

CULTURAL RESOURCES ASSESSMENT

Sangha Trucking Project Hesperia, San Bernardino County, California

Prepared for:

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BCRCONSULTING LLC

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MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Varinder Paul Sangha to complete a Cultural Resources Assessment of the Sangha Trucking Project (the project) located in the City of Hesperia (City), San Bernardino County, California. A cultural resources records search, intensive-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 results revealed that seven previous cultural resource studies have taken place, and three cultural resources have been identified within the 0.5-mile research radius. The project site has not been subject to previous cultural resource assessment, and no cultural resources have been identified within its boundaries. No potentially-significant cultural resources of any kind 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.

Sacred Lands File search with the NAHC findings are pending. The City will initiate Assembly Bill (AB) 52 Native American Consultation for the project. Since the City will initiate and carry out the required 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 B has recommended that:

The geologic units underlying the project area are mapped primarily as alluvial fan deposits from the Pleistocene epoch (Dibblee and Minch 2008). Pleistocene alluvial units are considered to be highly paleontologically sensitive. The Western Science Center does not have localities within the project area or within a 1 mile radius; however it does have localities in similarly mapped units across Southern California.

Any fossil specimen from the APN 3064-371-12 Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene alluvial units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the study area.

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

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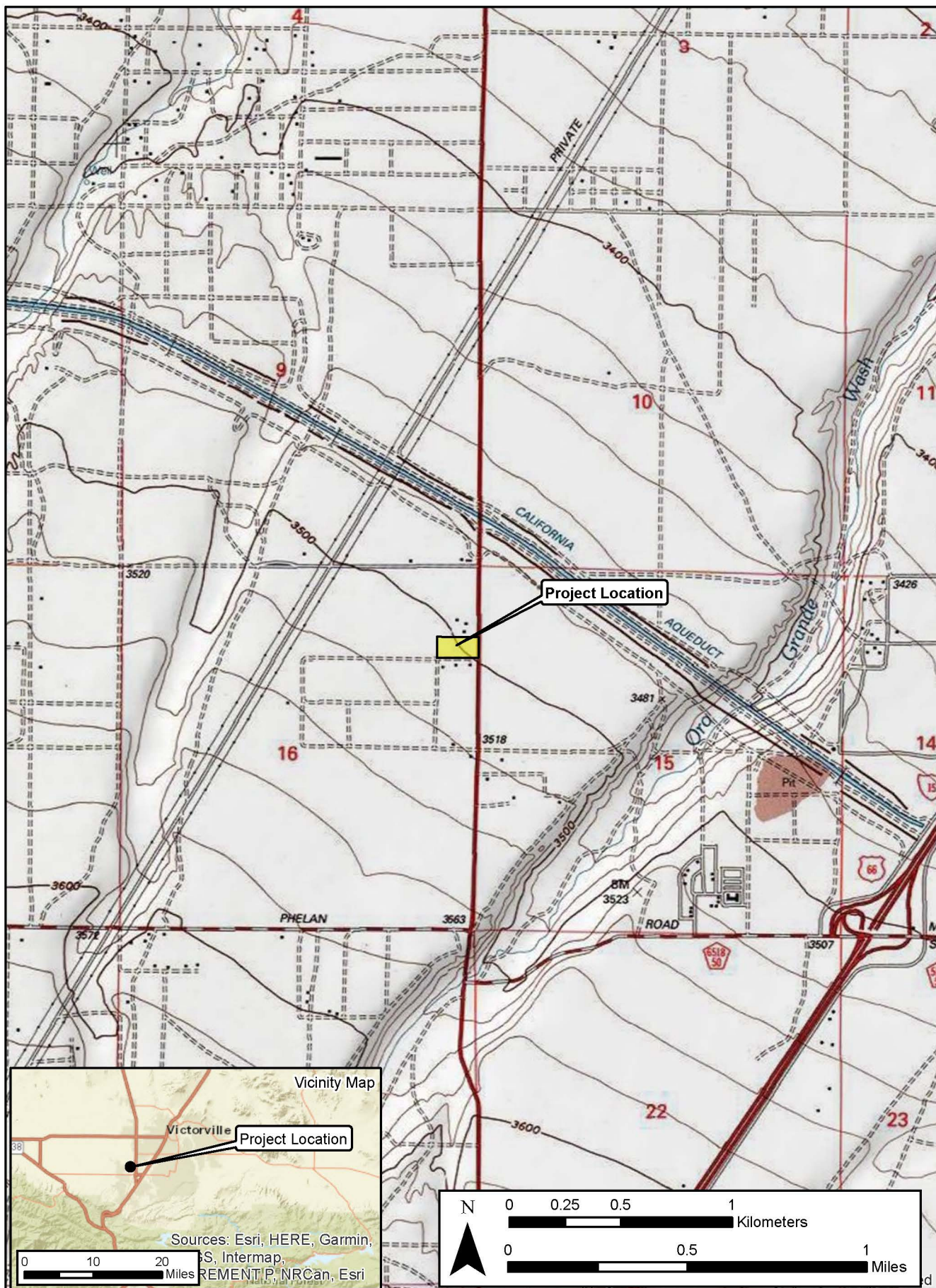
Regulatory Setting

