

A PHASE I CULTURAL RESOURCES SURVEY FOR THE REDLANDS INDUSTRIAL FACILITY PROJECT

PERRIS, CALIFORNIA

APNs 300-210-010 and -022

Submitted to:

**City of Perris
Planning and Development
135 North D Street
Perris, California 92570**

Prepared for:

**EPD Solutions
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Prepared by:

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May 5, 2022; Revised December 1, 2022

Archaeological Database Information

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Assessor's Parcel Number(s): 300-210-010 and -022

USGS Quadrangle: Section 17, Township 4 South, Range 3 West of the *Perris, California* (7.5-minute) quadrangle

Study Area: 6.91 gross-acre property located at the northeast corner of Redlands and Placentia avenues

Key Words: USGS *Perris* Quadrangle (7.5-minute); archaeological survey; negative; archaeological monitoring not recommended.

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I. INTRODUCTION AND MANAGEMENT SUMMARY

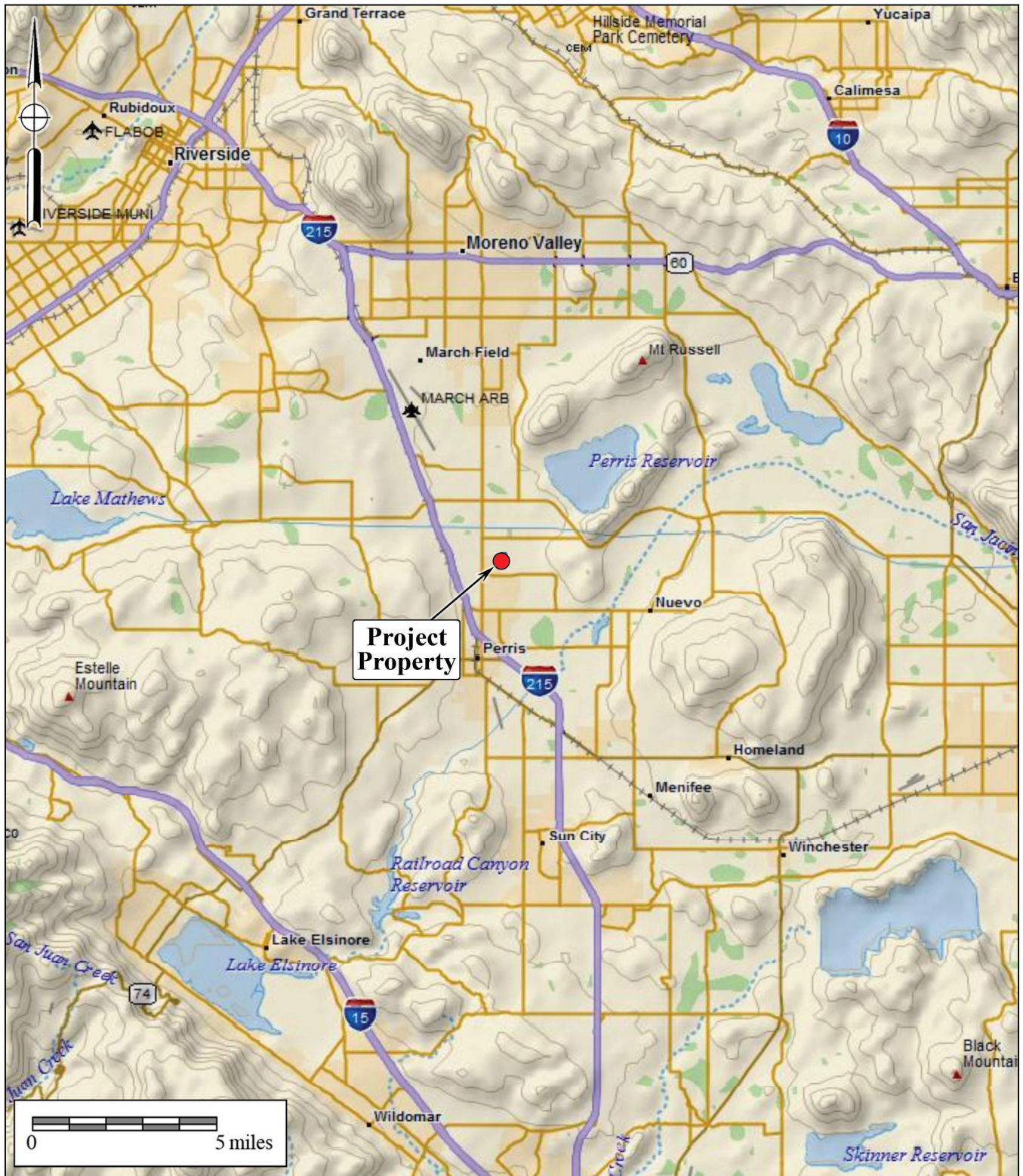
In response to a requirement by the City of Perris for the environmental assessment of a proposed industrial building site, Brian F. Smith and Associates, Inc. (BFSA) conducted an archaeological survey of the Redlands Industrial Facility Project property located within the Perris Valley Commerce Center (PVCC) Specific Plan area. The 6.91 gross-acre property located at the northeast corner of Redlands and Placentia avenues within the city of Perris, Riverside County, California (Figure 1). The subject property is situated southeast of March Air Reserve Base/Inland Port Airport and southwest of Lake Perris within Assessor's Parcel Numbers (APNs) 300-210-010 and -022. The property is located within Section 17, Township 4 South, Range 3 West of the USGS *Perris, California 7.5'* topographic quadrangle (Figure 2). The project applicant proposes the construction of an industrial warehouse building with office and mezzanine space, tractor-trailer loading docks, and associated parking and infrastructure (Figure 3). Historic aerial photographs show that a prefabricated residence and associated ancillary structure previously existed within the north half of the project (APN 300-210-010), which, according to Riverside County Assessor's data, were not constructed until 1983. At the time of the survey, all structures had been removed from the property.

The archaeological survey, which was conducted on February 9, 2022, was completed to determine if cultural resources exist within the property. The survey of the property did not result in the identification of any cultural resources. As a part of this study, a copy of this report will be submitted to the Eastern Information Center (EIC) at the University of California at Riverside (UCR). Qualifications of key BFSA staff involved in the preparation of this report can be found within Appendix A. All investigations conducted by BFSA related to this project conformed to CEQA and City of Perris environmental guidelines, including the PVCC Specific Plan Final Environmental Impact Report (FEIR).

II. SETTING

Natural Environment

Riverside County, including the city of Perris, lies in the Peninsular Ranges Geologic Province of southern California. This range, which lies in a northwest-to-southeast trend through the county, extends around 1,000 miles from the Raymond-Malibu Fault Zone in western Los Angeles County to the southern tip of Baja California. The subject property is situated within the Perris Valley and is generally flat, with elevations within the project averaging approximately 1,440 feet above mean sea level.



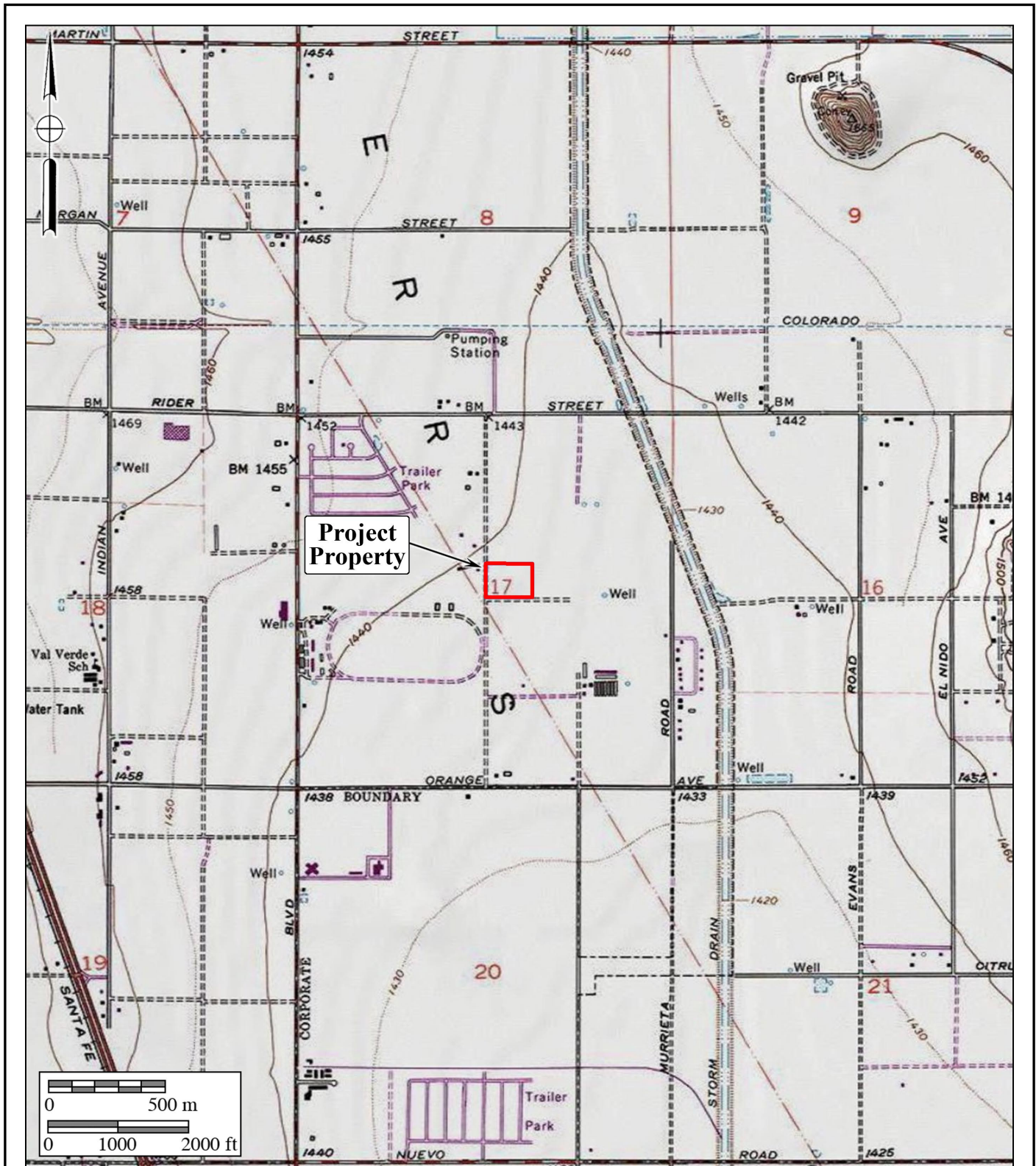
Project Property

Figure 1
General Location Map

The Redlands Industrial Facility Project

DeLorme (1:250,000)





Project Property

Figure 2

Project Location Map

The Redlands Industrial Facility Project

USGS *Perris* Quadrangle (7.5-minute series)



Geologically, the project property is located on Holocene and upper Pleistocene (present day to perhaps 120,000-year-old) young alluvial-valley deposits (Qy_{vsa}), composed of unconsolidated, gray silts and sands. These deposits overlie, at an unknown but likely shallow depth, older, lower Pleistocene (approximately 1.8 million to perhaps 500,000-year-old) very old alluvial-fan deposits (Qv_{ofa}), composed of “mostly well-dissected, well-indurated, reddish-brown sand deposits. Commonly contains duripans and locally silcretes” (Morton 2003). According to Woodford et al. (1971), the alluvium overlying the granitic bedrock below the property is approximately 450 feet thick. The specific soils in the property are comprised of Ramona sandy loam (RaA), 0 to 2 percent slopes, MLRA 19 (NRCS 2022).

The Perris Valley originally contained perennial grasses which have primarily been replaced by non-native weeds and grasses. Although not found within the subject property, the Riversidian sage scrub plant community is the most prevalent native vegetation found in the region. The Riversidian sage scrub is primarily found within adjacent Lakeview Mountains and Bernasconi Hills and includes desert encelia, brittle brush, sagebrush, black sage, white sage, buckwheat, foxtails, and cacti. Mammals within the region include mule deer (*Odocoileus hemionus*), coyote (*Canis latrans*), bobcat (*Lynx rufus*), mountain lion (*Puma concolor*), ground squirrel (*Otospermophilus beecheyi*), and quail (*Dipodomys*); birds include hawks and eagles (*Falconidae*), owls (*Tytonidae*), mourning dove (*Zenaida macroura*), mockingbird (*Mimus polyglottos*), jay (*Garrulus glandarius*), heron (*Ardeidae*), crow (*Corvus*), finch (*Fringillidae*), and sparrow (*Passer domesticus*).

Although the project property is located west of the man-made Perris Valley Storm Drain, the property does not contain any natural hydrologic features. The closest major natural source of water is the San Jacinto River located approximately three miles to the southeast. In addition, there are smaller seasonal drainages which transport water from the higher elevated foothills surrounding the Perris Reservoir approximately two miles northeast of the property.

During the prehistoric period, vegetation near the property provided sufficient food resources to support prehistoric human occupants. Animals that inhabited the property during prehistoric times included mammals such as rabbits, squirrels, gophers, mice, rats, deer, and coyotes, in addition to a variety of reptiles and amphibians. The natural setting of the property during the prehistoric occupation offered a rich nutritional resource base. Fresh water was likely obtainable from seasonal drainages and the San Jacinto River located southeast of the property.

Historically, the property was utilized for agriculture or ranching/grazing of livestock. Currently, the property consists of cleared vacant land. Further, the vegetation within the property at the time of the survey primarily consists of non-native trees, grasses, and weeds.

Cultural Setting – Archaeological Perspectives

The archaeological perspective seeks to reconstruct past cultures based upon the material remains left behind. This is done using a range of scientific methodologies, almost all of which draw from evolutionary theory as the base framework. Archaeology allows one to look deeper

into history or prehistory to see where the beginnings of ideas manifest themselves via analysis of material culture, allowing for the understanding of outside forces that shape social change. Thus, the archaeological perspective allows one to better understand the consequences of the history of a given culture upon modern cultures. Archaeologists seek to understand the effects of past contexts of a given culture on this moment in time, not culture in context *in* the moment.

