APPENDIX B

SHPO APE CONCURRENCE LETTER DATED OCTOBER 3, 2013
October 03, 2013

Jim Tompkins
Vice President-Senior Project Manager
Rugraw, Incorporated
P.O. Box 421
Tiburon, CA 94920

RE: Section 106 Consultation Lassen Lodge Hydroelectric Project, Tehama County, CA (FERC Project No. 1296-000-California)

Dear Mr. Tompkins:

Thank you for your letter dated August 28, 2013, continuing consultation with me on behalf of the FERC for the above referenced project in order to comply with Section 106 of the National Historic Preservation Act and its implementing regulations at 36 CFR 800. You are requesting that I concur with the adequacy of the delineated Area of Potential Effects (APE) for the undertaking. In addition to your letter, you have submitted the following document:

• Attachment A Project Description and Description of the Area of Potential Effect and Proposed Work Plan. Proposed Lassen Lodge Hydroelectric Project FERC Project No. 12496 Tehama County, California (Tetra Tech 2013)

As I understand it, Rugraw, Inc. is seeking a FERC license for a project that proposes to construct a small hydroelectric project on the Upper South Fork Battle Creek on the western slopes of the Cascade Range approximately 3 miles west of the town of Mineral, an unincorporated community in Tehama County, California. The project is on private land with the exception of 1 mile that is within a county road right-of-way (ROW). The APE for the project consists of an indirect and a direct APE. The proposed direct APE consists of surfaces and depths that will be disturbed within the project footprint and includes 2 acres of diversion and intake structures, 3.5 acres for a powerhouse, 3.2 acres of multipurpose areas, a 1 acre transition structure, a penstock pipeline measuring 120 ft. wide by 2.4 miles long, 2.9 acres for a potential tower location, a transmission line measuring 120 ft. wide by 12 miles long, a station service line measuring 120 ft. long by .4 miles long, and transmission line pulling areas. The acreage included for each proposed facility of the project includes the total width of disturbance, proposed travel ways and workspace. The proposed indirect APE generally includes the direct APE as well as historic viewsheds within the study area. The proposed vertical APE extends from approximately 60 ft. above the existing ground surface to approximately 20 ft. below the ground surface. After reviewing the report you provided, I have the following comments:

• Pursuant to 36 CFR 800.4(a)(1) and 800.16(d) I have no objections to the current delineation of the APE for this undertaking. If the proposed project activities and or work areas should change, the APE should be modified to reflect those changes. Specifically, it is recommended that Rugraw, Inc. include the entire extent of potential areas that will be used for work related activities within the APE. This should include staging, access to and from work areas, and maneuvering during work activities.
Please be advised that under certain circumstances, Rugraw (acting on behalf of the FERC) may have additional future responsibilities for this undertaking under 36 CFR Part 800. Thank you for considering historic properties as part of your project planning. I look forward to continuing consultation on this project. Please direct any questions or concerns that you may have to Jessica Tudor at 916-445-7016 or email at Jessica.tudor@parks.ca.gov.

Sincerely,

Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer
APPENDIX C

NORTHEASTERN INFORMATION CENTER RECORD SEARCH RESULT
LETTER AND MAPS [CONFIDENTIAL]
Ms. Jenna Farrell  
Tetra Tech, Inc.  
2969 Prospect Park Drive #100  
Rancho Cordova, CA 95670  

December 11, 2012

I.C. File # D12-103  
Records Search

RE: Lassen Lodge HEP 106-4647 01.01  
T29N, R1F, Sections 1, 2; T29N, R2E, Sections 7-10, 14, 23; T29N, R3E, Sections 19-21, 28-30; T30N, R1E, Section 27, 28, 35  
USGS Finley Butte, Gray's Peak, Lyonsville, Manton, and Shingletown 7.5' and Lassen Peak and Manton 15' quads  
Approximately 13 linear miles, estimated from project map (Tehama County)

Dear Ms. Farrell,

In response to your request, a records search for the project cited above was conducted by examining the official maps and records for archaeological sites and surveys in Tehama County. Please note that this record search includes the requested one-mile radius surrounding the project area.

RESULTS:

Prehistoric Resources: According to our records, no prehistoric sites have been recorded in the project area. However, nine sites of this type have been recorded within the one-mile project vicinity. Site locations are plotted in red on the enclosed project map. Site descriptions are listed in Table 1, below, and copies of resource records are attached. The project is located in a region utilized by Yana populations. Unrecorded prehistoric cultural resources may be located in the project area.
Table 1, Prehistoric Sites within the One-Mile Project Radius

<table>
<thead>
<tr>
<th>State Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-TEH-595</td>
<td>Village ? (destroyed) – flaked stone scatter</td>
</tr>
<tr>
<td>CA-SHA-1333</td>
<td>Flaked stone scatter, fire-cracked rock</td>
</tr>
<tr>
<td>CA-TEH-1334</td>
<td>Flaked stone scatter, fire-cracked rock</td>
</tr>
<tr>
<td>CA-TEH-1347</td>
<td>Flaked stone scatter</td>
</tr>
<tr>
<td>CA-TEH-1358/H</td>
<td>Midden, burials, flaked and ground stone scatter</td>
</tr>
<tr>
<td>CA-TEH-1490</td>
<td>Midden, flaked and ground stone scatter</td>
</tr>
<tr>
<td>CA-TEH-1846</td>
<td>Midden, house pits, flaked and ground stone scatter</td>
</tr>
<tr>
<td>CA-TEH-1847</td>
<td>Rock shelter, flaked stone scatter</td>
</tr>
<tr>
<td>52-002329</td>
<td>Flaked stone scatter</td>
</tr>
</tbody>
</table>

**Historic Resources:** According to our records, two historic sites have been recorded in the project area. Additionally, eight sites of this type have been recorded within the one-mile project vicinity. Further, two new resources of this type (not yet assigned State numbers) have been recorded within the one mile radius. Site locations are plotted in red on the enclosed project map. Site descriptions are listed in Table 2, below, and copies of resource records are attached. Unrecorded historic cultural resources may be located in the project area.