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 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 B.

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 alluvial silt, sand, and gravel deposits dating from the Holocene Epoch of the Quaternary Period (Dibblee 1960). Field observations

during the current study are basically consistent with these descriptions, and are described further in Results, below.

Hydrology

The project elevation is approximately 3,230 feet above mean sea level (AMSL). The nearest water source is an intermittent drainage that flows from south to north approximately one half-mile west of the project site. To the south, 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 a relatively 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 this epoch attracted significant numbers of Rancholabrean 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, cheese bush, 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 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 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).

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 proceeded 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 19th 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/Principal Investigator for the current study, and authored the technical report. Mr. Brunzell performed the records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. BCR Consulting Staff Archaeologists Kainoa Heskett, B.A. and Fabian Reyes-Martinez, B.A. carried out the pedestrian field survey.

METHODS

Research

Mr. Brunzell completed an archaeological records search using SCCIC records of California State University, Fullerton for the current project. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within the project site boundaries and within a 0.5-mile radius of it. Additional resources reviewed included the National Register of Historic Places (National Register), the California Register, the Built Environmental Resource Directory (BERD), 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 intensive-level cultural resources field survey of the project site was conducted on September 16, 2022. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across the project site. All soil exposures were carefully inspected for evidence of cultural resources. Digital photographs were taken at various points within the project site.

RESULTS

Research

Data from the South Central Coastal Information Center (SCCIC) revealed that seven previous cultural resource studies have taken place, and three cultural resources have been identified within the 0.5-mile research radius. The project site has not been subject to previous cultural resource assessment, and no cultural resources have been identified within its boundaries. The records search results are summarized in Table A, and a bibliography is provided in Appendix D. Additional research through county assessor records has not indicated any developments or evidence for cultivation at the project site. Aerial photographs show a concrete foundation in the northeast portion of the project site that was present before 1952 (United States Department of Agriculture 1952).

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

USGS Quad	Cultural Resources	Studies
<i>Baldy Mesa, California</i> (1988)	P-36-7545: Historic-Period State Route 395 (Adjacent East) P-36-12635: Prehistoric Lithic Scatter (1/2 Mile NW) P-36-21351: Historic-Period Calif. Aqueduct (1/4 Mile N)	SB-191, 1219, 1220, 4281, 6333, 6602, 6652

*Previously Assessed Project Site for Cultural Resources

Field Survey

During the field survey, BCR Consulting archaeologists identified the concrete foundation indicated during the research (ibid.). It measures approximately 10 by 20 feet, is oriented north/south, and is composed of poor-quality concrete with a high percentage of gravel. It is plotted at UTM's 463254mE/3810820mN (NAD83). The purpose of this feature could not be determined. Based on the professional judgement of the author, it is not a historical resource and it does not warrant further recording or evaluation (see California Office of Historic Preservation 1995:2). No artifacts or other cultural resources of any kind were identified, despite nearly 100 percent surface visibility. The project site has been cleared of most vegetation although some low scrub brush is present. Sediment consisted of a yellowish-brown, dry, semi-loose sandy silt with minimal gravel. Surrounding vegetation was dominated by creosote scrub and Joshua trees. Disturbances were severe and have resulted from off-road vehicle use, mechanical vegetation clearing, and modern dumping.

