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Title: **A Historical Survey Report for Bonita Pump Station Project, San Diego, California**

Contract/Task Order Number: As-Needed Environmental Services Contract H125692/Task Order #19

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Date: November 20, 2015

USGS: National City, CA 7.5-minute Quadrangle T17S, R2W, Unsectioned

Keywords: USGS National City 7.5-minute Quadrangle, Township 17S, R 2 West; Cultural Resources; Bonita; San Diego, California

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I. PROJECT DESCRIPTION AND LOCATION

The following report details the survey results for the cultural resources survey conducted for the Bonita Pump Station Project (proposed project) in the city of San Diego, California, and follows the report format specified in the City of San Diego Historical Resources Guidelines.

Project Description

The proposed project is a Direct Transfer Facility (DTF) as part of the Reynolds Groundwater Desalination Expansion (RGDE) project and will increase local water production and increase water supply reliability. Components of this project include an electrical meter room, an electrical room, and a pump room. Grading, trenching and vegetation removal, as needed, will be part of the activities during the project. Construction of two paved access driveways, with one manual swing gate and one security fence with a slide gate is also proposed. The DTF overall footprint is estimated at 1,075 square feet (43 feet by 25 feet).

Project Location

The proposed project is located at Bonita Road at Willow Street in the San Diego community of Bonita. The APE (Area of Potential Effects) follows on the south side of Bonita Road from Willow Street to the Glen Abbey Mortuary parking lot. It is located on three properties (APNs 5912411400, 5912410200, and 5912411200).

The project APE can be found in Township 17 South, Range 2 West, Unsectioned of the 1996 National City USGS 7.5-minute topographical quadrangle (United States Geological Survey 1996).

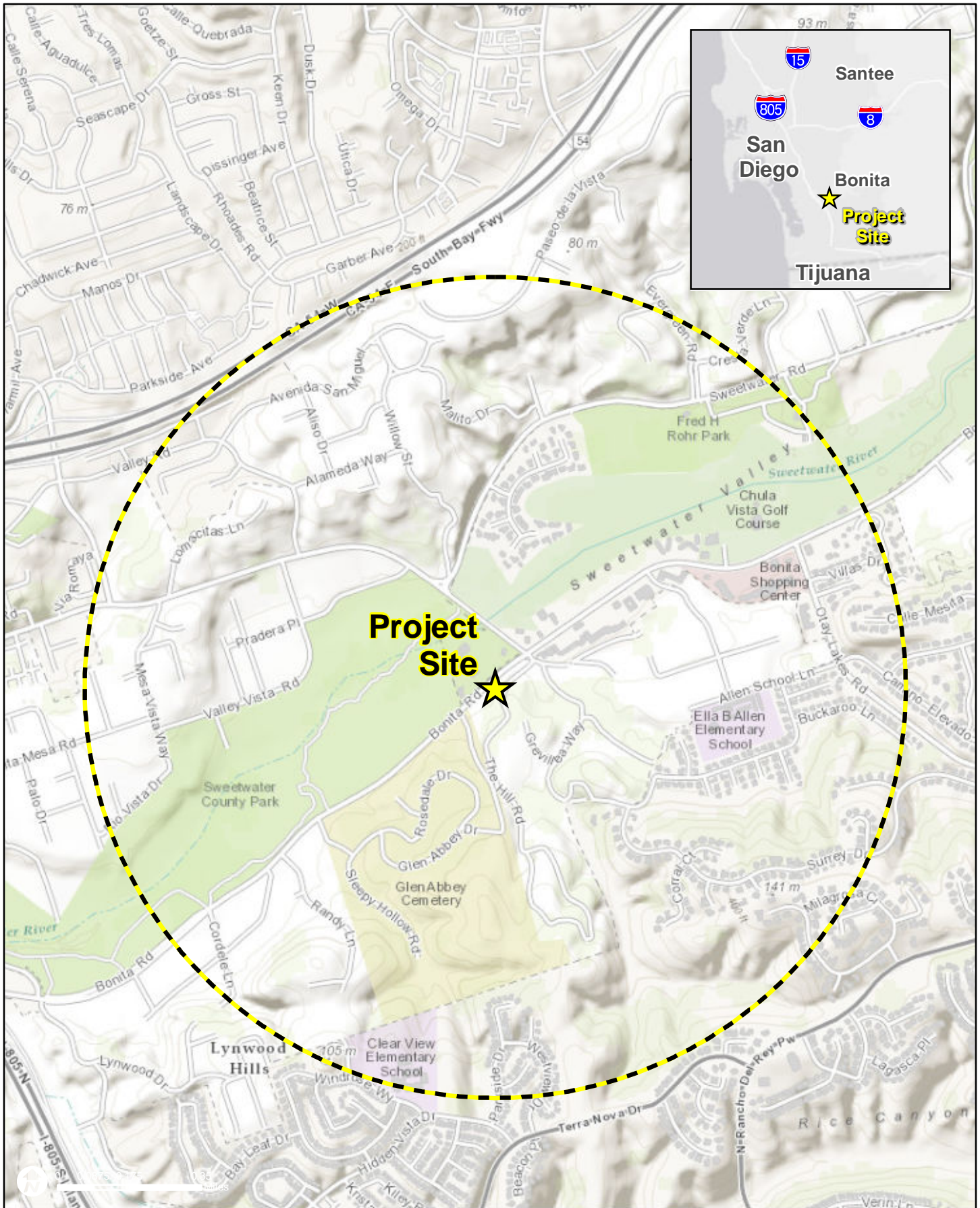
II. SETTING

Natural Setting

Geologically, the project APE is found within Quaternary undivided old alluvial floodplain deposits (late to middle Pleistocene) (Qoa) (Kennedy and Tan 2008). The climate is classified as semiarid steppe (Pryde 2014).

The average annual minimum temperature for the city of San Diego is 57.5°F while annual maximum temperature averages 69.8°F with rainfall averaging almost 10.4 inches per year (usclimatedata.com 2015).

The project area is located in the Sweetwater River Valley. Sweetwater River runs fifty-five miles from the Cuyamaca Mountains in the east to San Diego Bay in the west. The predominant natural vegetation community of the area includes “riparian forest, chaparral, coastal sage scrub, and coastal salt marsh” (Jenniches 2011). Typical plant species for this community include laurel sumac (*Rhus laurina*), black sage (*Salvia mellifera*), manzanita (*Arctostaphylos* spp.), lemonadeberry (*Rhus integrifolia*), chamise (*Adenostoma fasciculatum*), California buckwheat (*Eriogonum fasciculatum*), and California lilac (*Ceanothus* spp.), along with various grasses. Mammals, birds, and the natural vegetation within these communities provided potential food sources to prehistoric inhabitants. Much of the natural vegetation in nearby low-lying areas has been displaced by modern land uses for urban development.



7/2/2015 10:46:45 AM H:\Research\Technology\1000\40145\TO_19_Bonita Pump Station\GIS\StateRecordSearch_Map.mxd



FIGURE 1
RECORD SEARCH BUFFER

USGS Quad Name: National City
Township: 17S; Range: 02W; Section 02

Source: Atkins 2015, National Geographic Society 2011-2013

Bonita Pump Station



Legend

Bonita Pump Station APE

1 inch = 200 feet

0 50 100 200

Feet

Source: ESRI, 2015

FIGURE 2
Bonita Pump Station - Site Vicinity Aerial



100046145

Bonita Pump Station

III. HISTORICAL OVERVIEW

Occupation in the San Diego region can be firmly attributed to over 7,000 years Before Present (B.P.) by radiocarbon dating, although there are some who suggest occupations beyond 10,000 years ago (Moratto 1984). However, there has been much debate in past years over how to synthesize a regional chronology.

Using Malcolm Rogers' chronology along the coast (Moratto 1984; Rogers 1939, 1945), the La Jolla I Complex can be characterized by flexed burials and "crude" scrapers. The La Jolla II Complex adds multiple projectile point types, formal cemeteries, and discoidal groundstone. The La Jolla III Complex is influenced by the eastern Yuman culture at around 4,000 B.P. After this point, an increase in terrestrial resources, especially acorn, is introduced and cremations firmly replace inhumations before 1,500 B.P. (Moratto 1984).

The people whom the Spanish first encountered in this area are known as the Kumeyaay. Their territory extended from the Pacific Ocean in the west, to the San Luis River/San Felipe Creek/Salton Sea to the north, almost to the Colorado River to the east, to approximately 30 miles south of Ensenada in Baja California, Mexico. Their language is in the Yuman language family of Hokan stock, and the two dialects are Ipai and Tipai (Luomala 1978).

Within Kumeyaay territory, bands comprised of approximately five to 15 autonomous kinship groups controlled portions of land measuring between 10 and 30-miles in length. These areas were located within drainage systems extending from the coast to the desert via the foothills and mountains (Shipek 1982). This allowed the groups to have access to resources from multiple ecological zones throughout the year. Thus, Kumeyaay subsistence patterns included fishing and hunting, as well as desert irrigation farming along the Colorado River and its tributaries. Wild plants and seeds were also harvested, including agave, yucca, manzanita, elderberry, chia, buckwheat, cholla, prickly-pear cactus, piñon nuts, and acorns. Acorns were gathered from several different species of oak in the late summer, and were stored in family and village granaries. Mesquite replaced acorn as a primary staple for Kumeyaay living in the eastern deserts (Luomala 1978). Wild game included woodrats, rabbits, doves, geese, quail, deer, antelope, and mountain sheep.