Table 2, Historic Sites within the One-Mile Project Radius

<table>
<thead>
<tr>
<th>State Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>52-001824</td>
<td>Last Chance Ditch, ca. 1901</td>
</tr>
<tr>
<td>52-001835</td>
<td>Last Chance Ditch</td>
</tr>
<tr>
<td>52-001933</td>
<td>Soap Creek Feeder Dam</td>
</tr>
<tr>
<td>CA-TEH-1358/H</td>
<td>Refuse deposit, ditches</td>
</tr>
<tr>
<td>52-002038</td>
<td>Refuse deposit</td>
</tr>
<tr>
<td>52-002041</td>
<td>Small historic sawmill</td>
</tr>
<tr>
<td>52-002042</td>
<td>Tehama County Wagon Road</td>
</tr>
</tbody>
</table>
CA-TEH-2113 | Refuse deposit
52-002114 | Forward Family Home, ca. 1900
CA-TEH-2185 | Refuse deposit
52-002330 | Water conveyance ditch
S-2 (field designation) | Water conveyance ditch
S-3 (field designation) | Water conveyance ditch

The USGS Finley Butte, Gray’s Peak, Lyonsville, Manton, and Shingletown 7.5’ and Lassen Peak and Manton (1956) 15’ quad maps indicate that Ponderosa Way, Lassen National Forest, Initial Gulch, Blue Ridge, South Powerhouse Road, Manton School Road, Soap Creek, South Fork Battle Creek, and roads are located in the project area; Digger Creek Ripley Creek, Shasta County, Manton, Cross Country Canal, fish tanks, ponds, springs, Bluff Springs, Hogs Back, Devils Gulch, Long Ridge, Sand Spring Canyon, Union Canal, tunnel, Battle Creek Rod and Gun Club, Highway 36, Panther Creek, Lassen Lodge, CDF Fire Station, Cold Creek Butte, gravel pit, Grapevine Canyon, Grapevine Spring, structures, and roads are located in the one-mile project vicinity; and Battle Creek, fish hatchery, springs, Shingletown, Digger Butte Lookout, Snoqualmie Gulch, The Burn, Glines ranch, Cold Creek meadows, Hampton Butte, Lyonsville, Mineral, Ponderosa Sky Ranch, Paynes Creek, roads, and structures are located in the project vicinity.

The General Land Office Maps for T29N, R3E and T30N, R1E are attached. Depicted on those maps within the project area are the road to Red Bluff, sawmill, old emigrant trail, Belle’s Mill Road, V-Flume, Mill Road, Hazen’s house, ditches, trails, and Mill Road. Also enclosed is a copy of the Lassen Peak 1:250,000 map (1894/1910) depicting the town of Lyonsville and Belle Mill, as well as the Mineral 1:125,000 (1941/1948) map depicting South Powerhouse, ditches, Ponderosa Way, dams, Belle Mill Road, Lassen Camp, Cline Ranch, and Hazen Flat. Copies of the State Historic Property Directory for Tehama County and the Caltrans bridges historical significance listings are also attached. *Historic Spots in California* mentions the Sierra Lumber Company. C.F. Ellsworth designed and constructed the first V-flume in the state. The Empire (lumber) flume was built in the early 1870s, and ran from Lyman Springs to Sesma. This high-trestle flume followed Belle Mill Road. The route was changed in 1881. By 1878, several sawmills operating at Lyonsville had combined into Sierra Lumber Company. In 1907 the operation was purchased by Diamond Match Company. The Last Chance Ditch was completed in 1901 to help flume lumber from the Champion Sawmill 40 miles to Red Bluff.
**Previous Archaeological Investigations:** According to our records, portions of the project area and one-mile vicinity have been previously surveyed by professional archaeologists as well as Registered Professional Foresters. Study locations are plotted in green on the enclosed maps and copies of selected reports are enclosed. Copies of report detail records for non-selected reports are also enclosed. The studies are listed below.

Chavez, David (Environmental Science Associates)
1983 *Cultural Resources Evaluation for the South Fork Battle Creek Hydroelectric Project, Tehama County, California (FERC No. 5350).*
*IC Report 724*
Resources:
CA-TEH-595
CA-TEH-1333
CA-TEH-1334

Chilcott, Sherry and James Chapin
1993 *Archaeological and Historical Resources Survey and Impact Assessment for the Lassen Lodge Timber Harvest Plan, Tehama County, California.*
*IC Report 4133*
Resources:
CA-TEH-1333
CA-TEH-1334

du Chesne, Steve (Sierra Pacific Industries)
1996 *Archaeological and Historical Resources Survey and Impact Assessment: Panther THP.*
*IC Report 8406*

*IC Report 6280*
Resources:
P-52-002147
P-52-002148

Garrison, Dennis (Sierra Pacific Industries)
*IC Report 8304*

*IC Report 8407*
Hamusek, Blossom (CSU Chico, Archaeological Research Program)  
1988  *The Stratigraphy and Archaeology at CA-TEH-1490: A Hunting Camp in Yana Territory, Northern California.*  
**IC Report 896**  
Resources:  
CA-TEH-1490

