
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Findings were negative during the Sacred Lands File search with the NAHC. 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 City 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.

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The geologic units underlying the project area are mapped primarily as alluvial sand, silt, and gravel from the Holocene epoch (Dibblee and Minch 2008). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. 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 the undertaking, 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 Native American Heritage Commission (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

### CULTURAL RESOURCES RECORDS SEARCH BIBLIOGRAPHY

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## Report List

BEC2301

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-01158	NADB-R - 1061158; Voided - 81-7.3	1981	GREENWOOD, ROBERTA S. and MICHAEL J. MCINTYRE	CLASS III CULTURAL RESOURCE INVENTORY: ADELANTO-RINALDI 500 KV T/L CORRIDORS 1, 2, AND 3, LOS ANGELES DEPARTMENT OF WATER AND POWER	GREENWOOD AND ASSOCIATES	36-004674, 36-004675, 36-004676
SB-01175	NADB-R - 1061175; Voided - 81-8.4	1981	LERCH, MICHAEL K.	CULTURAL RESOURCES ASSESSMENT OF PROPOSED IMPROVEMENT PROJECTS OF ADELANTO ROAD AND RANCHO ROAD, CITY OF ADELANTO, SAN BERNARDINO COUNTY, CALIFORNIA	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01479	NADB-R - 1061479; Voided - 85-1.1	1985	DAMES & MOORE	MEAD/MCCULLOUGH- VICTORVILLE/ADELANTO TRANSMISSION PROJECT TECHNICAL REPORT: VOLUME IV, CULTURAL RESOURCES	DAMES & MOORE	36-005331, 36-005332, 36-005430, 36-023426
SB-01504	NADB-R - 1061504; Voided - 85-8.3	1985	GREENWOOD, ROBERTA S. and JOHN M. FOSTER	CULTURAL RESOURCES INVESTIGATION FOR LOS ANGELES DEPARTMENT OF WATER AND POWER: VICTORVILLE- RINALDI 500 KV TRANSMISSION LINE 1: FINAL REPORT	GREENWOOD AND ASSOCIATES	36-005445, 36-005446, 36-005447
SB-02180	NADB-R - 1062180; Voided - 83-7.4	1983	DORN, RONALD I.	CATION-RATIO DATING: A NEW ROCK VARNISH AGE-DETERMINATION TECHNIQUE	QUATERNARY RESEARCH 20:49-73	36-002102
SB-02399	NADB-R - 1062399; Voided - 91-3.10	1991	MCGUIRE, KELLY R. and LESLIE GLOVER	A CULTURAL RESOURCES INVENTORY OF A PROPOSED NATURAL GAS PIPELINE CORRIDOR FROM ADELANTO TO WARD VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA	FAR WESTERN ANTHROPOLOGICAL RESEARCH GROUP	36-000562, 36-001907, 36-001908, 36-002107, 36-002340, 36-002792, 36-003252, 36-004037, 36-004055, 36-005054, 36-005598, 36-005794, 36-006404, 36-006502, 36-006507, 36-006511, 36-006512, 36-006513, 36-006517, 36-006518, 36-006519, 36-006520, 36-006525, 36-006526, 36-006527, 36-006528, 36-006693, 36-006889, 36-006890, 36-006891, 36-006892, 36-006893, 36-006894, 36-006895, 36-006896, 36-006897, 36-006898, 36-006899, 36-006900, 36-006941, 36-006942, 36-006943, 36-006944, 36-006945, 36-006946, 36-006947, 36-006948, 36-006949, 36-006950, 36-006951, 36-006952, 36-006953, 36-006954

## Report List

BEC2301

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-03020	NADB-R - 1063020	1993	STURM, BRAD, D. MCLEAN, K. BECKER, and J. ROSENTHAL	(DRAFT) ADELANTO-LUGO TRANSMISSION PROJECT CULTURAL RESOURCES ASSESSMENT	WOODWARD-CLYDE	36-002910, 36-004019, 36-004251, 36-004255, 36-004266, 36-004267, 36-004268, 36-004269, 36-004272, 36-004274, 36-004275, 36-004276, 36-004411, 36-006353, 36-006532, 36-006533, 36-007739, 36-007740, 36-007741, 36-007742, 36-007743, 36-007744, 36-007745, 36-007746, 36-007747, 36-007748, 36-007749, 36-007750, 36-007751, 36-007752, 36-007753, 36-007754, 36-007755, 36-007756, 36-007757, 36-007758, 36-007759, 36-007760, 36-007761, 36-007762, 36-007763
SB-03070	NADB-R - 1063070	1995	YORK, ANDREW, W.G. SPAULDING, G. DAVIS, D. POWERS, and T. WAHOFF	CLASS III CULTURAL RESOURCES INVENTORY FOR LOS ANGELES DEPARTMENT OF WATER AND POWER MEAD TO ADELANTO TRANSMISSION LINE PROJECT: MT GENERAL, KRAMER AND ADELANTO DIVISIONS.	DAMES & MOORE	36-000276, 36-000403, 36-001221, 36-001607, 36-002071, 36-002072, 36-002257, 36-004022, 36-004024, 36-005331, 36-005332, 36-005454, 36-006147, 36-006148, 36-006343, 36-006346, 36-006347, 36-006348, 36-006570, 36-006571, 36-006572, 36-006693, 36-006733, 36-006734, 36-006735, 36-006873, 36-006874, 36-006876, 36-007015, 36-007084, 36-007085, 36-007086, 36-007087, 36-007088, 36-007089, 36-007090, 36-007421, 36-007422, 36-007423, 36-007424, 36-007425, 36-007427, 36-007428, 36-007429, 36-007430, 36-007432, 36-007541, 36-007542, 36-007543, 36-007544, 36-007545, 36-007546, 36-007547, 36-007548, 36-007549, 36-007550, 36-007551, 36-007552, 36-007553, 36-007554, 36-007555, 36-007556, 36-007557, 36-007558, 36-007559, 36-007560, 36-007561, 36-007562, 36-007665, 36-007666, 36-007667, 36-007668, 36-007669, 36-007670, 36-007671, 36-007672, 36-007673, 36-007674, 36-007681, 36-007682, 36-007683, 36-007684, 36-007685, 36-007687, 36-007690