Despite this, a distinction exists between “emic” and “etic” ways of understanding material culture, prehistoric lifeways, and cultural phenomena in general (Harris 1991). While “emic” perspectives serve the subjective ways in which things are perceived and interpreted by the participants within a culture, “etic” perspectives are those of an outsider looking in hopes of attaining a more scientific or “objective” understanding of the given phenomena. Archaeologists, by definition, will almost always serve an etic perspective as a result of the very nature of their work. As indicated by Laylander et al. (2014), it has sometimes been suggested that etic understanding, and therefore an archaeological understanding, is an imperfect and potentially ethnocentric attempt to arrive at emic understanding. In contrast to this, however, an etic understanding of material culture, cultural phenomena, and prehistoric lifeways can address significant dimensions of culture that lie entirely beyond the understanding or interest of those solely utilizing an emic perspective. As Harris (1991:20) appropriately points out, “Etic studies often involve the measurement and juxtaposition of activities and events that native informants find inappropriate or meaningless.” This is also likely true of archaeological comparisons and juxtapositions of material culture. However, culture as a whole does not occur in a vacuum and is the result of several millennia of choices and consequences influencing everything from technology, to religions, to institutions. Archaeology allows for the ability to not only see what came before, but to see how those choices, changes, and consequences affect the present. Where possible, archaeology should seek to address both emic and etic understandings to the extent that they may be recoverable from the archaeological record as manifestations of patterned human behavior (Laylander et al. 2014).

To that point, the culture history offered herein is primarily based upon archaeological (etic) and ethnographic (partially emic and partially etic) information. It is understood that the ethnographic record and early archaeological records were incompletely and imperfectly collected. In addition, in most cases, more than a century of intensive cultural change and cultural evolution had elapsed since the terminus of the prehistoric period. Coupled with the centuries and millennia of prehistoric change separating the “ethnographic present” from the prehistoric past, this has affected the emic and etic understandings of prehistoric cultural settings. Regardless, there remains a need to present the changing cultural setting within the region under investigation. As a result, both archaeological and Native American perspectives are offered when possible.

Introduction

Paleo Indian, Archaic Period Milling Stone Horizon, and the Late Prehistoric Takic groups are the three general cultural periods represented in Riverside County. The following discussion

of the cultural history of Riverside County references the San Dieguito Complex, Encinitas Tradition, Milling Stone Horizon, La Jolla Complex, Pauma Complex, and San Luis Rey Complex, since these culture sequences have been used to describe archaeological manifestations in the region. The Late Prehistoric component present in the Riverside County area was primarily represented by the Cahuilla, Gabrielino, and Luiseño Indians.

Absolute chronological information, where possible, will be incorporated into this archaeological discussion to examine the effectiveness of continuing to interchangeably use these terms. Reference will be made to the geological framework that divides the archaeologically-based culture chronology of the area into four segments: the late Pleistocene (20,000 to 10,000 years before the present [YBP]), the early Holocene (10,000 to 6,650 YBP), the middle Holocene (6,650 to 3,350 YBP), and the late Holocene (3,350 to 200 YBP).

Paleo Indian Period (Late Pleistocene: 11,500 to circa 9,000 YBP)

Archaeologically, the Paleo Indian Period is associated with the terminus of the late Pleistocene (12,000 to 10,000 YBP). The environment during the late Pleistocene was cool and moist, which allowed for glaciation in the mountains and the formation of deep, pluvial lakes in the deserts and basin lands (Moratto 1984). However, by the terminus of the late Pleistocene, the climate became warmer, which caused the glaciers to melt, sea levels to rise, greater coastal erosion, large lakes to recede and evaporate, extinction of Pleistocene megafauna, and major vegetation changes (Moratto 1984; Martin 1967, 1973; Fagan 1991). The coastal shoreline at 10,000 YBP, depending upon the particular area of the coast, was near the 30-meter isobath, or two to six kilometers further west than its present location (Masters 1983).

Paleo Indians were likely attracted to multiple habitat types, including mountains, marshlands, estuaries, and lakeshores. These people likely subsisted using a more generalized hunting, gathering, and collecting adaptation utilizing a variety of resources including birds, mollusks, and both large and small mammals (Erlandson and Colten 1991; Moratto 1984; Moss and Erlandson 1995).

Archaic Period (Early and Middle Holocene: circa 9,000 to 1,300 YBP)

Archaeological data indicates that between 9,000 and 8,000 YBP, a widespread complex was established in the southern California region, primarily along the coast (Warren and True 1961). This complex is locally known as the La Jolla Complex (Rogers 1939; Moriarty 1966), which is regionally associated with the Encinitas Tradition (Warren 1968) and shares cultural components with the widespread Milling Stone Horizon (Wallace 1955). The coastal expression of this complex appeared in southern California coastal areas and focused upon coastal resources and the development of deeply stratified shell middens that were primarily located around bays and lagoons. The older sites associated with this expression are located at Topanga Canyon, Newport Bay, Agua Hedionda Lagoon, and some of the Channel Islands. Radiocarbon dates from sites attributed to this complex span a period of over 7,000 years in this region, beginning over

9,000 YBP.

The Encinitas Tradition is best recognized for its pattern of large coastal sites characterized by shell middens, grinding tools that are closely associated with the marine resources of the area, cobble-based tools, and flexed human burials (Shumway et al. 1961; Smith and Moriarty 1985). While ground stone tools and scrapers are the most recognized tool types, coastal Encinitas Tradition sites also contain numerous utilized flakes, which may have been used to pry open shellfish. Artifact assemblages at coastal sites indicate a subsistence pattern focused upon shellfish collection and nearshore fishing. This suggests an incipient maritime adaptation with regional similarities to more northern sites of the same period (Koerper et al. 1986). Other artifacts associated with Encinitas Tradition sites include stone bowls, doughnut stones, discoidals, stone balls, and stone, bone, and shell beads.

The coastal lagoons in southern California supported large Milling Stone Horizon populations circa 6,000 YBP, as is shown by numerous radiocarbon dates from the many sites adjacent to the lagoons. The ensuing millennia were not stable environmentally, and by 3,000 YBP, many of the coastal sites in central San Diego County had been abandoned (Gallegos 1987, 1992). The abandonment of the area is usually attributed to the sedimentation of coastal lagoons and the resulting deterioration of fish and mollusk habitat, which is a well-documented situation at Batiquitos Lagoon (Miller 1966; Gallegos 1987). Over a two-thousand-year period at Batiquitos Lagoon, dominant mollusk species occurring in archaeological middens shift from deep-water mollusks (*Argopecten* sp.) to species tolerant of tidal flat conditions (*Chione* sp.), indicating water depth and temperature changes (Miller 1966; Gallegos 1987).

This situation likely occurred for other small drainages (Buena Vista, Agua Hedionda, San Marcos, and Escondido creeks) along the central San Diego coast where low flow rates did not produce sufficient discharge to flush the lagoons they fed (Buena Vista, Agua Hedionda, Batiquitos, and San Elijo lagoons) (Byrd 1998). Drainages along the northern and southern San Diego coastline were larger and flushed the coastal hydrological features they fed, keeping them open to the ocean and allowing for continued human exploitation (Byrd 1998). Peñasquitos Lagoon exhibits dates as late as 2,355 YBP (Smith and Moriarty 1985) and San Diego Bay showed continuous occupation until the close of the Milling Stone Horizon (Gallegos and Kyle 1988). Additionally, data from several drainages in Camp Pendleton indicate a continued occupation of shell midden sites until the close of the period, indicating that coastal sites were not entirely abandoned during this time (Byrd 1998).

By 5,000 YBP, an inland expression of the La Jolla Complex is evident in the archaeological record, exhibiting influences from the Campbell Tradition from the north. These inland Milling Stone Horizon sites have been termed “Pauma Complex” (True 1958; Warren et al. 1961; Meighan 1954). By definition, Pauma Complex sites share a predominance of grinding implements (manos and metates), lack mollusk remains, have greater tool variety (including atlatl dart points, quarry-based tools, and crescentics), and seem to express a more sedentary lifestyle with a subsistence economy based upon the use of a broad variety of terrestrial resources.

Although originally viewed as a separate culture from the coastal La Jolla Complex (True 1980), it appears that these inland sites may be part of a subsistence and settlement system utilized by the coastal peoples. Evidence from the 4S Project in inland San Diego County suggests that these inland sites may represent seasonal components within an annual subsistence round by La Jolla Complex populations (Raven-Jennings et al. 1996). Including both coastal and inland sites of this time period in discussions of the Encinitas Tradition, therefore, provides a more complete appraisal of the settlement and subsistence system exhibited by this cultural complex.

More recent work by Sutton has identified a more localized complex known as the Greven Knoll Complex. The Greven Knoll Complex is a redefined northern inland expression of the Encinitas Tradition first put forth by Mark Sutton and Jill Gardner (2010). Sutton and Gardner (2010:25) state that “[t]he early millingstone archaeological record in the northern portion of the interior southern California was not formally named but was often referred to as ‘Inland Millingstone,’ ‘Encinitas,’ or even ‘Topanga.’” Therefore, they proposed that all expressions of the inland Milling Stone in southern California north of San Diego County be grouped together in the Greven Knoll Complex.

The Greven Knoll Complex, as postulated by Sutton and Gardner (2010), is broken into three phases and obtained its name from the type-site Greven Knoll located in Yucaipa, California. Presently, the Greven Knoll Site is part of the Yukaipa’t Site (SBR-1000) and was combined with the adjacent Simpson Site. Excavations at Greven Knoll recovered manos, metates, projectile points, discoidal cogged stones, and a flexed inhumation with a possible cremation (Kowta 1969:39). It is believed that the Greven Knoll Site was occupied between 5,000 and 3,500 YBP. The Simpson Site contained mortars, pestles, side-notched points, and stone and shell beads. Based upon the data recovered at these sites, Kowta (1969:39) suggested that “coastal Milling Stone Complexes extended to and interdigitated with the desert Pinto Basin Complex in the vicinity of the Cajon Pass.”

Phase I of the Greven Knoll Complex is generally dominated by the presence of manos and metates, core tools, hammerstones, large dart points, flexed inhumations, and occasional cremations. Mortars and pestles are absent from this early phase, and the subsistence economy emphasized hunting. Sutton and Gardner (2010:26) propose that the similarity of the material culture of Greven Knoll Phase I and that found in the Mojave Desert at Pinto Period sites indicates that the Greven Knoll Complex was influenced by neighbors to the north at that time. Accordingly, Sutton and Gardner (2010) believe that Greven Knoll Phase I may have appeared as early as 9,400 YBP and lasted until about 4,000 YBP.

Greven Knoll Phase II is associated with a period between 4,000 and 3,000 YBP. Artifacts common to Greven Knoll Phase II include manos and metates, Elko points, core tools, and discoidals. Pestles and mortars are present; however, they are only represented in small numbers. Finally, there is an emphasis upon hunting and gathering for subsistence (Sutton and Gardner 2010:8).

Greven Knoll Phase III includes manos, metates, Elko points, scraper planes, choppers, hammerstones, and discoidals. Again, small numbers of mortars and pestles are present. Greven Knoll Phase III spans from approximately 3,000 to 1,000 YBP and shows a reliance upon seeds and yucca. Hunting is still important, but bones seem to have been processed to obtain bone grease more often in this later phase (Sutton and Gardner 2010:8).

The shifts in food processing technologies during each of these phases indicate a change in subsistence strategies; although people were still hunting for large game, plant-based foods eventually became the primary dietary resource (Sutton 2011a). Sutton's (2011b) argument posits that the development of mortars and pestles during the middle Holocene can be attributed to the year-round exploitation of acorns as a main dietary provision. Additionally, the warmer and drier climate may have been responsible for groups from the east moving toward coastal populations, which is archaeologically represented by the interchange of coastal and eastern cultural traits (Sutton 2011a).

Late Prehistoric Period (Late Holocene: 1,300 YBP to 1790)

Many Luiseño hold the world view that as a population they were created in southern California; however, archaeological and anthropological data proposes a scientific/archaeological perspective. Archaeological and anthropological evidence suggests that at approximately 1,350 YBP, Takic-speaking groups from the Great Basin region moved into Riverside County, marking the transition to the Late Prehistoric Period. An analysis of the Takic expansion by Sutton (2009) indicates that inland southern California was occupied by "proto-Yuman" populations before 1,000 YBP. The comprehensive, multi-phase model offered by Sutton (2009) employs linguistic, ethnographic, archaeological, and biological data to solidify a reasonable argument for population replacement of Takic groups to the north by Penutians (Laylander 1985). As a result, it is believed that Takic expansion occurred starting around 3,500 YBP moving toward southern California, with the Gabrielino language diffusing south into neighboring Yuman (Hokan) groups around 1,500 to 1,000 YBP, possibly resulting in the Luiseño dialect.

Based upon Sutton's model, the final Takic expansion would not have occurred until about 1,000 YBP, resulting in Vanyume, Serrano, Cahuilla, and Cupeño dialects. The model suggests that the Luiseño did not simply replace Hokan speakers but were rather a northern San Diego County/southern Riverside County Yuman population who adopted the Takic language. This period is characterized by higher population densities and elaborations in social, political, and technological systems. Economic systems diversified and intensified during this period with the continued elaboration of trade networks, the use of shell-bead currency, and the appearance of more labor-intensive, yet effective, technological innovations. Technological developments during this period included the introduction of the bow and arrow between A.D. 400 and 600 and the introduction of ceramics. Atlatl darts were replaced by smaller arrow darts, including Cottonwood series points. Other hallmarks of the Late Prehistoric Period include extensive trade networks as far-reaching as the Colorado River Basin and cremation of the dead.

Protohistoric Period (Late Holocene: 1542 to circa 1769)

Ethnohistoric and ethnographic evidence indicates that three Takic-speaking groups occupied portions of Riverside County: the Cahuilla, the Gabrielino, and the Luiseño. The geographic boundaries between these groups in pre- and proto-historic times are difficult to place, but the project is located well within the borders of ethnographic Luiseño territory. This group was a seasonal hunting and gathering people with cultural elements that were very distinct from Archaic Period peoples. These distinctions include cremation of the dead, the use of the bow and arrow, and exploitation of the acorn as a main food staple (Moratto 1984). Along the coast, the Luiseño made use of available marine resources by fishing and collecting mollusks for food. Seasonally available terrestrial resources, including acorns and game, were also sources of nourishment for Luiseño groups. Elaborate kinship and clan systems between the Luiseño and other groups facilitated a wide-reaching trade network that included trade of Obsidian Butte obsidian and other resources from the eastern deserts, as well as steatite from the Channel Islands.

According to Charles Handley (1967), the primary settlements of Late Prehistoric Luiseño Indians in the San Jacinto Plain were represented by Ivah and Soboba near Soboba Springs, Jusipah near the town of San Jacinto, Ararah in Webster's Canyon en route to Idyllwild, Pahsitha near Big Springs Ranch southeast of Hemet, and Corova in Castillo Canyon. These locations share features such as the availability of food and water resources. Features of this land use include petroglyphs and pictographs, as well as widespread milling, which is evident in bedrock and portable implements. Groups in the vicinity of the project, neighboring the Luiseño, include the Cahuilla and the Gabrielino. Ethnographic data for the three groups is presented below.