1989  *Archaeological Reconnaissance of Bluff Springs Vegetation Management Plan, Tehama County, California.*  
**IC Report 9450**  
Resources:  
CA-TEH-1358/H

Jensen, Peter M. (Jensen & Associates)  
1982  *Archaeological Reconnaissance of the Proposed Digger-Battle Hydroelectric Project, Shasta County, California.*  
**IC Report 9436**  
Resources:  
CA-SHA-1346  
CA-SHA-1347

1984  *Archaeological Reconnaissance of the Proposed Bluff Springs Hydroelectric Project, Tehama County, California.*  
**IC Report 9448**  
Resources:  
CA-TEH-1358/H

Jenkins, Richard (California Department of Forestry and Fire Protection)  
2006  *An Archaeological Survey Report for the Lee 2006 CFIP (California Forest Improvement Program) Project, Tehama County, California.*  
**IC Report 6746**

2006  *An Archaeological Survey Report for the Gilmore CIFP (California Forest Improvement Program) Project, Tehama County, California.*  
**IC Report 6775**

Lindsey, Jeffrey (JL Forestry)  
1999  *Confidential Archaeological Addendum for the Manton Timber Harvesting Plan, Tehama County, California.*  
**IC Report 2663**
Livingston, Timothy J. (Sierra Pacific Industries)  
1993 Archaeological and Historical Resources Survey and Impact Assessment: Long Ridge THP.  
IC Report 9451

Mitzel, Mike (Sierra Pacific Industries)  
1998 Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California: South Fork of Battle Creek THP.  
IC Report 3614  
Resources:  
CA-TEH-595  
P-52-001835

Pellaton, Laura (Almanor Ranger District, Lassen National Forest)  
IC Report 5949  
Resources:  
CA-TEH-2113H

Possehn, Dennis (Possehn Consulting)  
1993 Archaeological and Historical Resources Survey and Impact Assessment: Bedell THP.  
IC Report 3620  
Resources:  
CA-TEH-1362

2002 Confidential Archaeological Addendum for the Dobson Conversion THP, Tehama County, California.  
IC Report 5886  
Resources:  
P-52-002114

Ritter, Eric W. (Bureau of Land Management)  
1988 Archaeological Reconnaissance to the South Battle Creek Area of Tehama County, California.  
IC Report 9454  
Resources:  
CA-TEH-1846  
CA-TEH-1847

Ritter, Eric and Christopher Parker (Bureau of Land Management)  
IC Report 9449

6
Roybal, Gerald (Roybal & Associates)
1998  *Greenville Rancheria Housing Project Reconnaissance Survey, Tehama County, California.*
IC Report 2290

Tiesen, Kim (Sierra Pacific Industries)
2000  *Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California: Grapevine THP.*
IC Report 5300

2002  *Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California: Peppermill THP.*
IC Report 4713
Resources:
P-52-001824
P-52-002038

West, G. James and Patrick Welch (Bureau of Reclamation)
2000  *Cultural Resource Inventory and Evaluation for the Battle Creek Salmon and Steelhead Restoration Project, Shasta and Tehama Counties,*
IC Report 8936
Numerous Resources

**Literature Search:** The official records and maps for archaeological sites and surveys in Tehama County were reviewed. Also reviewed: *National Register of Historic Places - Listed properties and Determined Eligible Properties* (2012); *California Register of Historical Resources* (2012); *California Points of Historical Interest* (2012); *California Inventory of Historic Resources* (1976); *California Historical Landmarks* (2012); *Directory of Properties in the Historic Property Data Files for Tehama County* (2011=2); *Handbook of North American Indians, Vol. 8, California* (1970); *Historic Spots in California* (2002).

**RECOMMENDATIONS:**
We recommend that you contact the appropriate local Native American representatives for information regarding traditional cultural properties that may be located within project boundaries for which we have no records.
The charge for this record search is $1,277.85 (8 hours of Information Center time at $150 per hour plus 519 copies at $0.15 per page). An invoice will follow from the CSUC Research Foundation for billing purposes. Thank you for your concern in preserving California's cultural heritage, and please feel free to contact us if you have any questions or need any further information or assistance.

Sincerely,

Amy Huberland, M.A.
Assistant Coordinator
August 20, 2013

Bill to: Ms. Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive #100
Rancho Cordova, CA 95670

Mail to: Holiday Inn Express
Jenna Farrell, guest
2810 Main Street
Red Bluff, CA 96080

I.C. File # D13-90
Priority Records Search

RE: Lassen Lodge HEP 106-4647 01.01 – Expanded Search Roads
T29N, R2E, Sections 4, 5, 11; T29N, R3E, Sections 7, 8, 16, 17, 18, 19, 20, 21
T30N, R1E, Sections 25, 36; T30N, R2E, Sections 28, 29, 30, 31, 32, 33, 34
USGS Gray’s Peak, Lyonsville, and Manton 7.5’ and
Lassen Peak and Manton 15’ quads
Approximately 3,500 acres, estimated from project map (Tehama County)

Dear Ms. Farrell,

In response to your request, a priority records search for the project cited above was
conducted by examining the official maps and records for archaeological sites and surveys
in Tehama County. In addition, NEIC base maps were briefly reviewed for new resources
located within the previous project area documented under IC File # D12-103.
RESULTS:

**Prehistoric Resources:** According to our records, one site of this type has been recorded within the new project area. The site, 52-002147, contains flaked stone scatter and freshwater clamshell remains. The resource location is plotted in red on the enclosed project map, and a copy of the record is attached. The project is located in a region utilized by Yana populations. Unrecorded prehistoric cultural resources may be located in the project area.