Shelter consisted of winter village structures and summer camp dwellings. Winter village sites were often found at lower elevations and within sheltered locations. These villages were comprised of dispersed single-family dwellings, which were composed of semi-subterranean, circular wooden pole frameworks that were covered with brush thatch and/or earth. Rectangular openings were constructed and faced east, while doors were placed to guard against the wind. A family-owned platform granary may have also accompanied this structure. Other structures found in the winter village included a communal ceremonial flat-roofed brush shelter, a dance ground, and a semicircular shelter for the *keruk* mourning ceremony. The dance circle and ceremonial shelter were often reinforced with a low rock wall. Summer campsites were less elaborate, and were selected for access to water, drainage, dietary resources, and protection from the elements. Windbreaks, trees, and/or caves with rocky overhangs served as summer campsite shelters (Luomala 1978).

Kumeyaay peoples had a varied material culture reflective of the many ecosystems they utilized. They created finely woven baskets; twined caps; agave fiber sandals; a variety of ceramic vessels, including miniature forms, pipes, and human figures; throwing sticks; mesquite war clubs; and a double-bladed paddle which was used with their tule watercraft (Luomala

1978; Pritzker 2000). They largely traded amongst their own group; however, they also participated in trade between the southwest and the Pacific coast.

The historic period in San Diego is considered to have begun with the founding of Mission San Diego de Alcalá in 1769. The Spanish Mission system served both as a way to provide a means of colonization for the Spanish and also as a safe rest stop for travelers along El Camino Real, or the King's Highway. After the Mission System became secularized in 1833 (California Missions Resource Center 2015a), portions of mission lands were granted as *ranchos*.

After the secularization of the Mission System, mission lands became available to locals through the land grant system. Many settlers flocked to Sweetwater Valley to use the lands for ranching and agriculture. In 1843, Juan Forster received a land grant of over 26,000 acres surrounding the Sweetwater River and built a cattle farm. After a long battle for land rights during the Mexican-American War, Forster claimed financial difficulty and sold the rancho. Rancho ownership changed hands many times until 1868, when Frank and Warren Kimball bought the ranch land and subdivided lots in order to draw residents to National City. San Diego Land & Town Co. had acquired the remaining ranch land and continued to sell (San Diego History Center 2011).

In 1888, the Sweetwater Dam was built. When it broke in 1906, severe flooding in the area occurred. Between the mid-1880s and 1930s, Sweetwater Valley was known for its many ranches and "orchards of citrus, mulberry, and eucalyptus trees" (Sweetwater Valley Civic Association 2015). After World War II, the population boomed and urban development began in the area. Sweetwater Valley would continue to struggle with balancing its rancho roots and urban development for years to come. (Sweetwater Valley Civic Association 2015).

Study Methods

In order to ascertain the proximity of existing cultural resources to the APE and project area, a record search was undertaken by the South Coast Information Center (SCIC), at San Diego State University. The search encompassed a one-mile search radius around the proposed project's APE. This records search was completed to determine the general character of the cultural resources within the project area as well as to gauge the potential effects of the proposed construction activities. A Sacred Land File search was also conducted with the California Native American Heritage Commission (NAHC).

A pedestrian survey was conducted on July 30, 2015 to inspect the ground surface for cultural resources. Digital photographs were taken to document the character of the proposed project's APE and survey conditions.

IV. RESULTS OF STUDY

Archival Research

A California Historical Resources Information System (CHRIS) data request form was submitted to the SCIC and the results were received in the Atkins San Diego office on July 19, 2015 (Attachment A). There were no previously recorded resources within the APE. However, there were 6 previously recorded resources, and 19 historic addresses within a one-mile buffer of the project's APE (Table 1). These resources consist of 18 historic residences, one Historic District, one prehistoric village site that occurs in private homeowner's land, two prehistoric lithic scatters, one 2-3 acre prehistoric lithic scatter with a 2-3 foot deep midden, one prehistoric marine shell scatter that includes a core fragment, and one prehistoric metavolcanic flake isolate.

Table 1. Cultural Resources within 1-mile of the Proposed Project's APE

Primary No. P-37-	Trinomial No. CA-SDI-	Resource Description	Recording Events	Proximity to APE
P-37-004635	CA-SDI-4635	Prehistoric – Lithic and/or Ceramic scatter with manos, midden 3 feet deep. Destroyed by housing development.	Originally recorded by Ezell, no date.	Within 1 mile
P-37-004676	CA-SDI-4676	Prehistoric – Originally recorded as 10-15 flakes on two west-facing knolls. Updated as two flakes, a core and possible hammerstone.	Originally recorded by Ainsworth and Carrico in 1976. Updated by Hoff and Carrell in 2005	Within 1 mile
P-37-004677	CA-SDI-4677	Prehistoric – Lithic scatter of 6-10 flakes	Originally recorded by Ainsworth and Carrico in 1976	Within 1 mile
P-37-010077	CA-SDI-10077	Prehistoric – Large late prehistoric village site. Currently in several backyards.	Recorded by Hector in 1984	Within 1 mile
P-37-010990	CA-SDI-10990	Prehistoric – marine shell scatter and artifact scatter (including one core)	Recorded by Kelsay, Laylander, and Whitten in 1988	Within 1 mile
P-37-014899	CA-SDI-1201	Prehistoric – Isolate. Fine-grained black metavolcanic flake 6x6cm with heavy patina.	Recorded by Kelsay, Laylander, Crafts and Whitten in 1988.	Within 1 mile
P-37-017371		Historic – H. Grafton & Martha Chapman House	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017376		Historic – Kate Tripp House	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017389		Historic – Russell C. Allen House	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017390		Historic – Frank Kimball Olive Trees	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017391		Historic – Horton House	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017393		Historic – Tom Stephens Residence	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017394		Historic – Adele Whelan Schurch House. Same as P-37-027468.	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017395		Historic – Elsie S. Kimberly Residence	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017396		Historic – Elsie Kimberly Art Studio	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017398		Historic – Neil and Amy Dittenhaver Residence	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017406		Historic – Frank P. Allen Ranch	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017420		Historic – El Miradero / Olson Residence	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017421		Historic – Sweetwater Women's Club	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017433		Historic – Sweetwater Fruit Company Packing House	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017434		Historic – E.W. and Bertha Davis Residence	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-017435		Historic – Willow Street Bridge	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-027468		Historic – Adele Whelan Schurch House. Same as P-37-017394.	Recorded by Carrico, Crawford and Flanigan in 1990	Within 1 mile
P-37-027488		Historic – The Allen House	Recorded by May in 2002	Within 1 mile
P-37-029328		Historic – Glen Abbey Memorial Park Historic District	Recorded by Moomjian in 2007	Within 1 mile

In addition, there are 27 reports on file at the SCIC for the APE and within one-mile of the proposed project's APE (Table 2). Four reports were recorded for the historic district, 5 were for the Sweetwater River Regional Park, and eighteen were recorded for urban development purposes.