Luiseño: An Archaeological and Ethnographic Perspective

When contacted by the Spanish in the sixteenth century, the Luiseño occupied a territory bounded on the west by the Pacific Ocean, on the east by the Peninsular Ranges mountains at San Jacinto (including Palomar Mountain to the south and Santiago Peak to the north), on the south by Agua Hedionda Lagoon, and on the north by Aliso Creek in present-day San Juan Capistrano. The Luiseño were a Takic-speaking people more closely related linguistically and ethnographically to the Cahuilla, Gabrielino, and Cupeño to the north and east rather than the Kumeyaay who occupied territory to the south. The Luiseño differed from their neighboring Takic speakers in having an extensive proliferation of social statuses, a system of ruling families that provided ethnic cohesion within the territory, a distinct worldview that stemmed from the use of datura (a hallucinogen), and an elaborate religion that included the creation of sacred sand paintings depicting the deity Chingichngish (Bean and Shipek 1978; Kroeber 1976).

Subsistence and Settlement

The Luiseño occupied sedentary villages most often located in sheltered areas in valley bottoms, along streams, or along coastal strands near mountain ranges. Villages were located near water sources to facilitate acorn leaching and in areas that offered thermal and defensive

protection. Villages were composed of areas that were publicly and privately (by family) owned. Publicly owned areas included trails, temporary campsites, hunting areas, and quarry sites. Inland groups had fishing and gathering sites along the coast that were intensively used from January to March when inland food resources were scarce. During October and November, most of the village would relocate to mountain oak groves to harvest acorns. The Luiseño remained at village sites for the remainder of the year, where food resources were within a day's travel (Bean and Shipek 1978; Kroeber 1976).

The most important food source for the Luiseño was the acorn, six different species of which were used (*Quercus californica*, *Quercus agrifolia*, *Quercus chrysolepis*, *Quercus dumosa*, *Quercus engelmannii*, and *Quercus wislizenii*). Seeds, particularly of grasses, flowering plants, and mints, were also heavily exploited. Seed-bearing species were encouraged through controlled burns, which were conducted at least every third year. A variety of other stems, leaves, shoots, bulbs, roots, and fruits were also collected. Hunting augmented this vegetal diet. Animal species taken included deer, rabbit, hare, woodrat, ground squirrel, antelope, quail, duck, freshwater fish from mountain streams, marine mammals, and other sea creatures such as fish, crustaceans, and mollusks (particularly abalone, or *Haliotis* sp.). In addition, a variety of snakes, small birds, and rodents were eaten (Bean and Shipek 1978; Kroeber 1976).

Social Organization

Social groups within the Luiseño nation consisted of patrilinear families or clans, which were politically and economically autonomous. Several clans comprised a religious party, or nota, which was headed by a chief who organized ceremonies and controlled economics and warfare. The chief had assistants who specialized in particular aspects of ceremonial or environmental knowledge and who, with the chief, were part of a religion-based social group with special access to supernatural power, particularly that of Chingichngish. The positions of chief and assistants were hereditary, and the complexity and multiplicity of these specialists' roles likely increased in coastal and larger inland villages (Bean and Shipek 1978; Kroeber 1976; Strong 1929).

Marriages were arranged by the parents, often made to forge alliances between lineages. Useful alliances included those between groups of differing ecological niches and those that resulted in territorial expansion. Residence was patrilocal (Bean and Shipek 1978; Kroeber 1976). Women were primarily responsible for plant gathering and men principally hunted, although, at times, particularly during acorn and marine mollusk harvests, there was no division of labor. Elderly women cared for children and elderly men participated in rituals, ceremonies, and political affairs. They were also responsible for manufacturing hunting and ritual implements. Children were taught subsistence skills at the earliest age possible (Bean and Shipek 1978; Kroeber 1976).

Material Culture

House structures were conical, partially subterranean, and thatched with reeds, brush, or bark. Ramadas were rectangular, protected workplaces for domestic chores such as cooking.

Ceremonial sweathouses were important in purification rituals; these were round and partially subterranean thatched structures covered with a layer of mud. Another ceremonial structure was the wámkis (located in the center of the village, serving as the place of rituals), where sand paintings and other rituals associated with the Chingichngish religious group were performed (Bean and Shipek 1978; Kroeber 1976).

Clothing was minimal; women wore a cedar-bark and netted twine double apron and men wore a waist cord. In cold weather, cloaks or robes of rabbit fur, deerskin, or sea otter fur were worn by both sexes. Footwear included deerskin moccasins and sandals fashioned from yucca fibers. Adornments included bead necklaces and pendants made of bone, clay, stone, shell, bear claw, mica, deer hooves, and abalone shell. Men wore ear and nose piercings made from cane or bone, which were sometimes decorated with beads. Other adornments were commonly decorated with semiprecious stones including quartz, topaz, garnet, opal, opalite, agate, and jasper (Bean and Shipek 1978; Kroeber 1976).

Hunting implements included the bow and arrow. Arrows were tipped with either a carved, fire-hardened wood tip or a lithic point, usually fashioned from locally available metavolcanic material or quartz. Throwing sticks fashioned from wood were used in hunting small game, while deer head decoys were used during deer hunts. Coastal groups fashioned dugout canoes for nearshore fishing and harvested fish with seines, nets, traps, and hooks made of bone or abalone shell (Bean and Shipek 1978; Kroeber 1976).

The Luiseño had a well-developed basket industry. Baskets were used in resource gathering, food preparation, storage, and food serving. Ceramic containers were shaped by paddle and anvil and fired in shallow, open pits to be used for food storage, cooking, and serving. Other utensils included wood implements, steatite bowls, and ground stone manos, metates, mortars, and pestles (Bean and Shipek 1978; Kroeber 1976). Additional tools such as knives, scrapers, choppers, awls, and drills were also used. Shamanistic items include soapstone or clay smoking pipes and crystals made of quartz or tourmaline (Bean and Shipek 1978; Kroeber 1976).

Cahuilla: An Archaeological and Ethnographic Perspective

At the time of Spanish contact in the sixteenth century, the Cahuilla occupied territory that included the San Bernardino Mountains, Orocopia Mountain, and the Chocolate Mountains to the west, Salton Sea and Borrego Springs to the south, Palomar Mountain and Lake Mathews to the west, and the Santa Ana River to the north. The Cahuilla are a Takic-speaking people closely related to their Gabrielino and Luiseño neighbors, although relations with the Gabrielino were more intense than with the Luiseño. They differ from the Luiseño and Gabrielino in that their religion is more similar to the Mohave tribes of the eastern deserts than the Chingichngish religious group of the Luiseño and Gabrielino. The following is a summary of ethnographic data regarding this group (Bean 1978; Kroeber 1976).

Subsistence and Settlement

Cahuilla villages were typically permanent and located on low terraces within canyons in proximity to water sources. These locations proved to be rich in food resources and also afforded protection from prevailing winds. Villages had areas that were publicly owned and areas that were privately owned by clans, families, or individuals. Each village was associated with a particular lineage and series of sacred sites that included unique petroglyphs and pictographs. Villages were occupied throughout the year; however, during a several-week period in the fall, most of the village members relocated to mountain oak groves to take part in acorn harvesting (Bean 1978; Kroeber 1976).

The Cahuilla's use of plant resources is well documented. Plant foods harvested by the Cahuilla included valley oak acorns and single-leaf pinyon pine nuts. Other important plant species included bean and screw mesquite, agave, Mohave yucca, cacti, palm, chia, quail brush, yellowray goldfield, goosefoot, manzanita, catsclaw, desert lily, mariposa lily, and a number of other species such as grass seed. A number of agricultural domesticates were acquired from the Colorado River tribes including corn, bean, squash, and melon grown in limited amounts. Animal species taken included deer, bighorn sheep, pronghorn antelope, rabbit, hare, rat, quail, dove, duck, roadrunner, and a variety of rodents, reptiles, fish, and insects (Bean 1978; Kroeber 1976).

Social Organization

The Cahuilla was not a political nation, but rather a cultural nationality with a common language. Two non-political, non-territorial patrimoieties were recognized: the Wildcats (túktem) and the Coyotes (?ístam). Lineage and kinship were memorized at a young age among the Cahuilla, providing a backdrop for political relationships. Clans were composed of three to 10 lineages; each lineage owned a village site and specific resource areas. Lineages within a clan cooperated in subsistence activities, defense, and rituals (Bean 1978; Kroeber 1976).

A system of ceremonial hierarchy operated within each lineage. The hierarchy included the lineage leader, who was responsible for leading subsistence activities, guarding the sacred bundle, and negotiating with other lineage leaders in matters concerning land use, boundary disputes, marriage arrangements, trade, warfare, and ceremonies. The ceremonial assistant to the lineage leader was responsible for organizing ceremonies. A ceremonial singer possessed and performed songs at rituals and trained assistant singers. The shaman cured illnesses through supernatural powers, controlled natural phenomena, and was the guardian of ceremonies, keeping evil spirits away. The diviner was responsible for finding lost objects, telling future events, and locating game and other food resources. Doctors were usually older women who cured various ailments and illnesses with their knowledge of medicinal herbs. Finally, certain Cahuilla specialized as traders, who ranged as far west as Santa Catalina and as far east as the Gila River (Bean 1978; Kroeber 1976).

Marriages were arranged by parents from opposite moieties. When a child was born, an alliance formed between the families, which included frequent reciprocal exchanges. The Cahuilla

kinship system extended to relatives within five generations. Important economic decisions, primarily the distribution of goods, operated within this kinship system (Bean 1978; Kroeber 1976).

Material Culture

Cahuilla houses were dome-shaped or rectangular, thatched structures. The home of the lineage leader was the largest, located near the ceremonial house with the best access to water. Other structures within the village included the men's sweathouse and granaries (Bean 1978; Kroeber 1976).

Cahuilla clothing, like other groups in the area, was minimal. Men typically wore a loincloth and sandals; women wore skirts made from mesquite bark, animal skin, or tules. Babies wore mesquite bark diapers. Rabbit skin cloaks were worn in cold weather (Bean 1978; Kroeber 1976).

Hunting implements included the bow and arrow, throwing sticks, and clubs. Grinding tools used in food processing included manos, metates, and wood mortars. The Cahuilla were known to use long grinding implements made from wood to process mesquite beans; the mortar was typically a hollowed log buried in the ground. Other tools included steatite arrow shaft straighteners (Bean 1978; Kroeber 1976).

Baskets were made from rush, deer grass, and skunkbrush. Different species and leaves were chosen for different colors in the basket design. Coiled-ware baskets were either flat (for plates, trays, or winnowing), bowl-shaped (for food serving), deep, inverted, and cone-shaped (for transporting), or rounded and flat-bottomed for storing utensils and personal items (Bean 1978; Kroeber 1976).

Cahuilla pottery was made from a thin, red-colored ceramic ware that was often painted and incised. Four basic vessel types are known for the Cahuilla: small-mouthed jars, cooking pots, bowls, and dishes. Additionally, smoking pipes and flutes were fashioned from ceramic (Bean 1978; Kroeber 1976).

Gabrielino: An Archaeological and Ethnographic Perspective

The territory of the Gabrielino at the time of Spanish contact covers much of present-day Los Angeles and Orange counties. The southern extent of this culture area is bounded by Aliso Creek, the eastern extent is located east of present-day San Bernardino along the Santa Ana River, the northern extent includes the San Fernando Valley, and the western extent includes portions of the Santa Monica Mountains. The Gabrielino also occupied several Channel Islands including Santa Barbara Island, Santa Catalina Island, San Nicholas Island, and San Clemente Island. Because of their access to certain resources, including a steatite source from Santa Catalina Island, this group was among the wealthiest and most populous aboriginal groups in all of southern California. Trade of materials and resources controlled by the Gabrielino extended as far north as the San Joaquin Valley, as far east as the Colorado River, and as far south as Baja California (Bean

and Smith 1978; Kroeber 1976).

Subsistence and Settlement

The Gabrielino lived in permanent villages and occupied smaller resource-gathering camps at various times of the year depending upon the seasonality of the resource. Larger villages were comprised of several families or clans, while smaller, seasonal camps typically housed smaller family units. The coastal area between San Pedro and Topanga Canyon was the location of primary subsistence villages, while secondary sites were located near inland sage stands, oak groves, and pine forests. Permanent villages were located along rivers and streams and in sheltered areas along the coast. As previously mentioned, the Channel Islands were also the locations of relatively large settlements (Bean and Smith 1978; Kroeber 1976).

Resources procured along the coast and on the islands were primarily marine in nature and included tuna, swordfish, ray and shark, California sea lion, Stellar sea lion, harbor seal, northern elephant seal, sea otter, dolphin and porpoise, various waterfowl species, numerous fish species, purple sea urchin, and mollusks, such as rock scallop, California mussel, and limpet. Inland resources included oak acorn, pine nut, Mohave yucca, cacti, sage, grass nut, deer, rabbit, hare, rodent, quail, duck, and a variety of reptiles such as western pond turtle and numerous snake species (Bean and Smith 1978; Kroeber 1976).

Social Organization

The social structure of the Gabrielino is little known; however, there appears to have been at least three social classes: 1) the elite, which included the rich, chiefs, and their immediate family; 2) a middle class, which included people of relatively high economic status or long-established lineages; and 3) a class of people that included most other individuals in the society. Villages were politically autonomous units comprised of several lineages. During times of the year when certain seasonal resources were available, the village would divide into lineage groups and move out to exploit them, returning to the village between forays (Bean and Smith 1978; Kroeber 1976).

Each lineage had its own leader, with the village chief coming from the dominant lineage. Several villages might be allied under a paramount chief. Chiefly positions were of an ascribed status, most often passed to the eldest son. Chiefly duties included providing village cohesion, leading warfare and peace negotiations with other groups, collecting tribute from the village(s) under his jurisdiction, and arbitrating disputes within the village(s). The status of the chief was legitimized by his safekeeping of the sacred bundle, a representation of the link between the material and spiritual realms and the embodiment of power (Bean and Smith 1978; Kroeber 1976).

Shamans were leaders in the spirit realm. The duties of the shaman included conducting healing and curing ceremonies, guarding the sacred bundle, locating lost items, identifying and collecting poisons for arrows, and making rain (Bean and Smith 1978; Kroeber 1976).

Marriages were made between individuals of equal social status and, in the case of powerful lineages, marriages were arranged to establish political ties between the lineages (Bean

and Smith 1978; Kroeber 1976).

Men conducted the majority of the heavy labor, hunting, fishing, and trading with other groups. Women's duties included gathering and preparing plant and animal resources, and making baskets, pots, and clothing (Bean and Smith 1978; Kroeber 1976).

Material Culture

Gabrielino houses were domed, circular structures made of thatched vegetation. Houses varied in size and could house from one to several families. Sweathouses (semicircular, earth-covered buildings) were public structures used in male social ceremonies. Other structures included menstrual huts and a ceremonial structure called a yuvar, an open-air structure built near the chief's house (Bean and Smith 1978; Kroeber 1976).