**Historic Resources:** According to our records, two historic sites have been recorded in the new project area. Additionally, one new historic site has been recorded in the previous project area (searched under IC File # D12-103). Site locations are plotted in red on the enclosed project map. Site descriptions are listed in Table 1, below, and copies of resource records are attached. Unrecorded historic cultural resources may be located in the project area.

**Table 1, Historic Sites within the Project Area**

<table>
<thead>
<tr>
<th>State Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>52-002450</td>
<td>Ponderosa Way refuse dump, 3 concentrations of debris, old railroad grade</td>
</tr>
<tr>
<td>52-002472</td>
<td>Long Ridge Mill – temporary sawmill established 1947 after the wild land fire known as “The Burn”</td>
</tr>
<tr>
<td>52-002474</td>
<td>Ponderosa Way</td>
</tr>
</tbody>
</table>

The USGS Gray’s Peak, Lyonsville, and Manton 7.5’ and Lassen Peak and Manton (1956) 15’ quad maps indicate that Ponderosa Way, Long Ridge, Sand Spring Canyon, The Burn, Panther Creek, Sugarpine Spring, Blue Ridge Road, structures, and roads are located in the project area and Digger Butte, Lassen National Forest, Bluff Springs, South Fork Battle Creek, Soap Creek, Digger Creek, Manton, Blue Ridge, Snoqualmie Gulch, Dry Gulch, Battle Creek Road and Gun Club, Hampton Butte, Highway 36, Grays Peak, Hazen Flat, Sugarpine Flat, roads, and structures are located in the project vicinity.

The General Land Office Maps for T30N, R1E and T30N, R2E are attached. Depicted on those maps within the project area are trails, ditches, V-Flume, and Powell’s Road. Also enclosed is a copy of the Lassen Peak 1:250,000 map (1894/1910) depicting a trail in the approximate location of the Main or Blue Ridge Road, as well as the Mineral 1:125,000 (1941/1948) map.
Ponderosa Way is a continuous firebreak that, when it was built, extended for 800 miles along the length of the Sierra Nevada Mountains and into the Cascades, ending north of Redding. It was intended to be a permanent defensive line between the lower foothill regions and the higher elevation National Forest lands. It was funded by the Emergency Conservation Work (ECW) program, which was established in April of 1933 and almost immediately became known as the CCC. The CCC operated in California from 1933 to 1942. According to the California Department of Fire and Forestry Protection, "All told, the CCC-WPA laborers constructed over 300 lookout towers and houses, some 9,000 miles of telephone lines, 1,161,921 miles of roads and trails and erected numerous fire stations and administrative buildings in California. The CCC had also planted over 30 million trees and had spent nearly one million "man days" in fire prevention and suppression activity. Because the CCC was expected to fight forest fires, they constituted the single largest wildland suppression force ever assembled in American history." The Ponderosa Way Firebreak was the largest CCC project in California and parts of it are still in use, primarily in the form of dirt access roads into rural areas of Northeastern California.

**Previous Archaeological Investigations:** According to our records, portions of the project area have been previously surveyed by professional archaeologists as well as Registered Professional Foresters. Study locations are plotted in green on the enclosed maps and copies of reports are enclosed. The studies are listed below.

DeBonis, Steve (Sierra Pacific Industries)  
**Report Not Yet Assigned State Number**  
Resources:  
52-002472

**Report Not Yet Assigned State Number**  
Resources:  
52-002450  
52-002451

du Chesne, Steve (Sierra Pacific Industries)  
1996  *Archaeological and Historical Resources Survey and Impact Assessment: Panther THP.*  
**IC Report 8406**

**IC Report 6280**

Resources:
- P-52-002147
- P-52-002148


**Report Not Yet Assigned State Number**

Resources:
- 52-002456
- 52-002457
- 52-002458
- 52-002459

Hamusek, Blossom (CSU Chico, Archaeological Research Program)

1989  *Archaeological Reconnaissance of Bluff Springs Vegetation Management Plan, Tehama County, California.*

**IC Report 9450**

Resources:
- CA-TEH-1358/H

Haas, David (Crane Mills)

2012  *Confidential Archaeological Letter for the Ponderosa Emergency Notice, Tehama County, California.*

**IC Report 11665**

Hensen, Roy L. (Crane Mills)

1995  *Archaeological and Historical Resources Survey and Impact Assessment for the Pritchard Timber Harvesting Plan, Tehama County, California.*

**IC Report 2547**

Jenkins, Richard (California Department of Forestry and Fire Protection)

2011  *An Archaeological Survey Report for the Forward Fuelbreak Project, Tehama County, California.*

**IC Report 11091**

Possehn, Dennis


**IC Report 11666**
RECOMMENDATIONS:

We recommend that you contact the appropriate local Native American representatives for information regarding traditional cultural properties that may be located within project boundaries for which we have no records.

The charge for this record search is $1,385.30 (6 hours of Priority Information Center time at $225 per hour plus 102 copies at $0.15 per page plus $20.00 Fed Ex overnight charge). An invoice will follow from the CSUC Research Foundation for billing purposes. Thank you for your concern in preserving California's cultural heritage, and please feel free to contact us if you have any questions or need any further information or assistance.

Sincerely,

Amy Huberland, M.A.
Assistant Coordinator
APPENDIX D

FERC LETTER DELEGATING SECTION 106 CONSULTATION TO RUGRAW
OFFICE OF ENERGY PROJECTS

Project No. 12496-000 – California
Lassen Lodge Project
Rugraw, Inc.