RECOMMENDATIONS

BCR Consulting conducted a cultural resources assessment of the Sangha Trucking Project in the City of Hesperia, San Bernardino 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 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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- groundstone artifacts, including mortars, pestles, and grinding slabs;
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APPENDIX A

NATIVE AMERICAN HERITAGE COMMISSION CORRESPONDENCE



NATIVE AMERICAN HERITAGE COMMISSION

November 8, 2022

David Brunzell
BCR Consulting, LLC

Via Email to: bcrllc2008@gmail.com

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Laura Miranda
Luiseño

VICE CHAIRPERSON
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**Raymond C.
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NAHC HEADQUARTERS
1550 Harbor Boulevard
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West Sacramento,
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(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

Re: APN 3064-371-12 Project (SAN2201) Project, San Bernardino County

Dear Ms. 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.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

**Native American Heritage Commission
Native American Contact List
San Bernardino County
11/9/2022**

Agua Caliente Band of Cahuilla Indians

Reid Milanovich, Chairperson
5401 Dinah Shore Drive Cahuilla
Palm Springs, CA, 92264
Phone: (760) 699 - 6800
Fax: (760) 699-6919
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Agua Caliente Band of Cahuilla Indians

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Palm Springs, CA, 92264
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ACBCI-THPO@aguacaliente.net

Gabrieleno Band of Mission Indians - Kizh Nation

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Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians

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Gabrielino /Tongva Nation

Sandonne Goad, Chairperson
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Gabrielino Tongva Indians of California Tribal Council

Robert Dorame, Chairperson
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Gabrielino Tongva Indians of California Tribal Council

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Gabrielino-Tongva Tribe

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Kern Valley Indian Community

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Kern Valley Indian Community

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Morongo Band of Mission Indians

Robert Martin, Chairperson
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Banning, CA, 92220 Serrano
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abrierty@morongo-nsn.gov

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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed APN 3064-371-12 Project (SAN2201) Project, San Bernardino County.

**Native American Heritage Commission
Native American Contact List
San Bernardino County
11/9/2022**

Morongo Band of Mission Indians

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Cahuilla
Serrano

Santa Rosa Band of Cahuilla Indians

Lovina Redner, Tribal Chair
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Fax: (951) 659-2228
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Cahuilla

Quechan Tribe of the Fort Yuma Reservation

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Preservation Officer
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historicpreservation@quechantribe.com

Quechan

Serrano Nation of Mission Indians

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Serrano

Serrano Nation of Mission Indians

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Serrano

Quechan Tribe of the Fort Yuma Reservation

Manfred Scott, Acting Chairman
Kw'ts'an Cultural Committee
P.O. Box 1899
Yuma, AZ, 85366
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Quechan

Soboba Band of Luiseno Indians

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Resource Department
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Cahuilla
Luiseno

San Fernando Band of Mission Indians

Donna Yocum, Chairperson
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Kitanemuk
Vanyume
Tataviam

Soboba Band of Luiseno Indians

Isaiah Vivanco, Chairperson
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Phone: (951) 654 - 5544
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Cahuilla
Luiseno

San Manuel Band of Mission Indians

Jessica Mauck, Director of
Cultural Resources
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Phone: (909) 864 - 8933
Jessica.Mauck@sanmanuel-nsn.gov

Serrano

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed APN 3064-371-12 Project (SAN2201) Project, San Bernardino County.