Table 2. Previous Studies Conducted within 1-mile of the Proposed Project's APE

Report Number	NADB	Authors	Year	Title	Proximity to APE
SD-00599	1120599; 11208-010130	Corum, Joyce	1989	Extended Phase I Investigation at Sites CA-SDi-10,986, 10,987, 10,988, 10,989, and 10,990, II-SD-54 P.M. 1.8/5.7, 11208-010130.	Within 1 mile
SD-00800	1120800	Kelsay, Richalene	1988	An Archaeological Survey Report for Proposed Interchanges and Widening on State Route 54, San Diego County, California 11-SD-54 P.M. 1.8/5.7 11221-010130	Within 1 mile
SD-00821	1120821	Germeshausen, Edward Jr.	1973	An Archaeological Survey of Dr. Leonard Bloom's Sports World Development Area	Within 1 mile
SD-00838	1120838	Fink, Gary	1978	Sweetwater Regional Park Bonita, California A Cultural Resource Assessment Project No. UJ0234	Within 1 mile
SD-00991	1120991: N-11-535	Gross, Tim	1974	A Report of Cultural Impact Survey Phase II Project: P.M. 1.9-16.3 11-SD-54 Rte. 805 to Rte. 8	Within 1 mile
SD-01657	1121657	Wade, Sue A.	1985	Cultural Resource Survey of the Valley Road Project Area National City, California	Within 1 mile
SD-02078	1122078	County of San Diego	1989	Draft Environmental Impact Report for Sweetwater Regional Park Revised Schematic Master Plan and Major Use Permit	Within 1 mile
SD-02132	1122132	County of San Diego	1979	Draft Environmental Impact Report for Sweetwater Regional Park Bonita, California	Within 1 mile
SD-02319	1122319	Roth, Linda	1992	Cultural Resources Survey of the Proposed 8.9 Acre Demich Subdivision Chula Vista Tract #91-2, Chula Vista	Within 1 mile
SD-02527	1122527	Robbins-Wade, Mary and G. Timothy Gross	1991	Cultural Resources Inventory Bonita Road Widening, Bonita San Diego County	Within 1 mile
SD-04647	1124647	Westec Services, Inc.	1977	Rancho Robinhood III Archaeological Study	Within 1 mile
SD-06425	1126425	Carrico, Richard	1990	Historic Resources Inventory Sweetwater Valley	Within 1 mile
SD-08167	1128167	City of San Diego	2003	Notice of Preparation of a Draft Environmental Impact Report Otay Second Pipeline Improvement Program	Within 1 mile
SD-09516	1129516	Caterino, David	2005	The Cemeteries and Gravestones of San Diego County: An Archaeological Study	Within 1 mile
SD-09572	1129572; 13-03	Gallegos, Dennis R. and Monica C. Guerrero	2003	Cultural Resource Survey for the Bonita Library Project Chula Vista, California	Within 1 mile
SD-09596	1129596	Douglas, Diane and Carrel, Mark	2005	Cultural Resources Technical Report Fire Protection Project City of Chula Vista FEMA-1498-DR-CA, HMGP# 1498-118-48	Within 1 mile
SD-09929	1129929; SD-673-02	Aislin-Kay, Marnie and Christeen Taniguchi	2004	Records Search Results and Site Visit for Cingular Communications Facility Candidate SD-673-02 (Sweet Water Heights Park), Cagle Street, San Diego County, California	Within 1 mile
SD-10099	1130099	McGinnis, Patrick	2006	Historic Property Survey Report for the Willow Street Bridge Rehabilitation Project San Diego County, California	Within 1 mile
SD-10106	1130106	McGinnis, Patrick and Martin D. Rosen	2006	Archaeological Survey Report of the Willow Street Bridge Rehabilitation Project San Diego County, California	Within 1 mile
SD-10238	1130238	Bonner, Wayne and Sarah A. Williams	2006	Cultural Resource Records Search and Site Visit Results for Cricket Telecommunications Facility	Within 1 mile
SD-10502	1130502	Robbins-Wade, Mary	2003	Archaeological Resources Survey, Glen Abbey Memorial Park, Bonita, San Diego County, California	Within 1 mile
SD-10503	1130503	Alter, Ruth C.	2004	Cultural Resources Report for the Historic Assessment of Planned Modifications at Glen Abbey Memorial Park, Bonita, California	Within 1 mile

Table 2. Previous Studies Conducted within 1-mile of the Proposed Project’s APE

SD-11564	1131564	Moomjian, Scott A.	2007	The Glen Abbey Memorial Park Historic District, 3838 Bonita Road, Bonita, California 91902, Portions of APNs: 591-241-12; 592-040-10; 592-040-11	Within 1 mile
SD-11787	1131787	Zepeda-Herman, Carmen	2008	Negative Cultural Resources Survey Report for the Sweetwater River Phase III Trail Project	Within 1 mile
SD-12823	1132823	Rosen, Martin D.	2010	Historic Property Survey Report (HPSR) for the Replacement of the Willow Street Bridge (#57c-0011) Over the Sweetwater River in Chula Vista: Completion of Section 106 Compliance in Accordance with the Statewide Programmatic Agreement	Within 1 mile
SD-13882	1133882	Goodard, Cheryl	2012	Sweetwater Regional Park Equestrian Trail Phase III Project	Within 1 mile
SD-14678	1134678;	Bantilan-Smith, Meris	2012	Section 106 Consultation for SPL-2012-318 Bonita Canyon Erosion Control Improvements Project	Within 1 mile

One of the historic resources is Glen Abbey Memorial Park Historic District, founded in 1924, which rests within one mile of the APE, and is significant because it’s the first memorial park in the greater Southwest. “Memorial Park” refer to the grave markers being flush to the ground. Its original design was produced by master architects Lincoln Rogers, Frank W. Stevenson, and master landscape architect Nathaniel E Slaymaker. Their works include Balboa Park, San Diego Zoo, the Naval Training Center in Liberty Park, and innumerable landscapes and buildings during the 1920’s that are integral to San Diego history. The architectural significance includes Spanish Eclectic Style and Gothic Style construction, both distinctive characteristics of San Diego County region during the 1920’s era. This Memorial Park qualifies as a historic district according to San Diego County Local Register of Historical Resources Ordinance 9493 V(b)(1) event (cemetery development), V(b)(3) architecture (Spanish Eclectic and Gothic), and V(b)(3) Work of Important, Creative Individuals (Master Architects and Landscape Architects) (Moomjian 2007).

A Sacred Lands File search was requested with the NAHC on July 2, 2015 and a response received on August 25, 2015. The NAHC response was that there is no indication of the presence of Native American cultural resources within the project area. The NAHC provided a list of Native American individuals and/or organizations who may have knowledge of cultural resources in the project area, and suggested they be contacted in regards to the project. Tribal scoping letters were sent out on August 31, 2015 to all contacts listed in the NAHC response. The Viejas Band of Kumeyaay Indians responded, requesting a copy of the cultural report in order to make an informed decision/recommendation on the project (Tribal communication letters are in Attachment B).

Field Survey and Evaluation of Significance

Principal Investigator Sandra Pentney and archaeologist Mariela Mendoza conducted an intensive pedestrian survey of the project area on July 30, 2015. Native American monitor Bobby Bolger was also present as a representative of the La Posta Band of Mission Indians. The survey was a preliminary cultural resource investigation to better understand potential impacts to cultural resources during construction activities. The pedestrian survey of the project area was completed in accordance with CEQA regulations. While surveying the project area, two contemporary concrete structures were found in the surveyed site. The first unknown concrete feature is approximately 3 feet by 3 feet in diameter and about 1 foot deep (Photo 2). The second contemporary concrete feature is believed to be a foundation for a wall, approximately 4 feet by 8 inches in width (Photo 3).



Photo 1. Overview East View of Project Area



Photo 2. Unknown Concrete Feature 1



Photo 3. Unknown Concrete Feature 2



Photo 4. Overview of Southern Part of Project Area

V. RECOMMENDATIONS

Previously recorded sites adjacent to the project area illustrate the regional sensitivity of the APE. Results from the SCIC indicate that although there have been many studies within one mile of the project area, none have specifically examined the project area. A known village site is located well within the one mile record search radius. The depth of sediments within the APE is unknown, and additional cultural resources may be encountered during construction activities. A City of San Diego-certified archaeological monitor and Native American Monitor should be on site during construction to observe ground-disturbing activities. If cultural material deposits are discovered during project construction, a qualified archaeologist shall be contacted to assess the deposit. In addition, if human remains of any age are discovered, the county coroner must be called.

Archaeological and Native American Monitors on site during construction will minimize any damage to newly discovered potential historic resources as they will halt and redirect equipment if any resources are uncovered during project construction. Ground-disturbing activities should only occur within the project area.

VI. SOURCES CONSULTED

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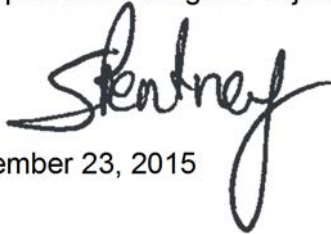
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VII. CERTIFICATION

Preparer: Sandra P. Pentney, M.A., RPA
Title: Principal Archaeologist/ Project Manager

Signature:



Date: November 23, 2015

VIII. ATTACHMENTS

- A. SCIC Record Search Results
- B. NAHC and Tribal Communication
- C. Tribal Fieldwork Summary
- D. Resumes of Project Personnel

ATTACHMENT A
SCIC Record Search Results



South Coastal Information Center
San Diego State University
5500 Campanile Drive
San Diego, CA 92182-5320
Office: (619) 594-5682
www.scic.org
nick@scic.org

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM RECORDS SEARCH

Company: Atkins
Company Representative: Sandra Pentney
Date Processed: 7/19/2015
Project Identification: Bonita Pump Station #100046145

Search Radius: 1 mile

Historical Resources: YES

Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.

Previous Survey Report Boundaries: YES

Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.

Historic Addresses: YES

A map and database of historic properties (formerly Geofinder) has been included.

Historic Maps: YES

The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.

Summary of SHRC Approved CHRIS IC Records Search Elements

RSID:	1055
RUSH:	no
Hours:	1
Spatial Features:	35
Address-Mapped Shapes:	yes
Digital Database Records:	17
Quads:	1
Aerial Photos:	0
PDFs:	Yes
PDF Pages:	135

ATTACHMENT B
NAHC and Tribal Communications



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July 02, 2015

Native American Heritage Commission
915 Capitol Mall, Suite 364
Sacramento, CA 95814-4801

VIA EMAIL: NAHC (nahc@nahc.ca.gov)

Subject: Request for a Sacred Land Files Search for the City of San Diego Bonita Pump Station Project, located 800 feet southeast of the Sweetwater River, City of San Diego, San Diego County, California (APN 5912411400) (USGS National City, CA. 7.5-minute topographic quadrangle).

Dear NAHC:

Atkins would like to determine whether any sacred sites are listed in the NAHC Sacred Lands File (SLF) for a project area relating to the City of San Diego Bonita Pump Station Project. The project consists of construction of a pump room, electrical room, electrical meter room, and new driveway. The overall footprint will be approximately 2 acres.

The project area is located in the City of San Diego, San Diego County, and is found on USGS National City, CA 7.5' topographic quadrangle.

Please notify us of any SLF-listed resources that may be affected by the proposed project and provide an updated contact list of Native American contacts with interests in this area.