Mr. Jim Tompkins
16464 Plateau Circle
Redding, CA  96001

Mr. Charlie Kuffner
P.O. Box 421
Tiburon, CA  94920

Reference:  Designation of Non-Federal Representative for Section 106 of the National Historic Preservation Act, Section 7 of the Endangered Species Act, and Section 305(b) of the Magnuson-Stevens Fishery Conservation and Management Act

Dear Messrs. Tompkins and Kuffner:

In a letter filed on May 7, 2013, you requested that Rugraw, Inc. (Rugraw) be designated the Federal Energy Regulatory Commission’s (Commission) non-federal representative for section 106 of the National Historic Preservation Act (NHPA), section 7 of the Endangered Species Act (ESA), and section 305(b) of the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens FCMA). By this letter, we are designating Rugraw as the Commission’s non-federal representative for carrying out consultation pursuant to the NHPA, informal consultation pursuant to section 7 of the ESA, and essential fish habitat consultation pursuant to section 305(b) of the Magnuson-Stevens Act (FCMA). By copy of this letter, we are informing the State Historic Preservation Officer, U.S. Fish and Wildlife Service (FWS), and the National Marine Fisheries Service (NMFS) of our designation.

The role of the non-federal representative for section 106 of the NHPA includes:
(1) conducting the day-to-day section 106 consultation responsibilities, pursuant to 36 C.F.R. § 800.2(c)(4) of the NHPA; (2) conducting studies, if necessary, to identify properties eligible for, or listed on, the National Register of Historic Places (historic properties); (3) attending meetings; (4) identifying potential effects on historic properties, and determining reasonable alternatives to avoid, lessen, or mitigate for any adverse...
effects to historic properties; and (5) developing a draft Historic Properties Management Plan, if there are any adverse effects to historic properties.

The role of the non-federal representative for section 7 of the ESA and section 305(b) of the Magnuson-Stevens FCMA includes: (1) participating in informal consultation with FWS and NMFS; (2) conducting studies, if necessary; (3) attending meetings; and (4) developing a draft biological assessment or essential fish habitat assessment, if the project affects any federally listed threatened or endangered species and/or their designated critical habitat or essential fish habitat. We recommend that Rugraw set up a meeting with FWS and NMFS to discuss how consultation will be conducted.

If you have any questions, please contact Kenneth Hogan at (202) 502-8434 or Kenneth.Hogan@ferc.gov.

Sincerely,

Timothy J. Welch, Chief
West Branch
Division of Hydropower Licensing

cc: Mailing List
Public Files

Naseem Alston
National Marine Fisheries Service
Protected Resources Division
650 Capitol Mall 5-100
Sacramento, CA  95614

Deborah Giglio
U.S. Fish & Wildlife Service
2800 Cottage Way, W-2605
Sacramento, CA   95825

Carol Roland-Nawi
State Historic Preservation Officer
California Dept. of Parks and Recreation
P.O. Box 942896
Sacramento, CA 94296
APPENDIX E

NATIVE AMERICAN AND STAKEHOLDER CONSULTATION LETTERS
Dear NAHC:

Please conduct a sacred lands file search for the proposed Lassen Lodge Hydropower Project (FERC Project No. P-12496) and associated 12 mile transmission line, near the town of Mineral, Tehama County, CA.

- USGS 7.5' Shingletown, Manton, Grays Peak, Finely Butte, and Lyonsville Topographical map 1:24k (see attached maps).

Please include a list of local Native American Groups or Individuals that may have an interest in the project. Please respond by email or to the contact information below. Please let me know if you require any additional Project information.

Thank you,

Jenna Farrell
January 22, 2013

Jenna Farrell, Archaeologist
TETRA TECH, INC
2969 Prospect Park Drive., Ste 100
Rancho Cordova, CA 95670

Sent by Fax 916-852-0307

Number of Pages 2

RE: FERC Project No.P-12496, Lassen Lodge Hydropower Project, Tehama County

Dear Ms. Farrell:

A search of the Native American Heritage Commission (NAHC) Sacred Lands File was completed for the area of potential project effect (APE) referenced above. Please note that the absence of specific site information in the Sacred Lands File does not indicate the absence of Native American traditional cultural places or cultural landscapes in any APE. While in this case, a search of the NAHC Sacred Lands File did not indicate the presence of any sites within the APE you provided, a Native American tribe or individual may be the only source for the presence of traditional cultural places. For that reason, enclosed is a list of Native American individuals/organizations who may have knowledge of traditional cultural places in your project area. This list should provide a starting place in locating any areas of potential adverse impact.