**Native American Heritage Commission
Native American Contact List
San Bernardino County
11/9/2022**

***Twenty-Nine Palms Band of
Mission Indians***

Anthony Madrigal, Tribal Historic
Preservation Officer
46-200 Harrison Place Chemehuevi
Coachella, CA, 92236
Phone: (760) 775 - 3259
amadrigal@29palmsbomi-nsn.gov

***Twenty-Nine Palms Band of
Mission Indians***

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Fax: (760) 863-2449
29chairman@29palmsbomi-
nsn.gov

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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed APN 3064-371-12 Project (SAN2201) Project, San Bernardino County.

APPENDIX B

PALEONTOLOGICAL RESOURCES OVERVIEW



October 17th, 2022

BCR Consulting, LLC
Joseph Orozco
505 W. 8th St.
Claremont, CA 91711

Dear Mr. Orozco,

This letter presents the results of a record search conducted for the APN 3064-371-12 Project located in the city of Hesperia, San Bernardino County, CA. The project site is located north of Avenal Street, south of Smoke Tree Road, west of U.S. Route 395 and east of Merito Road on Township 4 North, Range 5 West, in Section 16 of the *Adelanto (1993)*, CA USGS 7.5 minute quadrangle.

The geologic units underlying the project area are mapped primarily as alluvial fan deposits from the Pleistocene epoch (Dibblee and Minch 2008). Pleistocene alluvial units are considered to be highly paleontologically sensitive. The Western Science Center does not have localities within the project area or within a 1 mile radius; however it does have localities in similarly mapped units across Southern California.

Any fossil specimen from the APN 3064-371-12 Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene alluvial units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the study area.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Brittney Stoneburg', with a stylized, flowing script.