If you have any questions or concerns, please do not hesitate to contact me via the contact information below. Atkins thanks you in advance for your time and effort.

Sincerely,

A handwritten signature in black ink that reads "Sandra Pentney".

Sandra Pentney, M.A., RPA
Archaeologist/Associate Project Manager
Sandra.pentney@atkinsglobal.com

Enclosures: Figure 1 – Location and APE Map

NATIVE AMERICAN HERITAGE COMMISSION

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August 24, 2015

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3570 Carmel Mountain Road, Suite 300
San Diego, CA 92130

Via Email: Michael.degiovine@atkinsglobal.com
Number of Pages: 3

RE: Bonita Pump Station Project (APN 5912411400), National City Quad, San Diego County

Dear Mr. DeGiovine,

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 373-3712.

Sincerely,

A handwritten signature in cursive script that reads "Katy Sanchez".

Ka Katy Sanchez
Associated Government Program Analyst

**Native American Contact List
San Diego County
August 24, 2015**

Ewiiapaayp Tribal Office
Robert Pinto Sr., Chairperson
4054 Willows Road Diegueno/Kumeyaay
Alpine , CA 91901
wmicklin@leaningrock.net
(619) 445-6315

(619) 445-9126 Fax

Sycuan Band of the Kumeyaay Nation
Cody J. Martinez, Chairperson
1 Kwaaypaay Court Diegueno/Kumeyaay
El Cajon , CA 92019
ssilva@sycuan-nsn.gov
(619) 445-2613

(619) 445-1927 Fax

Viejas Band of Kumeyaay Indians
Anthony R. Pico, Chairperson
P.O. Box 908 Diegueno/Kumeyaay
Alpine , CA 91903
jhagen@viejas-nsn.gov
(619) 445-3810

(619) 445-5337 Fax

Kumeyaay Cultural Historic Committee
Ron Christman
56 Viejas Grade Road Diegueno/Kumeyaay
Alpine , CA 91901
(619) 445-0385

Kwaaymii Laguna Band of Mission Indians
Carmen Lucas
P.O. Box 775 Diegueno-Kwaaymii
Pine Valley , CA 91962 Kumeyaay
(619) 709-4207

Kumeyaay Cultural Repatriation Committee
Steve Banegas, Spokesperson
1095 Barona Road Diegueno/Kumeyaay
Lakeside , CA 92040
sbanegas50@gmail.com
(619) 742-5587

(619) 443-0681 Fax

Viejas Band of Kumeyaay Indians
ATTN: Julie Hagen, Cultural Resources
P.O. Box 908 Diegueno/Kumeyaay
Alpine , CA 91903
jhagen@viejas-nsn.gov
(619) 445-3810
(619) 445-5337

Ewiiapaayp Tribal Office
Will Micklin, Executive Director
4054 Willows Road Diegueno/Kumeyaay
Alpine , CA 91901
wmicklin@leaningrock.net
(619) 445-6315

(619) 445-9126 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Bonita Pump Station Project (APN 5912411400), National City Quad, San Diego County.

**Native American Contact List
San Diego County
August 24, 2015**

Iipay Nation of Santa Ysabel
Clint Linton, Director of Cultural Resources
P.O. Box 507 Diegueno/Kumeyaay
Santa Ysabel, CA 92070
cjlinton73@aol.com
(760) 803-5694

Kumeyaay Cultural Repatriation Committee
Bernice Paipa, Vice Spokesperson
P.O. Box 937 Diegueno/Kumeyaay
Boulevard, CA 91905
bernicepaipa@gmail.com

Sycuan Band of the Kumeyaay Nation
Lisa Haws, Cultural Resource Manager
1 Kwaaypaay Court Diegueno/Kumeyaay
El Cajon, CA 92019
(619) 445-4564

Iipay Nation of Santa Ysabel
Virgil Perez, Chairperson
P.O. Box 130 Diegueno/Kumeyaay
Santa Ysabel, CA 92070
(760) 765-0845

(760) 765-0320 Fax

Kumeyaay Diegueno Land Conservancy
Mr. Kim Bactad, Executive Director
2 Kwaaypaay Court Diegueno/Kumeyaay
El Cajon, CA 92019
kimbactad@gmail.com
(619) 659-1008 Office

(619) 445-0238 Fax

Inter-Tribal Cultural Resource Protection Council
Frank Brown, Coordinator
240 Brown Road Diegueno/Kumeyaay
Alpine, CA 91901
frbrown@viejas-nsn.gov
(619) 884-6437

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Bonita Pump Station Project (APN 5912411400), National City Quad, San Diego County.



Atkins North America, Inc.
3570 Carmel Mountain Road, Suite 300
San Diego, California 92130

Telephone: +1.858.874.1810
Fax: +1.858.259.0741

www.atkinsglobal.com/northamerica

August 27, 2015

Ralph Goff, Chairperson
Campo Band of Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: The City of San Diego Bonita Pump Station Project, located on Bonita Drive just west of Willow Street, San Diego County, California (USGS National City, CA. 7.5-minute topographic quadrangle)

Dear Mr. Goff:

Atkins is preparing a cultural resources assessment report for the City of San Diego Bonita Pump Station Project. The project consists of construction of a pump station; electrical room and electrical meter room; trenching for new and rerouted water lines; a new paved driveway; and new sidewalk, curb and gutter. The disturbances from this project consist of trenching, grading and paving south of Bonita Road (west of Willow Street), with some trenching within Bonita Road.

Atkins has requested a cultural resources records search completed at the South Coastal Information Center (SCIC), and a Native American Heritage Commission (NAHC) Sacred Lands File database search to support the Cultural Resources Assessment. To identify any cultural resources within or near the area of potential effect (APE), a one mile search radius was used for the cultural resources search from the SCIC (Attachment 1). The results of the cultural resources search from the SCIC identified twenty-three known cultural resources – one Late Prehistoric village site; two lithic scatters; one artifact scatter and marine shell scatter; one lithic and/or ceramic scatter with a three-foot deep midden; one isolated fine-grained black metavolcanic flake; one historic cemetery (Glen Abbey Memorial Park); and 16 historic houses/properties. The records search concluded that 27 area-specific survey reports are on file with the SCIC for the one mile search radius. Furthermore, one of these reports address various portions of the APE, which indicates that approximately 100 percent of the APE has been previously surveyed for cultural resources, and 100 percent of the APE has been addressed through literature reviews. Additionally, the NAHC record search results indicated that there are no known Native American sacred sites located within the immediate project area. The NAHC recommends additional Native American consultation.

Based upon the results of the original records search request and NAHC Sacred Lands File database search for the Bonita Pump Station Project, the APE contains no known cultural resources. The NAHC has identified you as an individual who may have knowledge of cultural resources within or near this APE area. If you are aware of any such properties, or if you have any information or concerns about the change in this project or the project area, please feel free to contact me at 858.514.1083 or sandra.pentney@atkinsglobal.com. You may also address and mail a response to my attention at the San Diego office.

Sincerely,

Sandra Pentney, M.A., RPA
Associate Project Manager/Archaeologist

Enclosures: Figure 1 - Regional Location Map

VIEJAS

TRIBAL GOVERNMENT

PQ Box 908
Alpine, CA 91903
#1 Viejas Grade Road
Alpine, CA 91901

Phone: 6194453810
Fax: 6194455337
viejas.com

September 3, 2015

Sandra Pentney
3570 Carmel Mountain Road, Suite 300
San Diego, CA 92130

RE: The City of San Diego Bonita Pump Station Project

Dear Ms. Pentney,

The Viejas Band of Kumeyaay Indians would like to request the cultural report to the above referenced project and in order to make an informed decision/recommendation on the matter.

Sincerely,

VIEJAS BAND OF KUMEYAAY INDIANS

8/28/15

Daily Native American Fieldwork Summary


Dates: 7/30/15

Below is a description of monitoring conducted by La Posta Native American Monitors for the Bonita Pump Station Survey.

DATE	MONITOR	SUMMARY
7/30/15	Bobby Bolger	<p>The survey area consists of the dirt area south of Bonita Road, between the road and the eucalyptus-covered slope to the south. The area appears to be fairly natural, though over a century of occasional pedestrian use and debris have slightly altered the surface.</p> <p>No cultural materials were encountered on the survey. Visibility was low in most of the site (ranging from 5%-85%) due to leaves and ground cover. While no prehistoric resources were noted, the top of a concrete wall was noted along the southern portion and the remains of two small holes were located (approximately the size of, but not consistent to the shape of, STPs). Additionally, there is a concrete 'boulder' on the western edge of the area indicating some level of dumping activity has gone on.</p>

Concerns: No cultural materials were noted on the survey, though due to vegetation-based visibility issues, the chances of finding a site that did exist in the area were very low. However, it should be noted that the area is essentially adjacent to the floodplain of the Sweetwater River. There are numerous prehistoric sites in and around Sweetwater River areas like this one because the river served as a major thoroughfare for the Kumeyaay, with numerous villages settled along its length. Some portions of the survey area may have intact deposition and it is important to ensure the preservation of possible resources during ground disturbance in areas with possible in-situ deposits. I recommend complete monitoring during ground disturbance to ensure the safety of possible subsurface cultural resources.