The NAHC makes no recommendation or preference of any single individual, or group over another. All of those on the list should be contacted, 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 NAHC 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 my email address: rw_nahc@pacbell.net

Sincerely,

[Signature]

Rob Wood
Associate Government Program Analyst
Native American Contact List
Tehama County
January 22, 2013

Greenville Rancheria of Maidu Indians
Kyle Self, Chairperson
PO Box 279
Greenville, CA 95947
kself@greenvilledrancheria.com
(530) 284-7990
(530) 284-6612 - Fax

Enterprise Rancheria of Maidu Indians
Art Angle, Vice Chairperson
2133 Monta Vista Avenue
Oroville, CA 95966
eranch@cncnet.com
(530) 532-9214
(530) 532-1768 FAX

Maidu Nation
Ciara LeCompte
P.O Box 204
Susanville, CA 96130

Enterprise Rancheria of Maidu Indians
Glenda Nelson, Chairperson
2133 Monta Vista Ave
Oroville, CA 95966
info@enterpriserancheria.com
(530) 532-9214
(530) 532-1768 FAX

Redding Rancheria
Tracy Edwards, Chief Executive Officer
2000 Redding Rancheria Road
Redding, CA 96001
traceye@redding-rancheria. Pit River
(530) 225-8979
Fax: (530) 241-1879

Redding Rancheria Cultural Resources
James Hayward Sr., Cultural Resources Program
2000 Redding Rancheria Road
Redding, CA 96001
jamesh@redding-rancheria.com
530-242-4543
530-410-2873 - cell
Fax: (530) 241-1879

Beverly Ogle
29855 Plum Creek Road
Paynes Creek, CA 96075
Maidu
Pit River - Atsugewi
(530) 597-2070

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

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.96 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Lassen Lodge Hydropower Project (FERC Project No, P-12496), Shigletown, Manton, Grays Peak, Finely Butte, and Lyonsville USGS Quadrangles, Tehama County.
# Contacts

<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
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<th>Phone</th>
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<tbody>
<tr>
<td>Lacie Miles, EPA Director</td>
<td><a href="mailto:kself@greenvillera.com">kself@greenvillera.com</a></td>
<td>PO Box 279 Greenville, CA 95947</td>
<td>530-284-7990</td>
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<tr>
<td>Greenville Rancheria of Maidu Indians</td>
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<td>Art Angle, Vice Chairperson</td>
<td><a href="mailto:arthur.angle@yahoo.com">arthur.angle@yahoo.com</a></td>
<td>2133 Monta Vista Avenue Oroville, CA 95966</td>
<td>530-532-9214</td>
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<tr>
<td>Clara LeCompte Maidu Nation</td>
<td>Clara LeCompte</td>
<td>PO Box 204 Susanville, CA 96130</td>
<td>no phone number</td>
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<td>Glenda Nelson, Chairperson</td>
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<td>James Hayward Sr., Cultural</td>
<td><a href="mailto:jamesh@redding-rancheria.com">jamesh@redding-rancheria.com</a></td>
<td>2000 Redding Rancheria Road Redding, CA 96001</td>
<td>530-242-4543</td>
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<td>Resources Program</td>
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<td>Jason Hart, Chairperson</td>
<td><a href="mailto:jasonh@redding-rancheria.com">jasonh@redding-rancheria.com</a></td>
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<tr>
<td>Beverly Ogle</td>
<td></td>
<td>29855 Plum Creek Road Paynes Creek, CA 96075</td>
<td>530-597-2070</td>
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<td>Responses</td>
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April 30, 2013

NAME/Affiliation
Address
Address

Subject: LASSEN LODGE HYDROELECTRIC PROJECT, TEHAMA COUNTY, CALIFORNIA (FERC Project No. 12496)—REQUEST FOR CULTURAL RESOURCE INFORMATION

Dear Mr/Mrs. XXXXX:

Tetra Tech is assisting Rugraw Inc. with environmental studies for their final License Application for submittal to Federal Energy Regulatory Commission (FERC) and agencies/stakeholders for the Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The Project is located along the Upper South Fork of Battle Creek, near the town of Mineral, unincorporated Tehama County, California. The northern portion of the Project is located near Manton, California. See Attachment A for Project Location and Area. The proposed Lassen Lodge Project facilities include a 2-mile pipeline (36 inch diameter), a powerhouse, penstock, a small diversion dam, and 11-miles of new 60 kV transmission line. The proposed project will have an installed capacity of 5 megawatts or less.

On December 11, 2012 a literature and records search was conducted of the cultural resource site and project file collection at the Northeast Information Center of the California Historical Resources Information System, at the California State University, Chico, California. A Cultural Resource pedestrian field survey of the Project is scheduled for the spring of 2013.

During the earlier phases of Project licensing, the applicant’s previous consultant contacted the Native American Heritage Commission (NAHC) on October 31, 2007. The NAHC did not identify any sacred lands within the project vicinity. They also provided the following Native American contacts:
- Tracy Edwards, Redding Rancheria
- Barbara Murphy, Redding Rancheria
- James Hayward, Redding Rancheria
- Kelli Hayward, Wintu Tribe of Northern California

Letters describing the Project and requesting additional information regarding Native American cultural sites within the area and/or Project concerns went out to each contact on November 8, 2007, followed by a phone call on November 23, 2007. No comments were received at that time.

Since it has been over five years since the NAHC and Tribes were first contacted regarding the Project, the NAHC was contacted by Tetra Tech in an e-mail on December 17, 2012 to request an updated sacred lands file search. The NAHC responded on January 22, 2013 that no Native American resources were identified within the project area. The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As
part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential.

Please reference “Lassen Lodge Hydroelectric Project” in your correspondence, and send any comments or questions to my attention at Tetra Tech, Inc., 2969 Prospect Park Dr. #100, Rancho Cordova, CA 95670, or call 916-853-4575, or email me at jenna.farrell@tetratech.com.