## Report List

BEC2301

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-07982		2013	Dietler, Sara, Elizabeth Denniston, and Steven Treffers	Cultural Resources Impact Mitigation Analysis for the Adelanto North 2035 Sustainable Community Plan, City of San Bernardino County, California	SWCA Environmental Consultants Pasadena Office	
SB-08036	Paleo -	2014	Brunzell, David	Cultural Resources Assessment Seneca Solar Project, City of Victorville, San Bernardino County, California	BCR Consulting LLC	36-029050, 36-061252

**APPENDIX B**

**NAHC SACRED LANDS FILE SEARCH RESULTS**

## NATIVE AMERICAN HERITAGE COMMISSION

August 11, 2023

David Brunzell  
BCR Consulting, LLC

Via Email to: [bcrllc2008@gmail.com](mailto:bcrllc2008@gmail.com)

**Re: APN 3128-111-06 Project (BEC2301), San Bernardino County**

Dear Mr. Brunzell:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: [Cameron.vela@nahc.ca.gov](mailto:Cameron.vela@nahc.ca.gov).

Sincerely,

*Cameron Vela*

Cameron Vela  
Cultural Resources Analyst  
Attachment



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# APPENDIX C

## PALEONTOLOGICAL RESOURCES ASSESSMENT



August 16<sup>th</sup>, 2023

BCR Consulting, LLC  
Doug Kazmier  
505 W. 8<sup>th</sup> St.  
Claremont, CA 91711

Dear Mr. Kazmier,

This letter presents the results of a record search conducted for the Daisy & Cassia Project in the city of Adelanto, Sa Bernardino County, CA. The project site is located north of Pansy Road, south of Cassia Road, west of Daisy Road and east of Verbena Road on Township 5 North, Range 5 West, Section 5 of *Adelanto*, CA USGS 7.5 minute quadrangle.

The geologic units underlying the project area are mapped primarily as alluvial sand, silt, and gravel from the Holocene epoch (Dibblee and Minch 2008). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. 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 [bstoneburg@westerncentermuseum.org](mailto:bstoneburg@westerncentermuseum.org).

Sincerely,

A handwritten signature in black ink, appearing to read "Brittny Stoneburg".

Brittny Elizabeth Stoneburg, MSc  
Collections Manager



## APPENDIX D

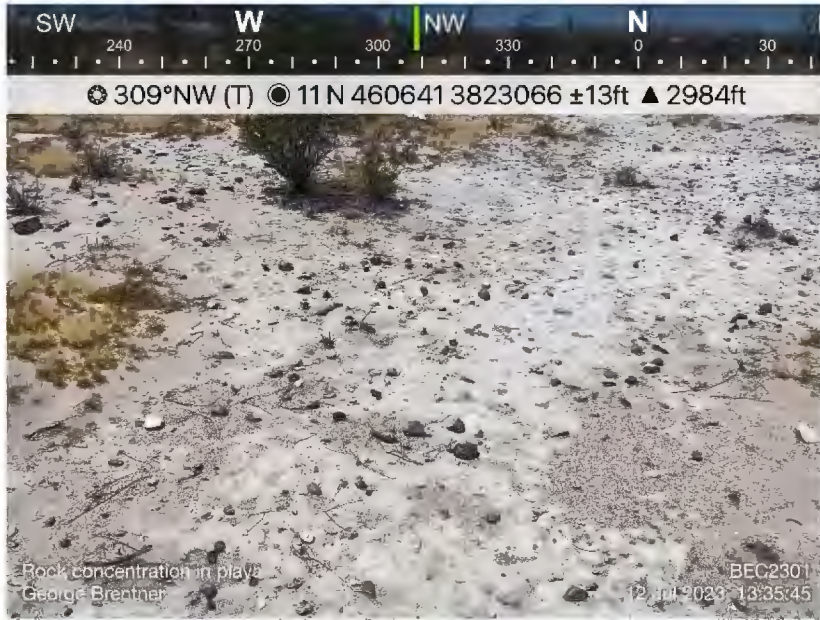
# PROJECT PHOTOGRAPHS



**Photo 1: Project Overview (View S)**



**Photo 2: Project Overview (View N)**



**Photo 3: Overview of Playa areas (View NW)**



**Photo 4: Project Overview (View N)**



**Photo 5:** Project Overview (View S)



**Photo 6:** Overview of Disturbance (View N)