Sincerely,



Bobby Bolger
La Posta Assistant Cultural Resources Director

ATTACHMENT C
Tribal Fieldwork Summary

ATTACHMENT D
Resumes

Sandra P. Pentney, RPA

Senior Archaeologist

Sandra Pentney has 15 years of experience and has managed and conducted numerous cultural resource investigations throughout California. Veteran principal investigator, having performed numerous cultural resource inventories; archaeological surveys, evaluations, and mitigation; consultation with involved agencies, interested parties, and Native American groups; and evaluation of compliance with California state and federal laws. Her projects include archaeological testing, monitoring, and surveys; record searches; artifact analysis; and report writing. A skilled technical report writer, prepares cultural resource sections for environmental assessments, reports, and impact statements as required by the National Environmental Policy Act, Sections 106 and 110 of the National Historic Preservation Act, stipulations of the Federal Energy Regulatory Commission, and state legislation.

Ms. Pentney serves on the Board of Directors for the San Diego County Archaeological Society, and is the San Diego Regional Coordinator for the Society for California Archaeology's Statewide Climate Change and Archaeology project, which aims to inventory all cultural resources on public lands along the coast of California located within the sea level rise erosion zone.

Ms. Pentney's Atkins project experience includes:

Mitigation Monitoring Oversight, Palomar Community College District, San Marcos, CA. Project manager overseeing the mitigation monitoring and reporting plan for Palomar Community College District's master plan improvement projects across the campus. Worked with various subconsultants to provide paleontological, archaeological, and biological resource monitoring services for three projects. The projects have involved blasting and mass excavation during nesting bird breeding season. Creative work sequencing was devised to allow blasting activities to continue near an active birds nest. **Duration:** 2013-2015

Murrieta Hills Specific Plan Environmental Impact Report, City of Murrieta, CA. Archaeological principal investigator overseeing cultural resources studies for this project that involves environmental review and environmental impact report preparation for an urban land development project and Specific Plan amendment. Tasks include records search, comprehensive review of previous studies, intensive level field survey of nearly 1,000 acres, and preparation of a report and cultural resources testing plan. The survey resulted in recordation of several newly discovered archaeological sites including petroglyphs, fertility symbols, and extensive lithic scatters. **Duration:** 2014-2016

Otay Mesa Conveyance and Disinfection System, Otay Mesa Water District, Spring Valley, CA. Senior archaeologist who conducted a cultural resources survey for this project and contributed to both the cultural resources survey report and the project environmental impact report. Atkins is providing engineering design services for the design of the Otay Mesa conveyance and disinfection system project. The project includes a pipeline, disinfection facility, and a pump station to convey potable water from Otay Mesa to the 571-1 Reservoir. Work activities for the project include investigation of existing conditions and facilities; utility coordination; geotechnical investigation; preliminary design report for the pipeline, disinfection facility, and pump station; environmental documentation; professional surveying; public outreach and community relations; California Department of Public Health

Education

M.A., Archaeology, University of Saskatchewan, 2002

B.A., Anthropology (Honors), Lakehead University, 1997

Registrations/licenses

Registered Professional Archaeologist (RPA), 2004

Certifications

San Diego County Qualified Archaeological Consultant


Professional affiliations

Register of Professional Archaeologists, 2004-present

Society for American Archaeology, 1996-present

Society for California Archaeology, 2010-present

Society for California Archaeology Climate Change Committee, 2015



Sandra P. Pentney, RPA
Senior Archaeologist

compliance regulations; water quality and corrosion study of desalinated water; preparation of construction contract documents for 30, 60, 90, and 100 percent phases; easement appraisal and acquisition; construction phase services; and water quality testing. **Duration:** 2013-2016

Buchanan Canyon Emergency Sewer Project Archaeological Monitoring Services, Spring Valley, CA. As part of Atkins' as-needed environmental services contract with the City of San Diego, served as senior archaeologist providing cultural resources monitoring services for an emergency sewer repair project. This project included the widening of an access road through a canyon with a documented controversial cultural resource, and the potential for previously undiscovered cultural resources to be disturbed from the required ground disturbance. Completed background research on the recorded site, monitored ground disturbing activities, and conducted archival research on a historic feature that was in danger of being impacted by trenching activities. A report of findings is currently being prepared for submittal to the City. **Duration:** 2013–2015


Richmond Ferry Terminal and Route Environmental Assessment, Water Emergency Transportation Authority, San Francisco, CA. This project involves changes to existing infrastructure at the Richmond Ferry Terminal to accommodate upgrades to an existing ferry line. As Atkins California-based archaeologist, oversaw the completion of a Section 106 report for this project and assisted the Federal Transit Authority with Section 106 Consultation efforts. Impact considerations for this project included consideration of the National Register of Historic Places listed Rosie the Riveter Ford Assembly Plant Building. **Duration:** 2014-2015 est.

Environmental Impact Report, Academy of Arts University, San Francisco, CA. Assisted with the review and response to comments on the draft environmental impact report section. This long term project pertains to building modifications under the control of the Academy of Arts University in San Francisco. Many of the buildings are historic resources and required an in-depth review of impacts. The comments were extensive due to a large number of historical resources that will potentially be affected by the project. **Duration:** 2014-2015 est.

Black Mountain Access Road Repair Cultural Resources, City of San Diego, CA. As part of Atkins' as-needed environmental services contract with the City of San Diego, served as senior archaeologist who oversaw a sub consultant specializing in historic-era resources as they reviewed project impacts to potentially historic water infrastructure elements. **Duration:** 2014-2015 est.

Lake Camanche Village Water Storage Tank, Amador Water Agency, Amadore County, CA. Atkins provided services for the replacement of an aging water transmission pipeline tank and associated pipeline. Provided cultural resources review of the project under the California Environmental Quality Act and Section 106 which included archival research, a field survey and subsequent report. **Duration:** 2014

R-10A Reservoir Project, City of Henderson, NV. Atkins is providing engineering and environmental services to the City of Henderson for this access road project. Provided Section 106 cultural resources services to support the project including archival research, field surveys and report preparation. The road alignment travels through portions of a National Register of Historic Places listed site. **Duration:** 2014



Sandra P. Pentney, RPA
Senior Archaeologist

Gilman Drive Bridge Environmental, University of California, San Diego, CA.

The University of California, San Diego in cooperation with the California Department of Transportation wishes to construct a bridge over Interstate 5. Atkins was contracted to provide California Environmental Quality Act environmental review for the project, including cultural resources studies. Prepared a historic properties survey report in consultation with Caltrans archaeologists to support the project. **Duration:** 2013-2014.

Prior to joining Atkins, Ms. Pentney's project experience included:

NAS Fallon Environmental Assessment, Naval Facilities and Engineering Command Southwest, NV.

In coordination with over five different Navy departments, served as deputy project manager for this multi-faceted project to modify and enhance the existing Training Range, Bravo-16. Oversaw all aspects of the project from inception to completion; provided client liaison, prepared work plans and schedules, oversaw preparation of the environmental assessment, and prepared monthly progress reports. The project proposed closure of public land widely used for recreational activities, as the addition of a C-130 landing strip and expansion of a surface danger zone would put the public and military personnel in too close proximity to gunfire. Assisted the Navy in conducting targeted public meetings that presented the proposed closure and alternatives. **Duration:** 2012-2013

Confidential Client, Confidential Project, CA. For a confidential client, served as project manager to help complete a Department of Energy grant application, prepare a Form 200 application to obtain a waste discharge requirements permit, and identify an appropriate type of waste discharge facility to dispose of sludge of an unknown origin at a project site in Imperial County. This project had short timelines and a very eclectic mix of tasks.


Port Angeles Harbor, Washington State Dept. of Ecology, Port Angeles, WA.

Under a statewide toxics cleanup program for the Washington State Department of Ecology, was the cultural resources task manager for the Port Angeles Harbor sediment study and the upland dioxin sampling project associated with investigations of the former Rayonier Pulp Mill located on the Port Angeles Harbor shoreline. Both projects supported State efforts to address and remediate nearshore and submerged contaminated sites in the greater Puget Sound basin, as part of the Governor's Puget Sound Cleanup Initiative. Completed record searches, consulted with agency and tribal archaeologists, and oversaw field monitoring for harbor coring and grab sample activities. The investigation for the sediment study resulted in documentation of a submerged prehistoric site.

Biosolids Ordinance Environmental Impact Report, Kern County, CA. For the Kern County Planning Department, prepared the cultural resources section of an environmental impact report addressing a proposed amendment to Kern County's highly controversial ordinance for the land application of biosolids (treated sewage sludge) within its jurisdiction.

Solar and wind energy projects

Solar Star Project, SunPower Corporation, Kern and Los Angeles Counties, CA. Provided on-call services for construction monitoring, which involves



Sandra P. Pentney, RPA
Senior Archaeologist

construction of a 579-MW, 3,230-acre project that will be the world's largest solar power plant when completed in 2015. On-call work required being able to mobilize with little notice to assess cultural resources finds.

West Chocolate Mountains Renewable Energy Programmatic Environmental Impact Statement, Imperial and Riverside Counties, CA. For the Bureau of Land Management's California Desert District Office, prepared the cultural resource section of the National Environmental Policy Act environmental impact statement addressing the issuance of solar and wind energy rights-of-way and geothermal leasing within the West Chocolate Mountains Renewable Energy Evaluation Area.