Sincerely,

Jenna Farrell
Cultural Resources, Tetra Tech

Cc: Jim Tompkins, Rugraw Inc. Vice President/Project Manager, Virginia Howell, Tetra Tech Project Manager

Attachment A: Map
Project Features:
- Diversion
- Powerhouse/Substation
- Tap
- Utility Tap

Reference Features:
- Penstock/Pipeline
- Transmission Line
- Line to Utility Tap
- Project 1-mile Buffer

USGS 24k Quads:
- Marton, Grays Peak, Finley Butte, Lyonsville

Reference:
- Township/Range/Sections:
  - T29N R1E S1-4, 10-13
  - T29N R2E S4-9, 16-18

Lassen Lodge Hydroelectric Project
Tehama County, CA
Sheet 2 of 4
Dear Art Angle:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.*
Dear Tracy Edwards:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.
Dear Jason Hart:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.*
Dear James Hayward Sr.:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.*
Dear Ms. Glenda Nelson:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.*
Dear Kyle Self:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell
Hello Jenna,

Thank you for contacting the Redding Rancheria Tribe regarding the Hydro Electric Project within the South Fork Battle Creek area near Mineral Ca. The Redding Rancheria Cultural Dept. has a very robust program that would definitely like to make a very informed and educated decision on the impact of the project without harming what I can see as within Yana ancestral territories. With that being said, I would like to follow up on our conversation by phone on May 1st, by asking for the archaeological report within ½ mile radius of the A.P.E. Also if you have any detailed maps of the project itself, excavation areas, depth of pipelines and an environmental report on the salmon runs and any mitigating factors that impact this run as the Coleman Fish Hatchery is dependent upon Battle Creek to replenish their stock....Chella. Thank you and yours in friendship...

James Hayward Sr.  Redding Rancheria Cultural Resource \ 530.242.4543 office and cell# 530.410.2875

---

Dear Tracy:

Please find attached a letter regarding the Proposed Lassen Lodge Hydroelectric Project (FERC Project No. 12496). The NAHC listed you as someone who may have knowledge of cultural resources in the Project area. As part of our data collection/research efforts, we are contacting you to request a historic or cultural resource review of the Project area. Please notify me if there are any locations within the Project area about which your tribe may have concerns regarding Cultural Resources (e.g. trails, archaeological resources, traditional areas, etc.). In addition, please feel free to contact me if you have any other concerns, comments, questions, or would like more information regarding the proposed Lassen Lodge Hydroelectric Project. Please know that any sensitive information will be kept confidential. This inquiry is for information purposes only and is not considered government to government consultation under Section 106 Review Process.

Sincerely,

Jenna Farrell

*A hard copy letter was also sent by mail.

Jenna Farrell | Cultural Resources
Direct: 916.853.4575 | Main: 916.852.8300 | Fax: 916.852.0307 | Cell: 916.206.8705
Tetra Tech, Inc. |
Hi Jenna, sorry about my tardiness as the Rancheria takes its responsibility to protect our sites within our ancestral territory as a solemn duty to our relatives that flourished here in Lassen and certainly help the agencies from any harm being done to their final resting place. Unfortunately I was in the hospital for a week as I had an accident on my ATV and ended up breaking 5 ribs as well as a fractured hip ball joint and a collapsed lung. I will most likely be off for 6 weeks or so on medical leave. I do check my e-mail via I-pad and will answer if it is most important and would appreciate any updates and if inadvertent discovery happens let me know right away so we can mitigate any unforeseen problems. Thank you Jenna, Yours in friendship...James Hayward Sr.

Sent from my iPad

On Aug 2, 2013, at 4:22 PM, "Farrell, Jenna" <Jenna.Farrell@tetratech.com> wrote:

Hi Mr. Hayard Sr.,

I am following up regarding the Lassen Lodge Project and the letter to SHPO I copied you. We are getting ready to go out and conduct our surveys next week. Please let me know if you have any additional comments or areas of concern. Please feel free to call or email me.

Best Regards,

Jenna

Jenna Farrell | Archaeologist
Direct: 916.853.4575 | Main: 916.852.8300 | Fax: 916.852.0307 | Cell: 916.206.8705
Tetra Tech, Inc. | 2969 Prospect Park Drive, Suite 100 | Rancho Cordova, CA 95670 | www.tetratech.com
## Contacts

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</table>
August 30, 2013

NAME/Affiliation
Address
Address

Subject: Lassen Lodge Hydroelectric Project, Tehama County, CA (FERC Project No. 12496)—–cc Revised Request for SHPO Concurrence of the Project Area of Potential Effect and Work Plan

Dear Mr/Mrs. XXXXX:

Tetra Tech is doing the environmental consulting work on behalf of Rugraw for the Lassen Lodge Hydroelectric Project, Tehama County-FERC Project No. 12496, CA, a Renewable Green Energy project in the upper reaches of the South Fork of Battle Creek just West of Mineral, CA.

Please find attached the Revised Request for SHPO concurrence of the Lassen Lodge Project Area of Potential Effect and Work Plan letter sent out to SHPO on August 29, 2013.

If you have any comments on this proposed project plan that you would like to be considered in the project federal, state, and county licensing and permitting process, please reference “Lassen Lodge Hydroelectric Project -FERC Project No. 12496" in your correspondence, and send any comments or questions by September 30, 2013 to my attention at Tetra Tech, Inc., 2969 Prospect Park Dr. #100, Rancho Cordova, CA 95670, or call 916-853-4575, or email me at jenna.farrell@tetratech.com.

Thanks in advance for your interest in the Lassen Lodge Hydroelectric Renewable Green Energy Project.