Brittney Elizabeth Stoneburg, MSc
Collections Manager

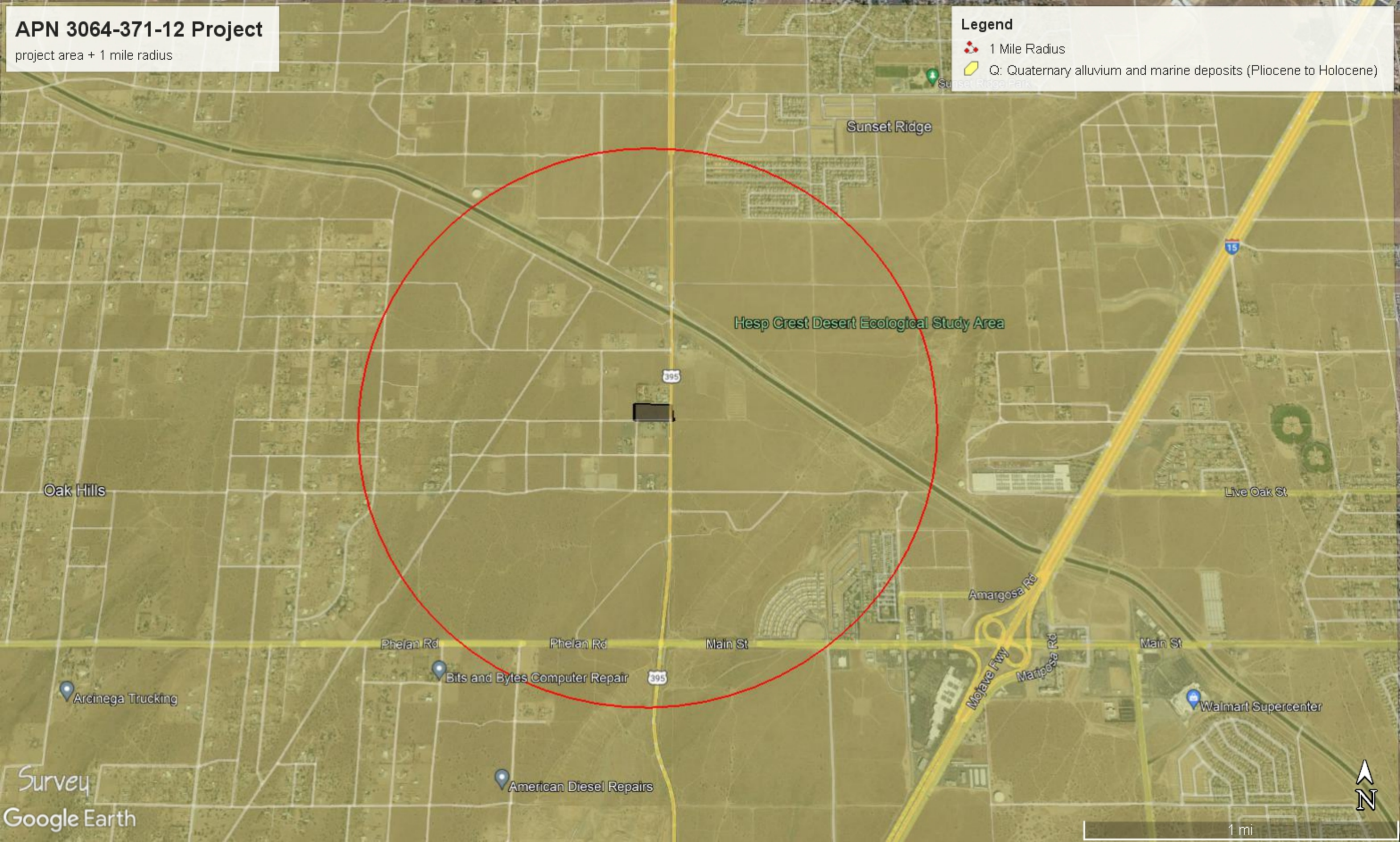
APN 3064-371-12 Project

project area + 1 mile radius

Legend

 1 Mile Radius

 Q: Quaternary alluvium and marine deposits (Pliocene to Holocene)



APPENDIX C

PROJECT PHOTOGRAPHS





APPENDIX D

RECORDS SEARCH BIBLIOGRAPHY

Report List

SAN2201

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-00191	NADB-R - 1060191; Voided - 73-12.2A	1973	SMITH, GERALD A.	ARCHAEOLOGICAL, HISTORICAL AND PALEONTOLOGICAL SITE SURVEY FOR COUNTY SERVICE AREA NO. 70 IMPROVEMENT ZONE "J", ASSESSMENT OF IMPACT AND RECOMMENDATIONS	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	36-002208
SB-01219	NADB-R - 1061219; Voided - 81-12.7	1981	HALL, MATTHEW C., PHILIP J. WILKE, DORAN L. CART, and JAMES D. SWENSON	AN ARCHAEOLOGICAL SURVEY OF THE PROPOSED SOUTHERN CALIFORNIA EDISON IVANPAH GENERATING STATION, PLANT SITE, AND RELATED RAIL, COAL SLURRY, WATER AND TRANSMISSION LINE CORRIDORS, SAN BERNARDINO COUNTY, CALIFORNIA, AND CLARK COUNTY, NEVADA	ARCHAEOLOGICAL RESEARCH UNIT, UCR	36-001065, 36-001066, 36-001933, 36-002131, 36-002402, 36-002690, 36-002978, 36-003728, 36-003729, 36-004590, 36-004693, 36-004694, 36-004695, 36-004696, 36-004697, 36-004698, 36-004699, 36-004700, 36-004701, 36-004702, 36-004703, 36-004704, 36-004705, 36-004706, 36-004707, 36-004708, 36-004709, 36-004710, 36-004711, 36-004712, 36-004713, 36-004714, 36-004715, 36-004716, 36-004717, 36-004718, 36-004719, 36-004720, 36-004721, 36-004722, 36-004723, 36-004724, 36-004725, 36-004726, 36-004888
SB-01220	NADB-R - 1061220; Voided - 81-12.7A	1981	BEAN, LOWELL JOHN, SYLVIA BRAKKE VANE, and JACKSON YOUNG	THE IVANPAH GENERATING STATION PROJECT: ETHNOGRAPHIC (NATIVE AMERICAN) RESOURCES	CULTURAL SYSTEMS RESEARCH, INC.	36-000058, 36-000060, 36-000063, 36-000064, 36-000065, 36-000072, 36-000176, 36-000182, 36-000204, 36-000206, 36-000207, 36-000458, 36-000786, 36-000821, 36-000938, 36-000983, 36-001888, 36-001961, 36-002110, 36-002129, 36-002142, 36-002240, 36-002554, 36-002643, 36-002646, 36-002704, 36-002707, 36-003489, 36-004703, 36-004726
SB-04281	NADB-R - 1064281	2004	CERRETO, RICHARD, CHRISTY MALAN, and KATHERINE WARD	CULTURAL RESOURCES ASSESSMENT FOR APN: 3064-481-12, CITY OF HESPERIA, SAN BERNARDINO COUNTY, CA. 16PP	ANALYTIC ARCHAEOLOGY	
SB-06333	NADB-R - 1066333	2005	HORNE, MELINDA C.	CULTURAL RESOURCES SURVEY FOR THE MOJAVE WATER AGENCY WATER BANKING PROJECT		36-000176