Clothing was minimal; men and children most often went naked, while women wore deerskin or bark aprons. In cold weather, deerskin, rabbit fur, or bird skin (with feathers intact) cloaks were worn. Island and coastal groups used sea otter fur for cloaks. In areas of rough terrain, yucca fiber sandals were worn. Women often used red ochre on their faces and skin for adornment or protection from the sun. Adornment items included feathers, fur, shells, and beads (Bean and Smith 1978; Kroeber 1976).

Hunting implements included wood clubs, sinew-backed bows, slings, and throwing clubs. Maritime implements included rafts, harpoons, spears, hook and line, and nets. A variety of other tools included deer scapulae saws, bone and shell needles, bone awls, scrapers, bone or shell flakers, wedges, stone knives and drills, metates, mullers, manos, shell spoons, bark platters, and wood paddles and bowls. Baskets were made from rush, deer grass, and skunkbush. Baskets were fashioned for hoppers, plates, trays, and winnowers for leaching, straining, and gathering. Baskets were also used for storing, preparing, and serving food, and for keeping personal and ceremonial items (Bean and Smith 1978; Kroeber 1976).

The Gabrielino had exclusive access to soapstone, or steatite, procured from Santa Catalina Island quarries. This highly prized material was used for making pipes, animal carvings, ritual objects, ornaments, and cooking utensils. The Gabrielino profited well from trading steatite since it was valued so much by groups throughout southern California (Bean and Smith 1978; Kroeber 1976).

Ethnohistoric Period (1769 to Present)

Traditionally, the history of the state of California has been divided into three general periods: the Spanish Period (1769 to 1821), the Mexican Period (1822 to 1846), and the American Period (1848 to present) (Caughey 1970). The American Period is often further subdivided into additional phases: the nineteenth century (1848 to 1900), the early twentieth century (1900 to 1950), and the Modern Period (1950 to present). From an archaeological standpoint, all of these phases can be referred to together as the Ethnohistoric Period. This provides a valuable tool for archaeologists, as ethnohistory is directly concerned with the study of indigenous or non-Western

peoples from a combined historical/anthropological viewpoint, which employs written documents, oral narrative, material culture, and ethnographic data for analysis.

European exploration along the California coast began in 1542 with the landing of Juan Rodriguez Cabrillo and his men at San Diego Bay. Sixty years after the Cabrillo expeditions, an expedition under Sebastian Viscaíno made an extensive and thorough exploration of the Pacific coast. Although the voyage did not extend beyond the northern limits of the Cabrillo track, Viscaíno had the most lasting effect upon the nomenclature of the coast. Many of his place names have survived, whereas practically every one of the names created by Cabrillo have faded from use. For instance, Cabrillo named the first (now) United States port he stopped at “San Miguel”; 60 years later, Viscaíno changed it to “San Diego” (Rolle 1969). The early European voyages observed Native Americans living in villages along the coast but did not make any substantial, long-lasting impact. At the time of contact, the Luiseño population was estimated to have ranged from 4,000 to as many as 10,000 individuals (Bean and Shipek 1978; Kroeber 1976).

The historic background of the project area began with the Spanish colonization of Alta California. The first Spanish colonizing expedition reached southern California in 1769 with the intention of converting and civilizing the indigenous populations, as well as expanding the knowledge of and access to new resources in the region (Brigandi 1998). As a result, by the late eighteenth century, a large portion of southern California was overseen by Mission San Luis Rey (San Diego County), Mission San Juan Capistrano (Orange County), and Mission San Gabriel (Los Angeles County). Subsequently, the missions began colonizing the region and surrounding areas (Chapman 1921).

Up until this time, the only known way to feasibly travel from Sonora to Alta California was by sea. In 1774, Juan Bautista de Anza, an army captain at Tubac, requested and was given permission by the governor of the Mexican State of Sonora to establish an overland route from Sonora to Monterey (Chapman 1921). In doing so, Juan Bautista de Anza passed through Riverside County and described the area in writing for the first time (Caughey 1970; Chapman 1921). In 1797, Father Presidente Lausen (of Mission San Diego de Alcalá), Father Norberto de Santiago, and Corporal Pedro Lisalde (of Mission San Juan Capistrano) led an expedition through southwestern Riverside County in search of a new mission site to establish a presence between San Diego and San Juan Capistrano (Engelhardt 1921). Their efforts ultimately resulted in the establishment of Mission San Luis Rey in Oceanside, California.

Each mission gained power through the support of a large, subjugated Native American workforce. As the missions grew, livestock holdings increased and became increasingly vulnerable to theft. In order to protect their interests, the southern California missions began to expand inland to try and provide additional security (Beattie and Beattie 1939; Caughey 1970). In order to meet their needs, the Spaniards embarked on a formal expedition in 1806 to find potential locations within what is now the San Bernardino Valley. As a result, by 1810, Father Francisco Dumetz of Mission San Gabriel had succeeded in establishing a religious site, or capilla, at a Cahuilla rancheria called Guachama (Beattie and Beattie 1939). San Bernardino Valley received

its name from this site, which was dedicated to San Bernardino de Siena by Father Dumetz. The Guachama rancheria was located in present-day Bryn Mawr in San Bernardino County.

These early colonization efforts were followed by the establishment of estancias at Puente (circa 1816) and San Bernardino (circa 1819) near Guachama (Beattie and Beattie 1939). These efforts were soon mirrored by the Spaniards from Mission San Luis Rey, who in turn established a presence in what is now Lake Elsinore, Temecula, and Murrieta (Chapman 1921). The indigenous groups who occupied these lands were recruited by missionaries, converted, and put to work in the missions (Pourade 1961). Throughout this period, the Native American populations were decimated by introduced diseases, a drastic shift in diet resulting in poor nutrition, and social conflicts due to the introduction of an entirely new social order (Cook 1976).

Mexico achieved independence from Spain in 1822 and became a federal republic in 1824. As a result, both Baja and Alta California became classified as territories (Rolle 1969). Shortly thereafter, the Mexican Republic sought to grant large tracts of private land to its citizens to begin to encourage immigration to California and to establish its presence in the region. Although a number of similar land grants originally were issued under the Spanish, the Mexican government greatly expanded the process, issuing 50 land grants between 1822 and 1832 (Library of Congress, General Collections 2021). Part of the establishment of power and control included the desecularization of the missions circa 1832. These same missions were also located on some of the most fertile land in California and, as a result, were considered highly valuable. The resulting land grants, known as “ranchos,” covered expansive portions of California and by 1846, more than 600 land grants had been issued by the Mexican government (Library of Congress, General Collections 2021). Rancho Jurupa was the first rancho to be established and was issued to Juan Bandini in 1838. Although Bandini primarily resided in San Diego, Rancho Jurupa was located in what is now Riverside County (Pourade 1963). A review of Riverside County place names quickly illustrates that many of the ranchos in Riverside County lent their names to present-day locations, including Jurupa, El Rincon, La Sierra, El Sobrante de San Jacinto, La Laguna (Lake Elsinore), Santa Rosa, Temecula, Pauba, San Jacinto Nuevo y Potrero, and San Jacinto Viejo (Gunther 1984). As was typical of many ranchos, these were all located in the valley environments within western Riverside County.

The treatment of Native Americans grew worse during the Rancho Period. Most of the Native Americans were forced off of their land or put to work on the now privately-owned ranchos, most often as slave labor. In light of the brutal ranchos, the degree to which Native Americans had become dependent upon the mission system was made evident when, in 1838, a group of Native Americans from Mission San Luis Rey petitioned government officials in San Diego to relieve suffering at the hands of the rancheros:

We have suffered incalculable losses, for some of which we are in part to be blamed for because many of us have abandoned the Mission ... We plead and beseech you ... to grant us a Rev. Father for this place. We have been accustomed to the Rev.

Fathers and to their manner of managing the duties. We labored under their intelligent directions, and we were obedient to the Fathers according to the regulations, because we considered it as good for us. (Brigandi 1998:21)

Native American culture had been disrupted to the point where they could no longer rely upon prehistoric subsistence and social patterns. Not only does this illustrate how dependent the Native Americans had become upon the missionaries, but it also indicates a marked contrast in the way the Spanish treated the Native Americans compared to the Mexican and United States ranchers. Spanish colonialism (missions) utilized human resources while integrating them into their society. The Mexican and American ranchers did not accept Native Americans into their social order and used them specifically for the extraction of labor, resources, and profit. Rather than being incorporated, they were either subjugated or exterminated (Cook 1976).

By 1846, tensions between the United States and Mexico had escalated to the point of war (Rolle 1969). In order to reach a peaceful agreement, the Treaty of Guadalupe Hidalgo was put into effect in 1848, which resulted in the annexation of California to the United States. Once California opened to the United States, waves of settlers moved in searching for gold mines, business opportunities, political opportunities, religious freedom, and adventure (Rolle 1969; Caughey 1970). By 1850, California had become a state and was eventually divided into 27 separate counties. While a much larger population was now settling in California, this was primarily in the central valley, San Francisco, and the Gold Rush region of the Sierra Nevada Mountain range (Rolle 1969; Caughey 1970). During this time, southern California grew at a much slower pace than northern California and was still dominated by the cattle industry established during the earlier rancho period. However, by 1859, the first United States Post Office in what would eventually become Riverside County was set up at John Magee's store on the Temecula Rancho (Gunther 1984).

During the same decade, circa 1852, the Native Americans of southern Riverside County, including the Luiseño and the Cahuilla, thought they had signed a treaty resulting in their ownership of all lands from Temecula to Aguanga east to the desert, including the San Jacinto Valley and the San Gorgonio Pass. The Temecula Treaty also included food and clothing provisions for the Native Americans. However, Congress never ratified these treaties, and the promise of one large reservation was rescinded (Brigandi 1998).

With the completion of the Southern Pacific Railroad in 1869, southern California saw its first major population expansion. The population boom continued circa 1874 with the completion of connections between the Southern Pacific Railroad in Sacramento to the transcontinental Central Pacific Railroad in Los Angeles (Rolle 1969; Caughey 1970). The population influx brought farmers, land speculators, and prospective developers to the region. As the Jurupa area became more and more populated, circa 1870, Judge John Wesley North and a group of associates founded the city of Riverside on part of the former rancho.

Although the first orange trees were planted in Riverside County circa 1871, it was not until a few years later when a small number of Brazilian navel orange trees were established that the citrus industry truly began in the region (Patterson 1971). The Brazilian navel orange was well suited to the climate of Riverside County and thrived with assistance from several extensive irrigation projects. At the close of 1882, an estimated half a million citrus trees were present in California. It is estimated that nearly half of that population was in Riverside County. Population growth and 1880s tax revenue from the booming citrus industry prompted the official formation of Riverside County in 1893 out of portions of what was once San Bernardino County (Patterson 1971).

Shortly thereafter, with the start of World War I, the United States began to develop a military presence in Riverside County with the construction of March Air Reserve Base. During World War II, Camp Anza and Camp Haan were constructed, with the former located in the western part of the city of Riverside and the latter in what is now the current location of the National Veteran's Cemetery. In the decades that followed, populations spread throughout the county into Lake Elsinore, Corona, Norco, Murrieta, and Wildomar. However, a significant portion of the county remained largely agricultural well into the 1970s. Following the 1970s, Riverside saw a period of dramatic population increase as the result of new development, more than doubling the population of the county with a population of over 1.3 million residents (Patterson 1971).

History of the City of Perris

The project is located within the former Rancho San Jacinto Nuevo y Portrero land grant. The rancho was granted to Miguel Pedorena by Mexican Governor Pío Pico in 1846 (Hoffman 1862). After Pedorena's death in 1850, the grant passed to his heirs under the guardianship of T.W. Sutherland (Gunther 1984).

In 1881, the California Southern Railroad laid the tracks for the transcontinental route of the Santa Fe Railway through the plains, west of the project. At this time, the area where the railroad was placed was referred to as the San Jacinto Plains. Surveying and construction of the railroad route was led by Frederick Thomas Perris, for whom the city of Perris was named. The railroad was completed in 1882, which allowed hundreds of settlers to enter the area for homesteading, most of them settling in Pinacate to the south (City of Perris 2013).

While still part of San Diego County, Rancho San Jacinto Nuevo y Portrero was patented to T.W. Sutherland, guardian of Miguel Pedorena's children, in 1883 (Robinson 1997). In 1885, the citizens of Pinacate gathered together to create a more conveniently located station along the railroad route, and in 1886, after much hard work, the town site of Perris was established (City of Perris 2013). In 1911, Perris became an incorporated city, relying heavily upon dry grain farming and citrus groves (City of Perris 2013).

History of the Project Area

The subject property is located outside of the originally-delineated city of Perris. However, this area has traditionally been associated with the city and historically part of its sphere of influence. Starting in the late nineteenth century and extending through the twentieth century, this region was mainly an agricultural community. When first subdivided, the project was originally held by the Perris Irrigation District, also known as the Perris Land Company. Throughout the early twentieth century, the holdings of the Perris Land Company were subdivided, with the current project being described as a portion of Lot 2, Section 17, Township 4 South, Range 3 West of the Perris Valley Land and Water Company Tract, subdivided in 1909 (Riverside County Records MB7/38).

In addition to the Perris Valley Land and Water Company Tract, another influential subdivision in the region was the Riverside Tract. The name of the tract was dictated by the investors, almost all of which resided in the city of Riverside (Gunther 1984). The land was laid out in 80-acre blocks which were subdivided into ten-acre lots. The farm lots were sold off to farmers and speculators alike. Investors were guaranteed of the success of the Perris Irrigation District; however, by 1900, many of the properties had failed as farmers could not obtain steady access to water.

Although the Perris Irrigation District was not as successful as originally predicted, traditionally, the area did remain agricultural throughout the twentieth century. Due to the limited groundwater, dry grain farming was the main crop until the 1950s, when the Eastern Municipal Water District began constructing infrastructure to better distribute water to the region. With better access to water, alfalfa, the King potato (which would produce two crops a year), and sugar beets became the mainstay of farming the Perris Valley (City of Perris n.d.).

The general area also was influenced by the development of March Field during the twentieth century. March Field was originally established on March 1, 1918 as the Alessandro Flying Training Field following the United States' entry into World War I (Gunther 1984). The name was officially changed to March Field on March 20, 1918 in honor of Peyton C. March, Jr., who had been killed in a training plane crash in Fort Worth, Texas earlier that year. The air field changed names many times throughout the 1940s. In 1941, the name was changed to March Army Air Field; in 1942, to March Army Air Base; in 1947, to March Army Air Force Base to reflect the establishment of the United States Air Force; and finally to March Air Reserve Base/Inland Port Airport in 1996 (March Field Air Museum 2020). Although the official name changed multiple times, residents have continued to refer to it as "March Field" (Gunther 1984).