California Valley Solar Ranch, SunPower Corporation, San Luis Obispo County, CA. Core contributor for the National Environmental Policy Act environmental assessment (EA) submitted in support of a loan guarantee from DOE for this project, which includes a proposed 250-MW solar photovoltaic power plant to be located on an approximately 4,700-acre site and reconductoring of a 35-mile segment of the Morro Bay-Midway transmission line of Pacific Gas and Electric, which crosses both San Luis Obispo and Kern Counties. Conducted limited field studies pertaining to the inadvertent discovery of a National Register of Historic Places-eligible resource, prepared cultural resources reports, and oversaw the work of a cultural resource subconsultant. Also prepared the cultural resource section for the EA, prepared and presented data to Native American Tribal contacts for the project, provided guidance on appropriate Tribal outreach, interacted with the California State Historic Preservation Office to ensure proper compliance for the EA process, and facilitated Native American consultation.


Silver State Solar Project, Clark County, NV. Prepared the cultural resource section of a third-party environmental impact statement addressing the 400-MW solar development project of First Solar Development, Inc., proposed for location on 2,900 acres of land under jurisdiction of U.S. Department of the Interior, Bureau of Land Management (BLM). Assisted in the public scoping meetings and collected data, reviewed studies prepared by the proponent on behalf of BLM, and worked with BLM and other agency staff to identify appropriate mitigation measures to reduce project impacts.

Lucerne Valley Solar Project, San Bernardino County, CA. Member of the team that prepared a third-party environmental impact statement for Chevron's 49-MW Lucerne Valley photovoltaic solar project on Bureau of Land Management (BLM) land, for submission to the BLM Barstow field office, contributed to the cumulative impact analysis, provided peer reviews, and helped finalize the section.

Solar PV Project, Los Angeles County, CA. On behalf of a confidential client, was a member of the team that provided permitting support for a 225-acre PV site.

Solar Power Generating Facilities, Fresno and Kings Counties, CA. For a confidential client, conducted field studies and archival research and contributed to the initial studies for nine potential solar project sites.

Mule Mountain Photovoltaic Solar Project, Riverside County, CA. For a confidential client, conducted a Class I cultural resource inventory for a photovoltaic solar project that was planned for location on Bureau of Land Management land.



Sandra P. Pentney, RPA
Senior Archaeologist

Solar Energy Sites, California and New Mexico. For a confidential client, conducted a desktop critical issues analysis addressing cultural resources and potential conflicts for 11 potential solar energy sites.

Clipper Wind Energy Sites, Clipper Windpower Development Company; Washington, Oregon, Colorado, Oklahoma. As part of critical issue analyses, completed file searches and cultural resource assessments of four proposed wind farm sites in Washington, Oregon (two sites), and Oklahoma. To support the environmental constraints analysis for a proposed 25,000-acre wind energy project site in El Paso County, Colorado, conducted a Class I site file search, developed a cultural resource constraints map, and prepared the cultural resource section of the final report. Based on the recommendations provided in the constraints analysis, the client retained the project team to provide full permitting and environmental studies for the proposed project site.

Mineral Mountain Wind Project, enXco Development Corporation (now EDF Renewable Energy), Beaver County, UT. Contributed to the critical issues and environmental permitting analysis for this 80-MW wind turbine project, being considered for location in a very archaeologically sensitive area near two large prehistoric obsidian quarries and many prehistoric archaeological sites on land administered by Bureau of Land Management (BLM). Conducted an intensive site file and archival records search, and then completed a fatal flaw analysis with recommendations for further study. Subsequently, conducted intensive field surveys and completed the survey report that was submitted to BLM.


Noble Power Wind Farm Sites, Noble Environmental Power, LLC, TX. Managed the archaeological field survey of areas of the Great Plains wind project in Hansford County that were covered under a U.S. Army Corps of Engineers Nationwide Permit. Also completed a cultural resources review as part of a site characterization study for a proposed Noble wind farm in Mitchell County.

Four Wind Energy Facilities, BP Wind Energy North America, Multiple Location in Texas. Conducted Class I cultural resource studies as part of the constraints analysis for four proposed wind farm projects located in Wichita, Archer/Young, Childress, and Hardeman counties.

Wind Energy Projects, Nevada and California. For a confidential client, contributed to the constraint reviews focusing to support planning for two potential wind energy sites in Washoe County, Nevada. For AltaGas, also conducted a Class III cultural resource survey and prepared the associated report for the proposed Walker Ridge wind project in Lake and Colusa counties, California.

Multiple Wind Energy Sites; California, Arizona, and Nevada. For a confidential client, was a member of the team that completed critical issue analyses (fatal flaw/feasibility studies) addressing visual resources, biological resources, hydrology, and cultural resources for seven very large areas of interest in California, Arizona, and Nevada. Conducted similar critical issue analyses for another client with six potential solar sites in six California counties.

Proposed Wind Farm, Lea County, NM. In support of critical issues analysis for this proposed wind energy site, conducted a site file search, completed cultural resources assessment, and oversaw the field survey conducted by a cultural resources subcontractor.



Sandra P. Pentney, RPA
Senior Archaeologist

Transmission lines


Santa Barbara Reliability Enhancement Project, California Public Utilities Commission, Santa Barbara and Ventura Counties, CA. The project team prepared a third-party California Environmental Quality Act addressing the reconductoring and upgrading of an existing 66-kV subtransmission line and eight substations operated by Southern California Edison. Worked with the project manager to establish an appropriate tribal outreach program for the project. Because it traverses some areas of sensitivity to the Chumash, also worked with several Chumash contacts to establish a complete tribal notification contact list and to ensure that pertinent tribal members were afforded the opportunity to comment and participate in the project.

Alberhill Substation and Transmission Lines, California Public Utilities Commission, Riverside County, CA. The project team prepared the third-party draft EIR for construction and operation of a SCE substation and transmission lines. Worked with the project manager and CPUC to establish an appropriately scoped tribal outreach program for the project, which traverses areas of sensitivity to the Soboba and Pechanga Tribes, including ethnographic village sites, sites with human remains, and traditional cultural landscapes. Worked with the tribes to ensure their concerns were taken into consideration in the EIR.

Eldorado-Ivanpah Transmission Project, California Public Utilities Commission and U.S. Dept. of the Interior, Bureau of Land Management; Nevada to California. Cultural resources team leader for the award-winning, joint third-party environmental impact report (EIR)/environmental impact statement (EIS) that was prepared under California Environmental Quality Act and National Environmental Policy Act for this 35-mile transmission line and substation project of Southern California Edison. Wrote the cultural resources section of the EIR/EIS; reviewed technical reports prepared by the applicant; and coordinated with Bureau of Land Management (BLM) archaeologists and the State Historic Preservation Offices of both California and Nevada to ensure that impacts on cultural resources were adequately assessed and that appropriate mitigation measures were delineated. A Historic Architecture and Engineering Report was required as part of project mitigation because the Eldorado-Ivanpah Transmission Project required the destruction of a historic transmission line. Reviewed the report to verify that it provided adequate documentation to mitigate for this loss of this resource. Also supported BLM in its Native American notification and consultation process, to help ensure that the EIR/EIS adequately addressed potential effects on the Native American community.

Valley-Ivyglen Subtransmission Line and Fogarty Substation, California Public Utilities Commission, Riverside County, CA. Identified and addressed data gaps, then helped prepare the cultural resources section of the draft environmental impact report for the 25-mile, 115 kV Valley-Ivyglen subtransmission line and the Fogarty substation, on behalf of CPUC.

Aliso Canyon Natural Gas Turbine Replacement Project, California Public Utilities Commission, Aliso Canyon, CA. Prepared the cultural resource section of the third-party environmental impact report for this natural gas turbine replacement project, which involves Southern California Edison's proposed installation of new electric-driven compressors, a new compressor station, a new substation, and over 25 miles of new fiber optic cable; as well as replacement of



Sandra P. Pentney, RPA
Senior Archaeologist

over 8 miles of existing transmission line. Also commented on a historic architectural and engineering report for a historic transmission line.

Power Plant, Northern Oregon. For a confidential client, helped complete the site certificate application that was submitted to the Oregon Department of Energy, Energy Facility Siting Council for a 400-MW, natural gas-fired, combined cycle generating station and associated transmission line.

Baja Transmission Line, Sempra Generation, San Diego County, CA.

Conducted a Class II archaeological investigation to ascertain compliance with Section 106 of the National Historic Preservation Act, as part of the preparation of an environmental assessment for this 1-mile transmission line extending from the Mexico border to the South West Power Link Line.

Oil and gas industry


Natural Gas Flex Plant, Pipeline, and Transmission Line; Umatilla and Morrow Counties, OR.

For a confidential client, the project team conducted a preliminary site investigation to examine the proposed location for a natural gas flex (combined heat and power) generation plant and the proposed and alternative routes for a natural gas pipeline and transmission line. The objective was to look for the presence of wetlands, bodies of surface water, noxious weeds, and special status plants and wildlife, including raptors (e.g., golden and bald eagles); burrowing owls; and Washington ground squirrels. Provided peer review of consultant-prepared reports and assessed them for adequacy per FERC guidelines. The project was subject to several delays which required expedited turnaround of reviews.