Report List

SAN2201

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-06602	NADB-R - 1066602; OHP OTIS Report Nbr - FCC090824Q	2009	Wlodarski, Robert J.	Cultural Resources Record Search and Archaeological Survey Results for the proposed Royal Street Communications, California, LLC, Site LAee28A (Vacant Lot TMO-Pine Colo) located at 9980 Lassen Street, Hesperia, San Bernardino County, California 92345.	HEART	
SB-06652	NADB-R - 1066652	2010	ESA	PRELIMINARY ARCHAEOLOGICAL SURVEY REPORT FOR 98 LINEAR MILES OF THE EAST BRANCH EXTENSION OF THE CALIFORNIA AQUEDUCT FOR THE DWR EAST BRNACH ENLARGEMENT PROJECT LOS ANGELES AND SAN BERNARDINO COUNTIES (CA)		36-002910, 36-021351, 36-021352, 36-021353, 36-021354, 36-021355, 36-021359, 36-021360, 36-021361, 36-021362, 36-021370, 36-021371, 36-021372

Resource List

SAN2201

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-007545	CA-SBR-007545H	Other - State Route 395/PM 29.3-PM 30, Adelanto; Resource Name - U.S. Highway 395; Other - GD-36-4; Other - Hwy 395	Structure	Historic	AH07; AH16; HP37	1993 (T Wahoff, L Peterson, Dames & Moore); 1996 (David Bricker, Caltrans District 8); 1997 (David Bricker, Caltrans District 8); 2000 (Dr J Underwood, S Rose, KEA Environmental); 2007 (Daniel Ballester, CRM Tech); 2007 (Daniel Ballester, CRM Tech); 2009 (Katherine Anderson, ESA); 2010 (Molly Valasik); 2010 (S. Jow, AECOM); 2013 (Linda Honey, Great Basin Sage, Inc); 2013 (D. Martinez, Far Western); 2014 (J Hall, C Morgan, LSA); 2020	SB-03070, SB-03112, SB-04290, SB-05116, SB-05698, SB-06224, SB-06860, SB-07081, SB-07156, SB-07381, SB-07495, SB-07570, SB-07895, SB-07944, SB-07971, SB-08031, SB-08090
P-36-012635		Resource Name - 5551-IF5	Other	Prehistoric	AP02	2006 (ROSS-HAUER, Chambers)	SB-04927
P-36-021351	CA-SBR-015913H	Resource Name - East Branch of the California Aqueduct; Other - Goodwin Drive/Goss Road Bridge; Other - Duncan Road Bridge; Other - Maple Avenue Bridge; Other - Mesquite Street Bridge; Other - Rancho Road Bridge; Other - SRI-5124; Other - CNX-19	Structure	Historic	AH06; HP19; HP20	2008 (Jeremy Hollins, URS); 2009 (ESA); 2011 (Kremkau, SRI); 2011 (Ambacher, AECOM); 2011 (Anderson, ESA); 2012 (M. O'Neill, Pacific Legacy); 2018 (Laura Voisin George, ASM); 2019	SB-06652, SB-07405