The establishment of March Field was important to the region for many reasons associated with the role the local inhabitants and region would contribute to World War I and World War II. However, farming continued to be important to the region. During the mid- to late twentieth century, the Riverside County Flood Control and the Metropolitan Water District (MWD) began to establish storm drains and new modern water conveyance systems. The establishment of these modern water conveyance systems allowed farmers to better manage water on their land (City of

Perris n.d.; Environmental Science Associates 2016; MWD n.d.).

Although Perris generally remained agricultural throughout the twentieth century, in recent years, the city has seen a growth in residential and industrial development. Today, many of the large agricultural fields have been developed into large logistics centers and warehouses servicing the greater Southern California region.

History of Development Within the Project

The 6.91 gross-acre property was originally situated within the southwestern section of the Perris Valley Land and Water Company Tract, Lot 2, Section 17, Township 4 South, Range 3 West. The property has been subdivided multiple times since Lot 2 was created. In 1972, the property, along with adjacent parcels, was annexed by the City of Perris (Riverside County Transportation and Land Management Agency [TLMA] Hanging Files). Shortly thereafter, in 1975, Lot 2 was subdivided into four parcels. The property was further subdivided in 1978, which created the current parcel boundaries.

A review of historic aerial photographs indicates that, historically, the property has primarily consisted of vacant undeveloped land since at least 1938. Rows of crops are visible within the project on the 1953 aerial photograph; however, subsequent photographs show the property as vacant and devoid of crops and structures through 1978. By the 1997 aerial photograph, which is the next available, a prefabricated rural residential building and at least one outbuilding had been constructed within the northwest portion of the property (within APN 300-210-010). Riverside County parcel data indicates that this development was constructed in 1983 (MapMyCounty 2022). Throughout the 2000s, the property underwent a few episodes of vegetation growth and clearing, and various outbuildings/trailers were added and removed from the northern parcel. The northern parcel has also been utilized for vehicle parking, whereas the southern parcel (APN 300-210-022) has largely been left undisturbed, with the exception of the clearing of vegetation and the establishment of a few dirt access roads.

Based upon Assessor's Lot Books housed at the County of Riverside Robert J. Fitch Archives, when the property was subdivided by the Perris Valley Land and Water Company Tract in 1909, it was owned by William Newport. Newport, for whom Newport Road in Menifee was named, was a prominent landowner and farmer in the Perris and Menifee valley areas. Although Newport owned the subject property between as early as 1892 and 1909, the Newport family ranch was located in Menifee (Johnson 2017), and Riverside County records show that no fees for crops or improvements (buildings) were assessed for the property in Perris while it was owned by Newport.

The County Assessor's Lot Books indicate that, after Newport's ownership, the subject property was historically owned by the same individuals who owned the adjacent properties to the west (Lot 3) and east (Lot 1). Collectively, the three lots encompassed approximately 155 acres which changed ownership multiple times.

In 1911, the subject property and two neighboring lots were assessed to Brent Anderson and then to C.W. Winther in 1912. By 1915, the lots were assessed to the Perris Valley Land and Water Company and then to the Peoples Loan and Trust Company in 1916 who appear to have held onto the property until at least 1919. Throughout all of the early transfers up until 1916, the subject property and adjacent lots were only assessed for the value of land, indicating no crops or improvements were present within them. In 1916, improvements were assessed for Lot 3, west of the subject property, while the current property (Lot 2) and Lot 1 continued to only be assessed for the land value.

The Robert J. Fitch Archives were unable to provide information for the years between 1920 and 1936. By 1936, the property was owned by Leon G. and Louise D. Long, and in 1938, the property was assessed to Louise F. Bell. Although the Assessor's Lot Books do not indicate that any improvements were assessed within the current property, the 1938 aerial photograph shows a manmade basin/reservoir to the northeast within Lot 1, along what is now Rider Street, and a ranch complex approximately one-quarter mile to the northwest within Lot 3. The Assessor's Lot Books continue to only show assessed improvements within Lot 3 and not within Lots 1 or 2. Although outside of the current property, given that Lots 1, 2, and 3 were all owned by the same individuals during this period, the off-property reservoir and ranch property are likely related to the early history of the subject property.

Bell appears to have owned the property through 1944 when Lots 1, 2, and 3 were assessed to Levi L. and Rebecca Hamner. Up until the Hamners' ownership of the subject property, the only assessed improvements remained in Lot 3; however, in 1945, improvements of \$500 dollars for buildings were assessed for Lot 1 and Lot 2. No assessment for crops was found within the Assessor's Lot Books. The Hamners are listed as the owners of the subject property through 1963 when the Assessor's Lot Book coverage ends. After 1961, assessed improvements for Lot 2 (the subject property) are no longer listed, and the property is assessed only for its land value in 1962 and 1963. The Assessor's Lot Book pages may be found within Appendix E.

Additional inquiry into historic newspapers and ancestry records did not reveal any additional information about any of the respective owners that would indicate they were significant historical figures. Further, although the Perris Valley was known for crop farming, the lack of assessment for crops in the Assessor's Lot Books indicates that the property may have been utilized mostly for ranching and livestock grazing instead. Furthermore, historic land-uses of adjacent properties included livestock grazing and sheep/cattle ranching (Garrison and Smith 2020).

Despite the 1953 aerial photograph showing rows of crops present within the property, the Assessor's Lot Books do not show any assessed value for crops. Additionally, despite the Assessor's Lot Books showing an assessed value for building improvements at Lot 2, aerial photographs between 1938 and 1978 do not show any buildings or structures located within the current property boundaries. Information from the County of Riverside indicates buildings/structures were not constructed within the property until 1983. Regardless, at the time of the survey, all buildings previously located within the property had been removed.

With respect to Lots 1 and 3 that were historically tied to the current project, historic aerial photographs show that, by 1953, the basin/reservoir within Lot 1 had been removed, the Perris Valley Storm Drain was constructed through Lot 1 in the mid-1950s, and the ranch complex within Lot 3 was demolished by 1997.

III. PROJECT DESCRIPTION

The Redlands Industrial Facility Project consists of 6.91 gross acres to be developed as an industrial warehouse project. The property is located within the city of Perris (APNs 300-210-010 and -022) northeast of the intersection of Redlands and Placentia avenues (see Figures 1 and 2). The subject property can be characterized as primarily flat land, which has been impacted by agricultural uses and minimal modern development. As proposed, the project applicant will develop the property for the construction and operation of a warehouse with office space, tractor-trailer loading docks, parking, and associated infrastructure and landscaping (Figure 3).

IV. SCOPE OF WORK

In order to assess the potential for cultural resources within the proposed project, the archaeological investigation consisted of the following tasks:

- 1) An archaeological records search was conducted by BFSa at the EIC at UCR to gather any information regarding recorded cultural resources within or adjacent to the project.
- 2) A review of the Sacred Lands File (SLF) search conducted by the Native American Heritage Commission (NAHC) for the property.
- 3) Additional archival research of the property, including historic maps, Bureau of Land Management General Land Office records, Riverside County Assessor's data, and Riverside County TLMA records.
- 4) The initial archaeological survey of the property was accomplished by conducting a systematic pedestrian survey that followed survey transects, which were spaced 10 meters apart and parallel to the existing street directions. All areas of disturbed ground and any rodent burrows were analyzed for evidence of buried archaeological deposits.
- 5) This archaeological technical report was prepared to present the results of the field survey, impact analysis, and presentation of any mitigation measures required for project approval.

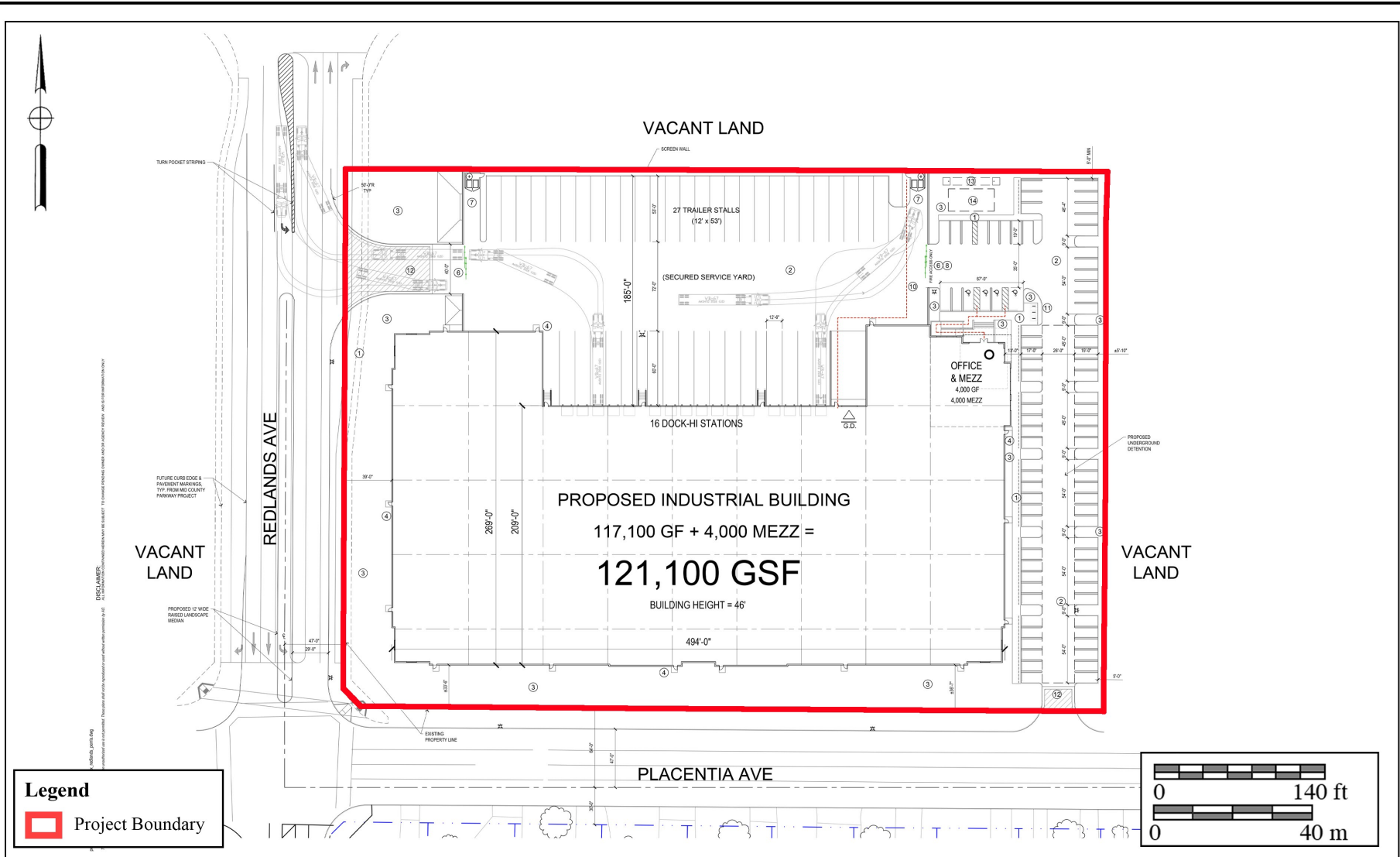


Figure 3
Site Plan

The Redlands Industrial Facility Project

Research Goals

The primary goal of the research design is to attempt to understand the way in which humans have used the land and resources within the project over time, as well as to aid in the determination of resource significance. For the current project, the study area under investigation is in the west-central portion of Riverside County. The scope of work for the archaeological program conducted for the Redlands Industrial Facility Project included a survey of the 6.91 gross-acre property. Given the area involved and the narrow focus of the cultural resources study, the research design for this project was necessarily limited and general in nature. Since the main objective of the investigation was to identify the presence of and potential impacts to cultural resources, the goal here is not necessarily to answer wide-reaching theories regarding the development of early southern California, but to investigate the role and importance of the identified resources. Although survey-level investigations are limited in terms of the amount of information available, several specific research questions were developed that could be used to guide the initial investigations of any observed cultural resources. The following research questions take into account the size and location of the project property.

Research Questions:

- Can located cultural resources be situated with a specific time period, population, or individual?
- Do the types of located cultural resources allow a site activity/function to be determined from a preliminary investigation? What are the site activities? What is the site function? What resources were exploited?
- How do the located sites compare to others reported from different surveys conducted in the area?
- How do the located sites fit existing models of settlement and subsistence for valley environments of the region?

Data Needs

At the survey level, the principal research objective is a generalized investigation of changing settlement patterns in both the prehistoric and historic periods within the study area. The overall goal is to understand human settlement and resource procurement patterns in the project area. Therefore, adequate information on site function, context, and chronology from an archaeological perspective is essential for the investigation. The fieldwork and archival research were undertaken with these primary research goals in mind:

- 1) To identify cultural resources occurring within the project property;
- 2) To determine, if possible, site type and function, context of the deposit, and chronological placement of each cultural resource identified;
- 3) To place each cultural resource identified within a regional perspective; and

- 4) To provide recommendations for the treatment of each of the cultural resources identified.

Applicable Regulations

Resource importance is assigned to districts, sites, buildings, structures, and objects that possess exceptional value or quality illustrating or interpreting the heritage of Riverside County in history, architecture, archaeology, engineering, and culture. A number of criteria are used in demonstrating resource importance. Expressly, criteria outlined in the CEQA provide the guidance for making such a determination. The following sections detail the specific CEQA criteria that a resource must meet in order to be determined important.

California Environmental Quality Act

According to CEQA (§15064.5a), the term “historical resource” includes the following:

- 1) A resource listed in, or determined to be eligible by the State Historical Resources Commission for listing in, the California Register of Historical Resources (CRHR) (Public Resources Code SS5024.1, Title 14 CCR. Section 4850 et seq.).
- 2) A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the Public Resources Code or identified as significant in an historical resource survey meeting the requirements of Section 5024.1(g) of the Public Resources Code, shall be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
- 3) 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 may be considered to be an historical resource, provided the lead agency’s determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be “historically significant” if the resource meets the criteria for listing on the CRHR (Public Resources Code SS5024.1, Title 14, Section 4852) including the following:
 - a) Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage;
 - b) Is associated with the lives of persons important in our past;
 - c) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
 - d) Has yielded, or may be likely to yield, information important in prehistory or

history.

- 4) The fact that a resource is not listed in, or determined eligible for listing in the CRHR, not included in a local register of historical resources (pursuant to Section 5020.1[k] of the Public Resources Code), or identified in an historical resources survey (meeting the criteria in Section 5024.1[g] of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code Section 5020.1(j) or 5024.1.

According to CEQA (§15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change as:

- 1) Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.
- 2) The significance of an historical resource is materially impaired when a project:
 - a) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the CRHR; or
 - b) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or,
 - c) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- 1) When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).