Clearwater LNG Port, Clearwater Port, LLC; Oxnard, CA. Provided cultural resource evaluations to support the preparation of a third-party environmental impact report (EIR)/environmental impact statement (EIS) under direction of the U.S. Coast Guard (lead agency). Participated in public scoping meetings, reviewed cultural resource studies, and prepared the cultural resource sections of the EIR/EIS. Also responsible for devising the cultural resource mitigation and monitoring plans.

Ruby Natural Gas Pipeline, El Paso Corporation (now Kinder Morgan, Inc.), Wyoming to Oregon. Conducted a cultural resource records search as part of the critical issues and alternatives analysis for this 675-mile, four-state natural gas pipeline crossing private, state, and federal lands, including those managed by U.S. Department of the Interior, Bureau of Land Management and the U.S. Department of Agriculture, Forest Service. Delineated areas that might have cultural resource issues that could hinder project development.

Oil and Gas Development Projects, British Columbia, Canada. Based in Fort St. John, crew chief for an archaeological survey of oil and gas developments located in remote areas of northeastern British Columbia. Developed the testing strategy, supervised the field crews, and wrote and submitted interim reports for several clients including PetroCanada, Shell, and El Paso Corporation. The work included application of GPS technology and use of both all-terrain vehicles and helicopters to access the sites.



Sandra P. Pentney, RPA
Senior Archaeologist

Department of Defense

Navy Base Point Loma, Naval Facilities Engineering Command Southwest, San Diego, CA. Prepared the cultural resource section of the Phase II base realignment and closure (BRAC) environmental assessment (EA) and compiled the site administrative records for both phases of the BRAC EA and associated documents. The project included reviews of prior cultural resource surveys and management plans for archaeological and architectural resources at Naval Base Point Loma, Naval Base San Diego, and Naval Base Coronado.

Chocolate Mountain Aerial Gunnery Range, Naval Facilities Engineering Command Southwest, Niland, CA. Cultural resource task leader for the preparation of National Environmental Policy Act environmental assessment (EA) documentation addressing ongoing training activities conducted by the Naval Special Warfare Group ONE at this desert training facility. Identified cultural resource survey requirements, developed the survey field strategy, and prepared the cultural resource section of the EA.

Naval Air Weapons Station China Lake, Naval Facilities Engineering Command Southwest, Ridgecrest, CA. Member of the cultural resource team for the base realignment and closure environmental assessment for the Weapons Survivability Laboratory at Naval Air Weapons Station China Lake. Many existing structures at the site are eligible for listing on the National Register of Historic Places, either individually or as contributing elements to a historic district. Reviewed the cultural resource report.

Other federal clients

Truckhaven Geothermal Leasing Area Environmental Impact Statement, U.S. Dept. of the Interior, Bureau of Land Management, Salton Sea, CA. Provided cultural resource evaluations for the environmental impact statement addressing environmental impacts of the proposed Truckhaven Geothermal Leasing Area in California's Imperial Valley.

Circuit Rider Program, U.S. Environmental Protection Agency; California, Nevada, and Arizona. Supported Environmental Protection Agency, Region 9 in its Public Water Systems Supervision and Underground Injection Control programs, assessed the content of ongoing Native American water/wastewater system operation and management training seminars.

Additional cultural resources

Lancaster Water Reclamation Plant, Lancaster, CA. Led a 7,500-acre survey in the western Mojave Desert to support facility expansion. The project resulted in the discovery of three previously unrecorded prehistoric archaeological sites and 15 isolates. Subsequently completed the testing phases for the sites and also completed a separate Section 106 report for a later project phase.

Planning Area 6, The Irvine Company, Irvine, CA. Managed full-time cultural resource monitoring at the Planning Area 6 urban land development. At times, the project required up to six cultural resource monitors working concurrently to keep up with a hectic grading schedule. The cultural resource monitoring resulted in the discovery of 13 archaeological sites—some more than 25 feet below ground

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surface. Oversaw and conducted test and data recovery excavations for the newly recorded sites. In support of the Planning Area 6 land development project, also managed field and laboratory work involving a crew of up to 18 field and laboratory employees at the Tomato Springs site.

Hellman Ranch, Seal Beach, CA. For nearly a year, provided archaeological monitoring and data recovery excavation for a new housing development. Excavation of a shell midden, included responsibility for the careful excavation and reburial of human remains in close coordination with Native American site monitors.

Additional Cultural Resource and Archaeological Investigations, Multiple Locations in California. Project archaeologist based in Irvine, California, supervised archaeological testing, monitoring, and survey projects; conducted lithic analyses for excavation projects; and consulted with clients on projects that involved Native American organizations and communities. Contributed to the development of a historic properties treatment plan for a residential development project, and completed Phase I cultural resource assessments and associated reports for two proposed bicycle path rights-of-way in El Dorado County.

Highway 63 Expansion Project, Government of Alberta Ministry of Transportation, Edmonton, Alberta, Canada. For two years, as project archaeologist and cataloging/analysis coordinator, was responsible for over 250,000 artifacts collected from 17 prehistoric archaeological sites. During the same period, catalogued and analyzed lithic artifacts recovered from many additional sites in northeastern Alberta.

Forest and Wood Industry Sites, Prince George, British Columbia, Canada. In 2000, was assistant field supervisor for an archaeological survey of wood industry cut blocks that included a walkover survey; shovel testing; and the coring and recording of culturally modified trees, including trees with bark removed and trees with scars from plank removal. In addition to providing periodic crew supervision, helped identify botanical species in the field and was a major contributor for the project report. In addition, was the technical writer and coauthor for archaeological impact assessments for the Small Business Forest Enterprise Program and the Evans Forest Products Golden Woodlands Division in the Columbia Forest District, Wardell Woodlot 12564 in the Invermere Forest District, and Fraser Lakes Sawmills in the Lakes Forest District. **Duration:** 2000

Additional Archaeological Projects, Canada.

- Field supervisor for the Lac La Ronge Historical Society, planned and oversaw all aspects of an archaeological field project in northern Saskatchewan.
- Master's thesis project for the University of Saskatchewan involved archaeological project planning, scheduling/cost control, and on-site management of a seven-person field crew conducting archaeological excavations at four sites in northern Saskatchewan.
- Field/laboratory technician supporting a joint research project of Lakehead and Brandon Universities; cleaned, identified, and catalogued artifacts from the Vera site in southwestern Manitoba.

Additional archaeological laboratory experience included cleaning and cataloging of artifacts and research on aboriginal history and prehistory for the Royal

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Senior Archaeologist

Saskatchewan Museum. At Lakehead University, reviewed 19th-century fur trade reports and diaries and helped create a multimedia software package focusing on archaeological education.

Instructor, University of Saskatchewan, Canada. Graduate teaching assistant with the University of Saskatchewan, co-supervised the laboratory section of an archaeology course focusing on map reading, artifact identification, and analytical techniques. Helped create exercise materials and examinations and assisted in test evaluation.

Additional training

To support her fieldwork in remote areas, completed training in wilderness first aid, standard first aid, and cardiopulmonary resuscitation (St. John's Ambulance). Trained spotter for the Civil Air Search and Rescue Association in Dryden, Ontario and Edmonton, Alberta, Canada.

Publications

McCollum C., G. Timothy Gross, and S. Pentney, "Class I and III Cultural Resources Inventory for the Proposed Walker Ridge Wind Project, Lake and Colusa Counties, California," 2011.

Pentney, Sandra, "Cultural Resources Investigations for Energia Sierra Juarez Gen-Tie Project, Jacumba, California," 2009.

Pentney, Sandra, "Cultural Resources Monitoring for Port Angeles Upland Dioxin Characterization Study," 2009.

Pentney, Sandra, M. Pritchard-Parker, H. Roberts, S. Eskenazi, J. Stout, V. Parker, "A Class I and III Cultural Resources Inventory of the Mineral Mountain Wind Project Area, Beaver County, Utah," 2009.

Pentney, Sandra, C. McCollum, G. Cardenas, and G. Timothy Gross, "Cultural Resources Investigations in Portions of the Naval Special Warfare Desert Warfare Training Facility," 2009.

Pentney, S., and H. Thomson, "Cultural Resources Monitoring for Port Angeles Harbor Sediment Characterization Study," 2008.

Pentney, Sandra, "Port Angeles Harbor Sediment Investigation Cultural Resources Monitoring and Reporting Protocols," 2008.

Pentney, Sandra. "Port Angeles Upland Sediment Investigation Cultural Resources Monitoring and Reporting Protocols," 2008.

Pentney, Sandra, "Phase 1 Cultural Resources Assessment of a Proposed Bicycle Path Right-of-Way along Sawmill Road, El Dorado County, California," 2006.

Pentney, Sandra. "Phase 1 Cultural Resources Assessment of a Proposed Bicycle Path Right-of-Way along Lake Tahoe Boulevard, El Dorado County, California," 2006.

Pentney, Sandra and G. Archer. "Cultural Resource Inventory for the Lancaster Water Reclamation Plant 2020 Facilities Plan," 2006.

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Pentney, Sandra, "Analysis of Lithic Artifacts from the Center Village Sites, Irvine, California," 2006.

Archer, Gavin H. and S. Pentney, "Historic Properties Treatment Plan for the Planning Area 6, Phase 2 Residential Project," 2005.