- 2) If a lead agency determines that the archaeological site is an historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, Section 15126.4 of the guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.
- 3) If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of Section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c-f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
- 4) If an archaeological resource is neither a unique archaeological nor historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or EIR, if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5 (d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

- (d) When an initial study identifies the existence of, or the probable likelihood, of Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the NAHC as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the NAHC. Action implementing such an agreement is exempt from:
 - 1) The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5).
 - 2) The requirement of CEQA and the Coastal Act.

Local Guidelines

The project is situated within the PVCC Specific Plan and is subject to the policies and regulations established within the plan's Mitigation Monitoring and Reporting Program (MMRP). The required mitigation measures from the PVCC Specific Plan FEIR, as modified, have been incorporated into the project and are presented in Section VI of this report below. However, the PVCC MMRP does not establish any additional local level criteria for evaluating resources beyond the standard CEQA criteria. Rather, the Specific Plan reiterates that projects within the PVCC

must adhere to the following two measures from the City of Perris General Plan – Conservation Element (2008) to assess the potential for significant resources within the subject property:

- Measure IV.A.2 For all projects subject to CEQA, applicants will be required to submit results of an archaeological records search request through the [EIC], at the [UCR].
- Measure IV.A.3 Requires Phase I survey for all projects located in areas that have not previously been surveyed for archaeological or historic resources, or which lie near areas where archaeological and/or historic sites have been recorded. (City of Perris 2008)

V. RESULTS

Background Research and Results of Records Searches

BFSA conducted a records search utilizing information obtained from the EIC at UCR (Appendix C). The records search did not identify any resources within the subject property; however, eight resources are located within one mile of the property according to the data on file at the EIC (Table 1). All of the resources identified during the records search are historic and consist of the Perris Indian School and Smith-Lowery Farm, farm equipment, the J.B. Mayer Ranch, Quonset huts, the mapped alignment of the Colorado River Aqueduct, a water conveyance system, a well, and a segment of the Perris Valley Storm Drain.

Table 1
 Previously Recorded Archaeological Sites
 Within a One-Mile Radius of the Redlands Industrial Facility Project Property

Site Number	Site Description
RIV-6726H	Historic Colorado River Aqueduct and road alignment
RIV-7744	Historic Perris Indian School (1892 to 1904); Smith-Lowery Farm dating to circa 1910
RIV-8389	Historic farm equipment
P-33-007641	Historic J.B. Mayer Ranch
P-33-007659	Historic Quonset huts (possible former Camp Haan Army Base buildings)
P-33-028896	Historic water conveyance system
P-33-029117	Historic well
RIV-13,010	Historic Perris Valley Storm Drain

The records search results also indicated that there has been a total of 34 cultural resource studies conducted within a one-mile radius of the property, one of which included the current project property (Tang et al. 2007). The Tang et al. (2007) study, conducted by CRM Tech, consisted of a large overview of resources within the North Perris Industrial Specific Plan, which would later become the current PVCC Specific Plan. The study included a focused survey, records search, literature review, and public outreach. No resources were identified within the subject property during the 2007 study, however, it is unclear if the property was systematically surveyed as part of the CRM Tech study.

BFSA also reviewed the following historic sources:

- The National Register of Historic Places Index
- The Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility
- The OHP, Built Environment Resources Directory
- The 30' USGS *Elsinore* topographic map (1901)
- The 7.5' USGS *Perris* topographic maps (1954, 1969, 1980)
- Riverside County Assessor's parcel maps
- Riverside County TLMA records
- Aerial photographs (1938 through 2019) available from the University of California at Santa Barbara library, Historicaerials.com, and Google Earth

None of these additional sources identified any potential resources within the property.

BFSA also checked Bureau of Land Management (BLM) General Land Office (GLO) records, historic maps, and aerial photographs associated with the current study area. BLM GLO records from 1883 indicate the property was originally part of the Mexican Land Grant San Jacinto Nuevo y Potrero (Doc. Num. Plc 487), which was comprised of approximately 48,817 acres. In addition, the BLM GLO records show that, in 1894, the subject property, along with much of the surrounding area, was included in a large 19,153.21-acre patent to the Southern Pacific Railroad Company (Doc. Num. 28). The railroad grant date appears to contradict the known ownership data presented above. Regardless, the property never contained tracks nor was developed by the railroad. As presented above, the property was owned by William Newport as far back as 1892 and as late as 1909 when the project was subdivided by the Perris Valley Land and Water Company. The USGS topographic quadrangle maps, including the 30' *Elsinore* (1901) and 7.5' *Perris* (1953, 1967, and 1980) maps, do not show any structures within the subject property. Riverside County records indicate the project was subdivided from the original Perris Valley Land and Water Company Tract in 1975 (PM 6455 18/97). The property was further subdivided in 1978 to reflect the current parcels (PM 11104 47/62). After the 1978 subdivision, according to Riverside County Assessor's data, in 1983 a prefabricated residence and associated outbuilding were constructed within the northwestern portion of the project.

BFSA requested a review of the SLF by the NAHC to determine if any recorded Native American sacred sites or locations of religious or ceremonial importance are present within one mile of the project. The NAHC SLF search did indicate the presence of sacred sites or locations of religious or ceremonial importance within the search radius and recommended contacting the Pechanga Band of Luiseño Mission Indians. Original correspondence is provided in Appendix D.

The potential for cultural resources to be present within a given area is usually indicated by known settlement patterns, which in western Riverside County were focused around freshwater resources and a food supply. Although modern canals are located near the project, the property does not contain any natural permanent water sources or features that would have been advantageous to the prehistoric occupation in the region. No prehistoric sites were identified within one mile of the project during the records search. Prehistoric sites within the general vicinity are primarily focused to the east, within the bedrock-laden hills surrounding Lake Perris and overlooking the San Jacinto River. As such, the records search and literature review suggest that there is a low potential for prehistoric cultural resources to be located within the project. The results of the records search indicate that historic resources associated with the built environment should be the primary site type present within the property. However, as the property did not historically contain structures, the potential for historic resources is also low.

Field Reconnaissance

Principal Investigator Brian F. Smith directed the pedestrian surveys of the property, which were conducted by Project Archaeologist Andrew J. Garrison on February 9, 2022. Aerial photographs, maps, and a compass permitted orientation and the location of project boundaries. The survey employed narrow 10-meter transects to ensure maximum lot coverage. All exposed ground was inspected for cultural materials. Ground visibility was somewhat limited due to pockets of dense non-native vegetation in addition to modern trash and building materials found throughout the property, but generally focused within the northern parcel in the location of the previous 1983 residence and outbuilding. A survey form, field notes, and photographs documented the survey work undertaken.

At the time of the survey, the subject property was characterized as flat vacant land which has been impacted by previous development, clearing, and disking (Plate 1 and 2). Within the northern half of the project (APN 300-210-010), a single small concrete pad in the location of the 1983 building was identified along with concentrations of modern trash and remnant building materials from the now removed structures (Plate 3). It appears this former residential area had been previously surficially graded to facilitate the previous development. Vegetation on the property primarily consisted of a few residential pepper trees and a pine tree found in the location of the former residence and pockets of weeds and grasses identified within the southern half and northeastern quarter of the property (Plate 4). Additional impacts to the property include repeated clearing and disking of the undeveloped portions, utility access within the public right-of-way along both Redlands and Placentia avenues, and signs of recent trash dumping.



Plate 1: Overview of the property, facing south.



Plate 2: Overview of the property, facing northwest.



Plate 3: View of the remnant concrete pad and building materials from the recently demolished 1983 prefabricated residence, facing southeast.



Plate 4: Overview of the property along Redlands Avenue, facing north.

No cultural resources, either historic or prehistoric, were discovered during the survey. The property did not historically contain any structures as the previous residential development located within APN 300-210-010 was not constructed until 1983. As such, the associated concrete pad and remnant building materials are considered modern and do not meet the age threshold to be evaluated as historical resources under CEQA. Finally, the lack of prehistoric sites is likely due to the absence of bedrock and dependable natural water sources at this location.

VI. RECOMMENDATIONS

The cultural resources study for the Redlands Industrial Facility Project did not identify any cultural resources within the property. The archaeological study was completed in accordance with the City of Perris environmental policies, including the PVCC Specific Plan FEIR, and CEQA significance evaluation criteria. Given that no archaeological sites, features, or artifacts have been recorded within the property or were identified during the survey, no potential impacts to cultural resources are associated with the proposed development of the project. Further, based upon a review of the records search and archival data, built environment resources are the most prevalent in the project vicinity, yet the current property did not historically contain structures, having been used as an open field prior to the modern 1983 development which has now been removed. Therefore, as a result of previous ground-disturbing activities associated with previous agricultural use and the partial development of the property, there is minimal potential for archaeological resources to be present or disturbed by the proposed project. Based upon the records search and the results of the field survey, no further archaeological study is recommended and no site-specific mitigation measures for cultural resources are recommended as a condition of project approval.

Although no site-specific measures are recommended and the potential for archaeological resources is low, as a result of the concerns from local Native American groups on projects in the vicinity, and in accordance with the PVCC Specific Plan FEIR, Mitigation Measure (MM) Cultural 4 should be implemented (City of Perris 2011) if cultural resources are discovered during grading. In accordance with MM Cultural 4, should cultural resources be identified at a development site that is not monitored by a professional archaeologist, the provisions of MM Cultural 2 and MM Cultural 3 of the PVCC Specific Plan FEIR shall apply. These mitigation measures provide the protocol for archaeological and Native American monitoring of grading and the treatment of discovered archaeological sites. Should human remains be discovered during grading, treatment of these remains shall follow California Public Resources Code 5097.9 as outlined within MM Cultural 6 of the PVCC Specific Plan FEIR.

The mitigation measures set forth within the PVCC Specific Plan FEIR for cultural resources have been included in Appendix B for reference. These measures would only be applicable in the event that archaeological sites, features, or artifacts are uncovered during grading.

VII. CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this archaeological report, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief, and have been compiled in accordance with CEQA criteria as defined in Section 15064.5.



December 1, 2022

Brian F. Smith
Principal Investigator

Date

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APPENDIX A

Resumes of Key Personnel

Brian F. Smith, MA

Owner, Principal Investigator

Brian F. Smith and Associates, Inc.
14010 Poway Road • Suite A •
Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: bsmith@bfsa-ca.com



Education

Master of Arts, History, University of San Diego, California 1982

Bachelor of Arts, History, and Anthropology, University of San Diego, California 1975

Professional Memberships

Society for California Archaeology

Experience

Principal Investigator
Brian F. Smith and Associates, Inc.

1977–Present
Poway, California

Brian F. Smith is the owner and principal historical and archaeological consultant for Brian F. Smith and Associates. Over the past 32 years, he has conducted over 2,500 cultural resource studies in California, Arizona, Nevada, Montana, and Texas. These studies include every possible aspect of archaeology from literature searches and large-scale surveys to intensive data recovery excavations. Reports prepared by Mr. Smith have been submitted to all facets of local, state, and federal review agencies, including the US Army Corps of Engineers, the Bureau of Land Management, the Bureau of Reclamation, the Department of Defense, and the Department of Homeland Security. In addition, Mr. Smith has conducted studies for utility companies (Sempra Energy) and state highway departments (CalTrans).

Professional Accomplishments

These selected major professional accomplishments represent research efforts that have added significantly to the body of knowledge concerning the prehistoric life ways of cultures once present in the southern California area and historic settlement since the late 18th century. Mr. Smith has been principal investigator on the following select projects, except where noted.

Downtown San Diego Mitigation and Monitoring Reporting Programs: Large numbers of downtown San Diego mitigation and monitoring projects, some of which included Broadway Block (2019), 915 Grape Street (2019), 1919 Pacific Highway (2018), Moxy Hotel (2018), Makers Quarter Block D (2017), Ballpark Village (2017), 460 16th Street (2017), Kettner and Ash (2017), Bayside Fire Station (2017), Pinnacle on the Park (2017), IDEA1 (2016), Blue Sky San Diego (2016), Pacific Gate (2016), Pendry Hotel (2015), Cisterra Sempra Office Tower (2014), 15th and Island (2014), Park and G (2014), Comm 22 (2014), 7th and F Street Parking (2013), Ariel Suites (2013), 13th and Marker (2012), Strata (2008), Hotel Indigo (2008), Lofts at 707 10th Avenue Project (2007), Breeza (2007), Bayside at the Embarcadero (2007), Aria (2007), Icon (2007), Vantage Pointe (2007), Aperture (2007), Sapphire Tower (2007), Lofts at 655 Sixth Avenue (2007), Metrowork (2007), The Legend (2006), The Mark (2006), Smart Corner (2006), Lofts at 677 7th Avenue (2005), Aloft on Cortez Hill (2005), Front and Beech Apartments (2003), Bella Via Condominiums (2003), Acqua Vista Residential Tower (2003), Northblock Lofts (2003), Westin Park Place Hotel (2001), Parkloff

Apartment Complex (2001), Renaissance Park (2001), and Laurel Bay Apartments (2001).

1900 and 1912 Spindrift Drive: An extensive data recovery and mitigation monitoring program at the Spindrift Site, an important prehistoric archaeological habitation site stretching across the La Jolla area. The project resulted in the discovery of over 20,000 artifacts and nearly 100,000 grams of bulk faunal remains and marine shell, indicating a substantial occupation area (2013-2014).

San Diego Airport Development Project: An extensive historic assessment of multiple buildings at the San Diego International Airport and included the preparation of Historic American Buildings Survey documentation to preserve significant elements of the airport prior to demolition (2017-2018).

Citracado Parkway Extension: A still-ongoing project in the city of Escondido to mitigate impacts to an important archaeological occupation site. Various archaeological studies have been conducted by BFSA resulting in the identification of a significant cultural deposit within the project area.

Westin Hotel and Timeshare (Grand Pacific Resorts): Data recovery and mitigation monitoring program in the city of Carlsbad consisted of the excavation of 176 one-square-meter archaeological data recovery units which produced thousands of prehistoric artifacts and ecofacts, and resulted in the preservation of a significant prehistoric habitation site. The artifacts recovered from the site presented important new data about the prehistory of the region and Native American occupation in the area (2017).

The Everly Subdivision Project: Data recovery and mitigation monitoring program in the city of El Cajon resulted in the identification of a significant prehistoric occupation site from both the Late Prehistoric and Archaic Periods, as well as producing historic artifacts that correspond to the use of the property since 1886. The project produced an unprecedented quantity of artifacts in comparison to the area encompassed by the site, but lacked characteristics that typically reflect intense occupation, indicating that the site was used intensively for food processing (2014-2015).

Ballpark Village: A mitigation and monitoring program within three city blocks in the East Village area of San Diego resulting in the discovery of a significant historic deposit. Nearly 5,000 historic artifacts and over 500,000 grams of bulk historic building fragments, food waste, and other materials representing an occupation period between 1880 and 1917 were recovered (2015-2017).