Brandzin, Vera, Bruce Low, and Sandra Pentney, "Results of the Year 2000 Archaeological Impact Assessment for the Small Business Forest Enterprise Program, Columbia Forest District," 2000.

Brandzin, Vera, Bruce Low, and Sandra Pentney, "Results of the Year 2000 Archaeological Impact Assessment for Evans Forest Products, Golden Woodlands Division, Columbia Forest District," 2000.

Brandzin, Vera, Bruce Low, Paul Harrison, and Sandra Pentney, "Results of the Archaeological Impact Assessment of Wardell Woodlot 1564, Invermere Forest District," 2000.

Low, Bruce, Vera Brandzin, and Sandra Pentney, "Results of 2000 Archaeological Impact Assessment within the Lakes Forest District, for Fraser Lake Sawmills," 2000.

Low, Bruce, Vera Brandzin, and Sandra Pentney, "Results of 2000 Archaeological Impact Assessment within the Vanderhoof Forest District, for Fraser Lake Sawmills," 2000.

Pentney, Sandra., L. Carson, et al. 10th Annual Anthropology, Physical Anthropology, Linguistics, and Archaeology (APALA) Student Conference, Proceedings and Abstracts. University of Saskatchewan, Saskatoon, January 28-30, 2000.

"The Archaeology of Brabant Lake: Interactions between Two Archaeologists, a Lake, and the Family Who Grew Up There," In 10th Annual APALA Student Conference, Proceedings and Abstracts, University of Saskatchewan, Saskatoon, January 28-30, 2000. pg 143-146.

"Proceedings and Abstracts of the 8th Annual APALA Student Conference January 23-25, 1998." Edited by Carson, L.L., N. Friesen, J. Taylor-Hollings, and S. Pentney. University of Saskatchewan, Saskatoon.

"Intra-Site Artifact Distributions at the Jackson Site (DiMe-17)," in Proceedings and Abstracts: 6th Annual APALA Student Conference: January 12-14, 1996. pp. 5-10. Edited by B. D. Low and R. Wondrasek, University of Saskatchewan Printing Services, Saskatoon.

Presentations

Pentney, Sandra P., "California Archaeology and Climate Change," presented at the Society for American Archaeology (SAA) Annual Meeting, San Francisco, CA, April 16, 2015.

Pentney, Sandra P., "Climate Study in San Diego County," presented at the Society for California Archaeology Annual Meeting, Redding, CA, March 14, 2015.

Michael M. DeGiovine

Field Technician

Michael DeGiovine serves in the capacity of field technician in Atkins' cultural resources program. His experience includes all phases of archeological investigation. As a field technician, Mr. DeGiovine's responsibilities include impact evaluations, trenching, linear and acreage surveys, National Register of Historic Places (NRHP) and California Register of Historic Resources (CRHR) testing and data recovery excavations, mapping of sites and excavated remains, and the cataloging of excavated data in the field. He has served as a field technician for both historic and prehistoric sites. Mr. DeGiovine's project experience includes:

City of San Diego El Capitan Blow-off Stabilization Project. Atkins provided cultural resources support for the City of San Diego in regards to cultural resources that may be considered for eligibility on the NRHP, CRHR, and/or the San Diego Register of Historic Resources under Section 106 of the NHPA and CEQA. Mr. DeGiovine conducted background research, participated in the cultural resources survey, and co-authored the report.

City of Vista Green Oak Trunk Sewer Replacement Project. Atkins provided cultural resources support for the City of Vista in regards to cultural resources that may be considered for eligibility on the CRHR under CEQA. Mr. DeGiovine conducted background research, participated in the cultural resources survey, and co-authored the report.

Bureau of Land Management Gray's Well and Gecko Road Improvements Project. Atkins provided cultural resources support for the Bureau of Land Management in regards to cultural resources that may be considered for eligibility on the NRHP under Section 106 of the NHPA. Mr. DeGiovine conducted background research, provided archaeological monitoring for the project, and co-authored the report.

Bureau of Land Management Gecko Road Improvements Project. Atkins provided cultural resources support for the Bureau of Land Management in regards to cultural resources that may be considered for eligibility on the NRHP under Section 106 of the NHPA. Mr. DeGiovine conducted background research, participated in the archaeological survey, and co-authored the report.

City of San Diego Kalmia Street Emergency Sewer Reroute Project. Atkins provided cultural resources support for the City of San Diego in regards to cultural resources that may be considered for eligibility on the NRHP, CRHR, and/or the San Diego Register of Historic Resources under Section 106 of the NHPA and CEQA. Mr. DeGiovine conducted background research and was the archaeological monitor on site during ground disturbing activities.

City of San Diego 32nd Street Long-Term Access Project. Atkins provided cultural resources support for the City of San Diego in regards to cultural resources that may be considered for eligibility on the NRHP, CRHR, and/or the San Diego Register of Historic Resources under Section 106 of the NHPA and CEQA. Mr. DeGiovine conducted background research, participated in the archaeological survey, and co-authored the report.

City of San Diego Manning Canyon Long-Term Access Project. Atkins provided cultural resources support for the City of San Diego in regards to cultural resources

Education

B.A., Anthropology, University of California, 2005

Professional affiliations

San Diego County
Archaeological Society

Texas Archaeological Society

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that may be considered for eligibility on the NRHP, CRHR, and/or the San Diego Register of Historic Resources under Section 106 of the NHPA and CEQA. Mr. DeGiovine conducted background research and assisted with the survey.

Stadium Wetland Mitigation Project (San Diego River). Atkins provided cultural resources support for the City of San Diego in regards to cultural resources that may be considered for eligibility on the NRHP, CRHR, and/or the San Diego Register of Historic Resources under Section 106 of the NHPA and CEQA. Mr. DeGiovine conducted background research, participated in the archaeological survey, and co-authored the report.

Otay Mesa Conveyance and Disinfection System Project, Otay Water District, Spring Valley, CA. Atkins is providing engineering and environmental services for the design of the Otay Mesa conveyance and disinfection system project. Work activities for the project include investigation of existing conditions and facilities; utility coordination; geotechnical investigation; preliminary design report for the pipeline, disinfection facility, and pump station; environmental documentation; professional surveying; public outreach and community relations; California Department of Public Health compliance regulations; water quality and corrosion study of desalinated water; preparation of construction contract documents for 30%, 60%, 90%, and 100% phases; easement appraisal and acquisition; construction phase services; and water quality testing.

U.S. Army Corps of Engineers (USACE) 88th Regional Support Command, Tumwater, Washington State. Atkins provided cultural resources support for USACE in regards to compliance with Sections 106 and 110 of the National Historic Resources Act. Mr. DeGiovine conducted background research, conducted a Phase I archaeological survey, and co-authored the report.

Prior to joining Atkins Mr. DeGiovine's project experience included:

Sewer & Water Group 809, City of San Diego, CA. Excavation and screening of selected locations throughout the neighborhood of La Jolla Shores in advance of utilities update and/or replacement.

Genesis Solar Energy and Mojave Solar Project, CA. Archaeological monitoring of construction activities in both direct and indirect support of solar plant construction. Mass grading, fine grading, trenching, auguring, fiber optic conduit installation, and other activities involved. Recording and collection of unanticipated discoveries.

Transmission Line Projects

- Devers-Palo Verde II: Phase I survey for alignment and substations throughout 2008. Updating archaeological site forms as well as recording previously unknown archaeological sites with Trimble GPS units. Also monitored construction of alignment and associated activities.
- Sunrise Powerlink: Archaeological monitor for field survey crews in layout of the Sunrise Powerlink Southern Route in Imperial and San Diego Counties. Also provided monitoring during construction phase of the project.

Military Facilities

- Donnelly and Yukon Training Areas: Systematic survey in the Donnelly and Yukon Training Areas in Fort Wainwright and Fort Greeley, Delta Junction,

**Michael M. DeGiovine**

Field Technician

Alaska. Survey and test and evaluation of archaeological sites as part of a multi-year project of military base surveying.

- Fort Irwin NTC: Participated in on-base 10,000 acre survey and co-author on its report. Performed on-call surveys as needed, site testing and evaluation, and quarterly monitoring of NRHP-eligible sites.

On-Call Archaeological Support, City of San Diego, CA. Archaeological Monitor during ongoing utility undergrounding operations.

On-Call Environmental Work, Southern California Edison, CA, AZ.

Archaeologist and/or report co-author for multiple components of an extensive on-call contract for necessary maintenance work completed on both private and federal lands. Duties included survey of areas of potential effect and resulting testing and monitoring for the replacement of deteriorated poles, operations and maintenance activities, and distribution substation planning in locations throughout southern California, to include the Mojave and Colorado Deserts.

Environmental Support for Telecommunications Projects, CA. Field survey of cities and school districts for determination of categorical exemption for cultural resources as defined by CEQA standards for NextG Networks and Sunesys LLC. These clients provide “last mile” broadband access through fiber optic lines and Distributed Antenna Systems (DAS) throughout a large portion of the state of California.

Archaeological Support for the Mexican Hollywood Project, Port of Los Angeles, San Pedro, CA. Archaeological monitor during excavation for construction of two water features near Berths 91 and 93.

Environmental Support for the Tomato Springs Development Project, Irvine Company, Irvine, CA. Excavation, wet screening, lab sorting and tree removal monitoring as mitigation for the Irvine Company’s Portola Spring housing development.