Archaeology at the Padres Ballpark: Involved the analysis of historic resources within a seven-block area of the "East Village" area of San Diego, where occupation spanned a period from the 1870s to the 1940s. Over a period of two years, BFSA recovered over 200,000 artifacts and hundreds of pounds of metal, construction debris, unidentified broken glass, and wood. Collectively, the Ballpark Project and the other downtown mitigation and monitoring projects represent the largest historical archaeological program anywhere in the country in the past decade (2000-2007).

4S Ranch Archaeological and Historical Cultural Resources Study: Data recovery program consisted of the excavation of over 2,000 square meters of archaeological deposits that produced over one million artifacts, containing primarily prehistoric materials. The archaeological program at 4S Ranch is the largest archaeological study ever undertaken in the San Diego County area and has produced data that has exceeded expectations regarding the resolution of long-standing research questions and regional prehistoric settlement patterns.

Charles H. Brown Site: Attracted international attention to the discovery of evidence of the antiquity of man in North America. Site located in Mission Valley, in the city of San Diego.

Del Mar Man Site: Study of the now famous Early Man Site in Del Mar, California, for the San Diego Science Foundation and the San Diego Museum of Man, under the direction of Dr. Spencer Rogers and Dr. James R. Moriarty.

Old Town State Park Projects: Consulting Historical Archaeologist. Projects completed in the Old Town State Park involved development of individual lots for commercial enterprises. The projects completed in Old Town include Archaeological and Historical Site Assessment for the Great Wall Cafe (1992), Archaeological Study for the Old Town Commercial Project (1991), and Cultural Resources Site Survey at the Old San Diego Inn (1988).

Site W-20, Del Mar, California: A two-year-long investigation of a major prehistoric site in the Del Mar area of the city of San Diego. This research effort documented the earliest practice of religious/ceremonial activities in San Diego County (circa 6,000 years ago), facilitated the projection of major non-material aspects of the La Jolla Complex, and revealed the pattern of civilization at this site over a continuous period of 5,000 years. The report for the investigation included over 600 pages, with nearly 500,000 words of text, illustrations, maps, and photographs documenting this major study.

City of San Diego Reclaimed Water Distribution System: A cultural resource study of nearly 400 miles of pipeline in the city and county of San Diego.

Master Environmental Assessment Project, City of Poway: Conducted for the City of Poway to produce a complete inventory of all recorded historic and prehistoric properties within the city. The information was used in conjunction with the City's General Plan Update to produce a map matrix of the city showing areas of high, moderate, and low potential for the presence of cultural resources. The effort also included the development of the City's Cultural Resource Guidelines, which were adopted as City policy.

Draft of the City of Carlsbad Historical and Archaeological Guidelines: Contracted by the City of Carlsbad to produce the draft of the City's historical and archaeological guidelines for use by the Planning Department of the City.

The Mid-Bayfront Project for the City of Chula Vista: Involved a large expanse of undeveloped agricultural land situated between the railroad and San Diego Bay in the northwestern portion of the city. The study included the analysis of some potentially historic features and numerous prehistoric

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Audie Murphy Ranch, Riverside County, California: Project manager/director of the investigation of 1,113.4 acres and 43 sites, both prehistoric and historic—including project coordination; direction of field crews; evaluation of sites for significance based on County of Riverside and CEQA guidelines; assessment of cupule, pictograph, and rock shelter sites, co-authoring of cultural resources project report. February- September 2002.

Cultural Resources Evaluation of Sites Within the Proposed Development of the Otay Ranch Village 13 Project, San Diego County, California: Project manager/director of the investigation of 1,947 acres and 76 sites, both prehistoric and historic—including project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of San Diego and CEQA guidelines; co-authoring of cultural resources project report. May-November 2002.

Cultural Resources Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County: Project manager/director for a survey of 29 individual sites near the U.S./Mexico Border for proposed video surveillance camera locations associated with the San Diego Border barrier Project—project coordination and budgeting; direction of field crews; site identification and recordation; assessment of potential impacts to cultural resources; meeting and coordinating with U.S. Army Corps of Engineers, U.S. Border Patrol, and other government agencies involved; co-authoring of cultural resources project report. January, February, and July 2002.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee West GPA, Riverside County, California: Project manager/director of the investigation of nine sites, both prehistoric and historic—including project coordination and budgeting; direction of field crews; assessment of sites

for significance based on County of Riverside and CEQA guidelines; historic research; co-authoring of cultural resources project report. January-March 2002.

Cultural Resources Survey and Test of Sites Within the Proposed French Valley Specific Plan/EIR, Riverside County, California: Project manager/director of the investigation of two prehistoric and three historic sites—included project coordination and budgeting; survey of project area; Native American consultation; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee Ranch, Riverside County, California: Project manager/director of the investigation of one prehistoric and five historic sites—included project coordination and budgeting; direction of field crews; feature recordation; historic structure assessments; assessment of sites for significance based on CEQA guidelines; historic research; co-authoring of cultural resources project report. February-June 2000.

Salvage Mitigation of a Portion of the San Diego Presidio Identified During Water Pipe Construction for the City of San Diego, California: Project archaeologist/director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project, Pacific Beach, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. March-April 2000.

Salvage Mitigation of a Portion of Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project and Caltrans, Carlsbad, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. December 1999-January 2000.

Survey and Testing of Two Prehistoric Cultural Resources for the Airway Truck Parking Project, Otay Mesa, California: Project archaeologist/director—included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; authoring of cultural resources project report, in prep. December 1999-January 2000.

Cultural Resources Phase I and II Investigations for the Tin Can Hill Segment of the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for a survey and testing of a prehistoric quarry site along the border—NRHP eligibility assessment; project coordination and budgeting; direction of field crews; feature recordation; meeting and coordinating with U.S. Army Corps of Engineers; co-authoring of cultural resources project report. December 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Westview High School Project for the City of San Diego, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. October 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Otoy Ranch SPA-One West Project for the City of Chula Vista, California: Project archaeologist/director—included direction of field crews; development of data recovery program; management of artifact collections cataloging and curation; assessment of site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report, in prep. September 1999-January 2000.

Monitoring of Grading for the Herschel Place Project, La Jolla, California: Project archaeologist/ monitor— included monitoring of grading activities associated with the development of a single- dwelling parcel. September 1999.

Survey and Testing of a Historic Resource for the Osterkamp Development Project, Valley Center, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; budget development; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Testing of a Prehistoric Cultural Resource for the Proposed College Boulevard Alignment Project, Carlsbad, California: Project manager/director —included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report, in prep. July-August 1999.

Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California: Project archaeologist—included direction of field crews; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Evaluation of Cultural Resources at the Village 2 High School Site, Otoy Ranch, City of Chula Vista, California: Project manager/director —management of artifact collections cataloging and curation; assessment of site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report. July 1999.

Cultural Resources Phase I, II, and III Investigations for the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for the survey, testing, and mitigation of sites along border—supervision of multiple field crews, NRHP eligibility assessments, Native American consultation, contribution to Environmental Assessment document, lithic and marine shell analysis, authoring of cultural resources project report. August 1997- January 2000.

Phase I, II, and III Investigations for the Scripps Poway Parkway East Project, Poway California: Project archaeologist/project director—included recordation and assessment of multicomponent prehistoric and historic sites; direction of Phase II and III investigations; direction of laboratory analyses including prehistoric and historic collections; curation of collections; data synthesis; coauthorship of final cultural resources report. February 1994; March-September 1994; September-December 1995.

Andrew J. Garrison, MA, RPA

Project Archaeologist

Brian F. Smith and Associates, Inc.
14010 Poway Road • Suite A •
Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: agarrison@bfsa-ca.com



Education

Master of Arts, Public History, University of California, Riverside	2009
Bachelor of Science, Anthropology, University of California, Riverside	2005
Bachelor of Arts, History, University of California, Riverside	2005

Professional Memberships

Register of Professional Archaeologists	Society of Primitive Technology
Society for California Archaeology	Lithic Studies Society
Society for American Archaeology	California Preservation Foundation
California Council for the Promotion of History	Pacific Coast Archaeological Society

Experience

Project Archaeologist **June 2017–Present**
Brian F. Smith and Associates, Inc. **Poway, California**

Project management of all phases of archaeological investigations for local, state, and federal agencies including National Register of Historic Places (NRHP) and California Environmental Quality Act (CEQA) level projects interacting with clients, sub-consultants, and lead agencies. Supervise and perform fieldwork including archaeological survey, monitoring, site testing, comprehensive site records checks, and historic building assessments. Perform and oversee technological analysis of prehistoric lithic assemblages. Author or co-author cultural resource management reports submitted to private clients and lead agencies.

Senior Archaeologist and GIS Specialist **2009–2017**
Scientific Resource Surveys, Inc. **Orange, California**

Served as Project Archaeologist or Principal Investigator on multiple projects, including archaeological monitoring, cultural resource surveys, test excavations, and historic building assessments. Directed projects from start to finish, including budget and personnel hours proposals, field and laboratory direction, report writing, technical editing, Native American consultation, and final report submittal. Oversaw all GIS projects including data collection, spatial analysis, and map creation.

Preservation Researcher **2009**
City of Riverside Modernism Survey **Riverside, California**

Completed DPR Primary, District, and Building, Structure and Object Forms for five sites for a grant-funded project to survey designated modern architectural resources within the City of Riverside.

Information Officer
Eastern Information Center (EIC), University of California, Riverside

2005, 2008–2009
Riverside, California

Processed and catalogued restricted and unrestricted archaeological and historical site record forms. Conducted research projects and records searches for government agencies and private cultural resource firms.

Reports/Papers

- 2019 A Class III Archaeological Study for the Tuscany Valley (TM 33725) Project National Historic Preservation Act Section 106 Compliance, Lake Elsinore, Riverside County, California. Contributing author. Brian F. Smith and Associates, Inc.
- 2019 A Phase I and II Cultural Resources Assessment for the Jack Rabbit Trail Logistics Center Project, City of Beaumont, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2019 A Phase I Cultural Resources Assessment for the 10575 Foothill Boulevard Project, Rancho Cucamonga, California. Brian F. Smith and Associates, Inc.
- 2019 Cultural Resources Study for the County Road and East End Avenue Project, City of Chino, San Bernardino County, California. Brian F. Smith and Associates, Inc.
- 2019 Phase II Cultural Resource Study for the McElwain Project, City of Murrieta, California. Contributing author. Brian F. Smith and Associates, Inc.
- 2019 A Section 106 (NHPA) Historic Resources Study for the McElwain Project, City of Murrieta, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2018 Cultural Resource Monitoring Report for the Sewer Group 818 Project, City of San Diego. Brian F. Smith and Associates, Inc.
- 2018 Phase I Cultural Resource Survey for the Stone Residence Project, 1525 Buckingham Drive, La Jolla, California 92037. Brian F. Smith and Associates, Inc.
- 2018 A Phase I Cultural Resources Assessment for the Seaton Commerce Center Project, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resources Assessment for the Marbella Villa Project, City of Desert Hot Springs, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2017 Phase I Cultural Resources Survey for TTM 37109, City of Jurupa Valley, County of Riverside. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resources Assessment for the Winchester Dollar General Store Project, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2016 John Wayne Airport Jet Fuel Pipeline and Tank Farm Archaeological Monitoring Plan. Scientific Resource Surveys, Inc. On file at the County of Orange, California.
- 2016 Historic Resource Assessment for 220 South Batavia Street, Orange, CA 92868 Assessor's Parcel Number 041-064-4. Scientific Resource Surveys, Inc. Submitted to the City of Orange as part of

- Mills Act application.
- 2015 Historic Resource Report: 807-813 Harvard Boulevard, Los Angeles. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.
- 2015 Exploring a Traditional Rock Cairn: Test Excavation at CA-SDI-13/RBLI-26: The Rincon Indian Reservation, San Diego County, California. Scientific Resource Surveys, Inc.
- 2014 Archaeological Monitoring Results: The New Los Angeles Federal Courthouse. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.
- 2012 Bolsa Chica Archaeological Project Volume 7, Technological Analysis of Stone Tools, Lithic Technology at Bolsa Chica: Reduction Maintenance and Experimentation. Scientific Resource Surveys, Inc.

Presentations

- 2017 "Repair and Replace: Lithic Production Behavior as Indicated by the Debitage Assemblage from CA-MRP-283 the Hackney Site." Presented at the Society for California Archaeology Annual Meeting, Fish Camp, California.
- 2016 "Bones, Stones, and Shell at Bolsa Chica: A Ceremonial Relationship?" Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2016 "Markers of Time: Exploring Transitions in the Bolsa Chica Assemblage." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2016 "Dating Duress: Understanding Prehistoric Climate Change at Bolsa Chica." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2014 "New Discoveries from an Old Collection: Comparing Recently Identified OGR Beads to Those Previously Analyzed from the Encino Village Site." Presented at the Society for California Archaeology Annual Meeting, Visalia, California.
- 2012 Bolsa Chica Archaeology: Part Seven: Culture and Chronology. Lithic demonstration of experimental manufacturing techniques at the April meeting of The Pacific Coast Archaeological Society, Irvine, California.

APPENDIX B

**PVCC Specific Plan FEIR
Applicable Mitigation Measures**

Biological Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/ Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	at least 90 percent avoidance of areas providing long-term conservation value for the NEPSSA and CAPSSA target species. If avoidance is not feasible, then such implementing projects will require the approval of a DBESP including appropriate mitigation.	conjunction with development applications as part of the CEQA process Approval of a DBESP will be required as part of the CEQA process	Planning Division				

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/ Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
The project would cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5 of the <i>CEQA Guidelines</i> .	MM Cultural 1: Prior to the consideration by the City of Perris of implementing development or infrastructure projects for properties that are vacant, undeveloped, or considered to be sensitive for cultural resources by the City of Perris Planning Division, a Phase I Cultural Resources Study of the subject property prepared in accordance	In conjunction with development applications, and prior to issuance of grading permits	Submittal of a Phase I Cultural Resources Study and issuance of grading permits	City of Perris Planning Division			

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>with the protocol of the City of Perris by a professional archeologist¹ shall be submitted to the City of Perris Planning Division for review and approval. The Phase I Cultural Resources Study shall determine whether the subject implementing development would potentially cause a substantial adverse change to any significant paleontological, archaeological, or historic resources. The Phase I Cultural Resources Study shall be prepared to meet the standards established by Riverside County and shall, at a minimum, include the results of the following:</p> <ol style="list-style-type: none"> 1. Records searches at the Eastern Information Center (EIC), the National or State Registry of Historic Places and any appropriate public, private, and tribal archives. 2. Sacred Lands File record search with the NAHC followed by project scoping with tribes recommended by the NAHC. 3. Field survey of the implementing 						

¹ For the purpose of this measure, the City of Perris considers professional archaeologists to be those who meet the United States Secretary of the Interior’s standards for recognition as a professional, including an advanced degree in anthropology, archaeology, or a related field, and the local experience necessary to evaluate the specific project. The professional archaeologist must also meet the minimum criteria for recognition by the Register for Professional Archaeologists (RPA), although membership is not required.

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>development or infrastructure project site.</p> <p>The proponents of the subject implementing development projects and the professional archaeologists are also encouraged to contact the local Native American tribes (as identified by the California Native Heritage Commission and the City of Perris) to obtain input regarding the potential for native American resources to occur at the project site.</p> <p>Measures shall be identified to mitigate the known and potential significant effects of the implementing development or infrastructure project, if any. Mitigation for historic resources shall be considered in the following order of preference:</p> <ol style="list-style-type: none"> 1. Avoidance. 2. Changes to the structure provided pursuant to the Secretary of Interior's Standards. 3. Relocation of the structure. 4. Recordation of the structure to Historic American Buildings Survey (HABS)/Historic American Engineering Record (HAER) standard if demolition is allowed. 						

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>Avoidance is the preferred treatment for known significant prehistoric and historical archaeological sites, and sites containing Native American human remains. Where feasible, plans for implementing projects shall be developed to avoid known significant archaeological resources and sites containing human remains. Where avoidance of construction impacts is possible, the implementing projects shall be designed and landscaped in a manner, which will ensure that indirect impacts from increased public availability to these sites are avoided. Where avoidance is selected, archaeological resource sites and sites containing Native American human remains shall be placed within permanent conservation easements or dedicated open space areas.</p> <p>The Phase I Cultural Resources Study submitted for each implementing development or infrastructure project shall have been completed no more than three (3) years prior to the submittal of the application for the subject implementing development project or the start of construction of an implementing infrastructure project.</p>						

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>MM Cultural 2: If the Phase I Cultural Resources Study required under MM Cultural 1 determines that monitoring during construction by a professional archaeologist is needed for the implementing development project; the project proponent shall retain a professional archaeologist prior to the issuance of grading permits. The task of the archaeologist shall be to verify implementation of the mitigation measures identified in the approved Phase I Cultural Resources Study and to monitor the initial ground-altering activities² at the subject site for the unearthing of previously unknown archaeological and/or cultural resources. Selection of the archaeologist shall be subject to the approval of the City of Perris Planning Manager and no grading activities shall occur at the site until the archaeologist has been approved by the City.</p> <p>The archaeological monitor shall be responsible for maintaining daily field notes, a photographic record, and reporting all finds in a timely manner. The archaeologist shall also be</p>	In conjunction with development applications, and prior to issuance of grading permits	Retention of professional archaeologist/ongoing monitoring/submittal of Report of Findings, if applicable	City of Perris Planning Division			
	<p>equipped to record and salvage cultural resources that may be unearthed during initial ground-altering activities. The archaeologist</p>						11.0-24

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>MM Cultural 3 If the Phase I Cultural Resources Study required under MM Cultural 1 determines that monitoring during construction by both a professional archaeologist and a Native American representative is needed for the implementing development project, the project proponent shall retain a professional archaeologist and a Native American representative of Luiseño descent prior to the issuance of grading permits. The professional archaeologist and Native American observer shall be required on site during all initial ground-altering activities. The Native American observer shall have the authority to temporarily divert, redirect, or halt the ground disturbance activities to allow the evaluation of cultural resources with the project archaeologist. The evaluation and treatment provisions of mitigation measure MM Cultural 2 shall apply to this measure.</p>	<p>Monitors retained prior to issuance of grading permits.</p> <p>Monitoring shall take place during all initial ground-altering activities</p>	<p>Retention of professional archaeologist/ongoing monitoring/submittal of Report of Findings, if applicable</p>	<p>City of Perris Planning Division</p>			
	<p>MM Cultural 4 In the event that cultural resources are discovered at a development site that is not monitored by a professional</p>	<p>Ongoing during construction</p>	<p>Retention of professional archaeologist/ongoing monitoring/submittal of</p>	<p>City of Perris Planning</p>			

² For the purpose of this measure, ground-altering activities include, but are not limited to, debris removal, vegetation removal, tree removal, grading, trenching, or other site preparation activities. Initial ground-altering activities refer to the first time that the existing materials are altered by construction-related activities. Materials that have already been disturbed by construction-related activities do not require subsequent monitoring.

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	archaeologist, all activities in the immediate vicinity of the find shall stop, the project developer shall notify the City of Perris Planning Division, and the project developer shall retain a professional archaeologist to analyze the find for identification as prehistoric and historical archaeological resources. The evaluation and treatment provisions of mitigation measure MM Cultural 2 shall apply to this measure.		Report of Findings, if applicable	Division			
The project would directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.	<p>MM Cultural 5: Prior to grading for projects requiring subsurface excavation that exceeds five (5) feet in depth, proponents of the subject implementing development projects shall retain a professional paleontologist to verify implementation of the mitigation measures identified in the approved Phase I Cultural Resources Study and to monitor the subsurface excavation that exceed five (5) feet in depth. Selection of the paleontologist shall be subject to the approval of the City of Perris Planning Manager and no grading activities shall occur at the site until the paleontologist has been approved by the City.</p> <p>Monitoring should be restricted to undisturbed subsurface areas of older alluvium, which might be present below the surface. The</p>	<p>Prior to issuance of grading permits</p> <p>Ongoing monitoring during subsurface excavation</p>	Retention of professional paleontologist/ongoing monitoring/submittal of Report of Findings, if applicable	City of Perris Planning Division			

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>paleontologist shall be prepared to quickly salvage fossils as they are unearthed to avoid construction delays. The paleontologist shall also remove samples of sediments which are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontologist shall have the power to temporarily halt or divert grading equipment to allow for removal of abundant or large specimens.</p> <p>Collected samples of sediments shall be washed to recover small invertebrate and vertebrate fossils. Recovered specimens shall be prepared so that they can be identified and permanently preserved. Specimens shall be identified and curated and placed into an accredited repository (such as the Western Science Center or the Riverside Metropolitan Museum) with permanent curation and retrievable storage.</p> <p>A report of findings, including an itemized inventory of recovered specimens, shall be prepared upon completion of the steps outlined above. The report shall include a discussion of the significance of all recovered specimens. The report and inventory, when submitted to the City of Perris Planning Division, will signify completion of the program to mitigate impacts</p>						

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	to paleontological resources.						
The project would cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5 of the <i>CEQA Guidelines</i> .	<p>MM Cultural 6: In the event that human remains (or remains that may be human) are discovered at the implementing development project site during grading or earthmoving, the construction contractors shall immediately stop all activities in the immediate area of the find. The project proponent shall then inform the Riverside County Coroner and the City of Perris Planning Division and the coroner will be permitted to examine the remains.</p> <p>If the coroner determines that the remains are of Native American origin, the coroner will notify the NAHC and the Commission will identify the “Most Likely Descendent” (MLD).³ Despite the affiliation of any Native American representatives at the site, the Commission’s identification of the MLD will stand. The MLD shall be granted access to inspect the site of the discovery of the Native</p>	During construction activities	Coroner and NAHC contacted and submittal of Report of Findings, if applicable	City of Perris Planning Division			

³ The “Most Likely Descendent” (“MLD”) is a reference used by the California Native American Heritage Commission to identify the individual or population most likely associated with any human remains that may be identified within a given project area. Under California Public Resources Code section 5097.98, the Native American Heritage Commission has the authority to name the MLD for any specific project and this identification is based on a report of Native American remains through the County Coroner’s office. In the case of the City of Perris, the Native American Heritage Commission may identify any Luiseño descendent, but generally names the Soboba or Pechanga bands of Mission Indians (both Luiseño populations) and alternates between the two groups. The City of Perris will recognize any MLD identified by the Native American Heritage Commission without giving preference to any particular population. In cases where the Native American Heritage Commission is not tasked with the identification of a Native American representative, the City of Perris reserves the right to make an independent decision based upon the nature of the proposed project.

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	<p>American human remains and may recommend to the project proponent means for treatment or disposition, with appropriate dignity of the human remains and any associated grave goods. The MLD shall complete their inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site. The disposition of the remains will be determined in consultation with the City of Perris, the project proponent, and the MLD. The City of Perris will be responsible for the final decision, based upon input from the various stakeholders.</p> <p>If the human remains are determined to be other than Native American in origin, but still of archaeological value, the remains will be recovered for analysis and subject to curation or reburial at the expense of the project proponent. If deemed appropriate, the remains will be recovered by the coroner and handled through the Coroner's Office.</p> <p>Coordination with the Coroner's Office will be through the City of Perris and in consultation with the various stakeholders.</p> <p>The specific locations of Native American burials and reburials will be proprietary and not</p>						

Cultural Resources							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
	disclosed to the general public. The locations will be documented by the consulting archaeologist in conjunction with the various stakeholders and a report of findings shall be filed with the Eastern Information Center (EIC).						

Geology and Soils							
Impact/Threshold	Mitigation Measure	Monitoring Timing/Frequency	Action Indicating Compliance	Monitoring Agency	Verification of Compliance		
					Initials	Date	Remarks
Expose people or property to substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the proposed project, and potentially result in on- or off-site landslide, lateral spreading, subsidence,	MM Geo 1: Concurrent with the City of Perris' review of implementing development projects, the project proponent of the implementing development project shall submit a geotechnical report prepared by a registered geotechnical engineer and a qualified engineering geologist to the City of Perris Public Works/Engineering Administration Division for its review and approval. The geotechnical report shall assess the soil stability within the implementing development project affecting individual lots and building pads, and shall describe the methodology (e.g., overexcavated, backfilled, compaction) being used to implement the	In conjunction with development applications, and prior to issuance of grading permits	Submittal of geotechnical report	City of Perris Public Works/Engineering Division			

APPENDIX C

Archaeological Records Search Results

(Deleted for Public Review; Bound Separately)

APPENDIX D

NAHC Sacred Lands File Search

(Deleted for Public Review; Bound Separately)

APPENDIX E

Assessor's Lot Book Pages

RIVERSIDE COUNTY Real Property Ownership Records

LINE NO.	1948/1948 ASSESSED TO	1954/1947 ASSESSED TO	1957/1950 ASSESSED TO	1958/1951 ASSESSED TO	1963/1952 ASSESSED TO	1964/1953 ASSESSED TO	LINE NO.	DESCRIPTION	SECTION OR LOT	TWP. OR BLOCK	RANGE	SCHOOL DIST. CODE AREA	DATE SOLD FOR TAXES	LAND	IMP.	T & V	LAND	1948/1948 ASSESSED TO	
2	Hammer Leril (Rebecca)						2	PERRIS VAL LAND AND WATER CO SEC 17 4S 3W MB 7/38 79.80 AC	1			VAL VERDE		2700	600	4800	600	4800	600
3	do						3	79.60 AC	2					7100	600	4800	600	4800	600
4	do						4	55.60 AC	3					5360	2220	3360	2220	4440	2220
5	Westhald Emma						5	1 AC IN NE COR OF SW 1/4	4				1930	-	-	-	-	-	-
4																			
13	Bonge FC (Laura)						13	PERRIS VAL LAND AND WATER CO SEC 20 4S 3W MB 7/38 26.40 AC	1					1320	530	790	790	790	790
4																			
19	Smith Roy C & Geo A						19	PERRIS VAL LAND AND WATER CO SEC 21 4S 3W MB 7/38 80.48 AC	1					5030	4030	4630	4630	4630	4630
20	do						20	79.52 AC	2					7000	2680	4790	2680	4790	2680
21	do						21	80.48 AC	3					5050	1530	1530	1530	1530	1530
22	do						22	76.60 AC	4					7660	1770	2890	2540	2430	2540
25	do						25	S AND E OF FIGADOTA FARMS NO 3 INT IN PAR BEG 485 FT W OF NE COR S 50 FT X W 175 FT, 54.06 AC	3		EXC 75/210			5460	1830	1770	2890	2540	2430
27	do						27	80 AC	5					3600	5800	4800	4800	4800	4800
28	do						28	W 5 AC	6					200	300	300	300	300	300
29	Clark Roy E (Aunt M)						29	E 75 AC	7					3000	1120	5290	1120	5250	1120
30	do						30	75/210 INT IN FOL DES PAR BEG 485 FT W OF NE COR LOT 5 S 50 FT X W 175 FT	8					50	50	170	20	20	20
4																			
37	Bonge FC (Laura)						37	PERRIS VALLEY LAND AND WATER CO TR MB 7/38 * LOTS 1 TO 4 SEC 23 OUT OF DRAINAGE DIST EXC ORANGE VISTA ACRES AND EXC RR R/W, 270 AC						6920	5320	5320	5320	5320	5320
40	do						40	LOT 2 SEC 26, LOT 1 AND N 1/2 LOT 2 SEC 27 ALL OUT OF DRAINAGE DIST EXC RR R/W, LOT 3 SEC 27 N OF RR R/W, 124 AC						2400	160	1300	160	1300	160
44	do						44	LOT 3 SEC 26 AND LOTS 7 AND 8 SEC 27 ALL OUT OF DRAINAGE DIST, 140 AC						2800	1400	1400	1400	1400	1400
47	do						47	PORTIONS OF LOT 4 SEC 23 EXC E SHT FOR RIVER CHANNEL LOTS 1, 2, 3 SEC 26, LOTS 1, 5 6.7, 8 SEC 27 ALL IN DRAINAGE DIST EXC DRAINAGE CANAL AND EXC FOR LOT 6 SEC 27 LYING S OF CANAL, 340.76 AC						7920	3400	3230	3230	3230	3230
53	do						53	A T AND S F RY R/W THRU SEC 23 AND N 1/2 SEC 23 4S 3W BEING SBE NO 80473725 PARCEL 8, 8.5 AC						170	170	170	170	170	170
54	Lauda Frank (Wahs)						54	A T AND S F RY R/W THRU NE 1/4 SEC BEING SBE NO 804733/26 PARCEL 1, 6.80 AC						140	140	140	140	140	140
55	Bonge FC (Laura)						55	A T AND S F RY R/W THRU SE 1/4 SEC 23 BEING SBE NO 804733/26 PARCEL 1, 1.40 AC						30	30	30	30	30	30
56	Bonge FC (Laura)						56	Portion of Drainage Dist in Drainage Canal	23	4S	3W								
57	do						57	Portion of Drainage Dist in Drainage Canal	23	4S	3W							180	180
58	Lauda Frank						58	PARTITION OF RO SAN JACINTO NUEVO POR LOT 5 IN DRAINAGE DIST IN PERRIS VALLEY CONS DIST, EXC RR R/W, 140 AC						2800	1400	1400	1400	1400	1400
61	do						61	PERRIS VALLEY LAND AND WATER CO TR I OUT OF SEC 23 4S 3W PARCEL 8, 3200						3200	1400	1400	1400	1400	1400

Not Page

1040/1948 ASSESSED TO
FC (Laura)
Frank