Sincerely,

Jenna Farrell
Cultural Resources, Tetra Tech

Cc: Jim Tompkins, Rugraw Inc. Vice President/Project Manager
Virginia Howell, Tetra Tech Project Manager
Frank Winchell, Ph.D., Federal Energy Regulatory Commission Cultural Resource Specialist
Tribal list

Enc. Revised Request for SHPO Concurrence of the Project APE and Work Plan
INTEROFFICE CORRESPONDENCE

TO:        Virginia Howell and Lynn Compas
FROM:      Jenna Farrell
DATE:      October 22, 2013

SUBJECT:   LLHEP Consultation and Project Field Visit with Beverly Ogle

On October 22, 2013, Ms. Beverly Ogle and Ms. Jenna Farrell (Tetra Tech) conducted a field visit of the southern eastern portion of the Lassen Lodge Hydroelectric Project (LLHEP) Area of Potential Effect (APE) along the South Fork Battle Creek. Prehistoric sites CA-TEH-595 and LLHEP-SK-01 and areas of the APE accessible by road were visited. Ms. Ogle was not aware of any ethnographic sites within this area of the APE but noted that Native Americans accessed areas all along South Fork Battle Creek for resources. Ms. Ogle requested a Native American and Archaeological Monitoring be present during construction near sites CA-TEH-595 and LLHEP-SK-01. She also noted that historic sites CA-TEH-1835 (Last Chance Ditch) and CA-TEH-2114 (remains of saw mill) should be preserved.

Due to time constraints, the northwestern portion of the APE (near Manton) was not visited. Ms. Ogle knew of Indian Allotments near the Manton area, after reviewing Project maps she noted they were southwest of the Project area. She requested a Native American and Archaeological Monitoring be present during construction activities at sites CA-TEH-1358, CA-TEH-1490, and LLHEP-JF-01.

Ms. Ogle would like conduct another field visit of the APE near Manton. Tetra Tech will schedule another field visit at a later date, prior to submitting the Cultural Resource Monitoring Plan (CRMP) and Historic Properties Management Plan (HPMP). Ms. Ogle also requested that she and James Hayward Sr. be notified of any finds during Project construction and/or operation.
INTEROFFICE CORRESPONDENCE

TO: Virginia Howell and Lynn Compas
FROM: Jenna Farrell
DATE: December 02, 2013

SUBJECT: LLHEP Consultation and Project Field Visit with Beverly Ogle

On December 02, 2013, Ms. Beverly Ogle and Ms. Jenna Farrell conducted a second field visit of the northwestern portion of the APE (near Manton, California), along the access roads and transmission line corridor. Prehistoric sites CA-TEH-1358/H, CA-THE-1490, and LLHEP-JF-01 and areas of the APE accessible by road (e.g. Powerhouse Road, Manton School Road, Hazen Road, and Ponderosa Way) were visited. Ms. Ogle noted that this area is highly sensitive for prehistoric resources and noted there were once village sites near the Manton area. Specifically, people camped along areas with level terrain near the creeks and along the ridge tops and hunted and gathered several resources within the area. Ms. Ogle and Ms. Farrell visited the following sites within the APE:

CA-TEH-1358/H—this multicomponent site is bisected by the APE (existing access road). Ms. Ogle commented that the area is culturally sensitive and the site contains two burials and was a place of worship. She also noted a house pit was located in the northwestern portion of the site. Ms. Ogle identified several plants present within the site area that were used by Native people; deer grass, wild ginger, ferns, mullet, soap root, yerba sencia, oaks, manzanita, maple, and possibly worm wood. She also noted that peppermint grew in the spring time. Ms. Ogle requested that a Native American and Archaeological Monitor be present during any construction within and near CA-TEH-1358/H and that no vehicles or equipment be parked within or near this site. She noted that the site needs more protection and requested that the existing road/parking area that leads to the site area be permanently blocked off from vehicles. The road/parking area is within PG&E property and is not considered part of this Project (only the main road will be used for Project access). No vehicles or equipment will use the parking area for Project-related activities.

CA-TEH-1490 (tested in 1987)—this prehistoric site is within the Access Road APE. Ms. Ogle noted that this ridge is highly sensitive for cultural resources. Ms. Ogle requested that a Native American and Archaeological Monitor be present during any construction activities within the APE near CA-TEH-1490 and that no vehicles or equipment be park within or near this site. She also requested any construction or
clearing of the transmission line APE along this ridge be monitored. If prehistoric artifacts are identified during construction, Ms. Ogle requests artifacts be recorded but not be collected. If the artifact(s) will be impacted by construction she request the artifact(s) be moved to a safe location within the site area.

LLHEP-JF-01 (newly recorded)—this prehistoric site is within the transmission line APE and will be avoided by construction. Ms. Ogle noted that this ridge is highly sensitive for prehistoric and potentially historic cultural resources. She remembers a family by the name Gibbon living within the flat area/table top of this ridge. She remembers a cabin, corral, and larger barn in the area south/southwest of the APE. When she was a young girl her father would take her up to visit the family and ride horses. Today, no historic structures remain in the area. The area is currently used for a Gun and Rod club and cattle grazing. Due to the cultural sensitivity of the area, Ms. Ogle requests a Native American and Archaeological Monitoring be present during any ground disturbing construction (e.g. clearing of APE, pole installation) within the APE along this ridge (including near site LLHEP-JF-01). She also request that no vehicles or equipment park within or near site LLHEP-JF-01. If prehistoric artifacts are identified during construction, Ms. Ogle requests the artifacts be recorded but not be collected. If the artifact(s) will be impacted by construction she request that the artifact be moved to a safe location within the site area.

Ms. Ogle also stated that she knew of an Indian Allotment owned by Bob Junior at Manton near Hazen Road. She said his family [Junior family] would have lived in traditional Indian ways. She provided Ms. Farrell with historic documents (land transfer document, newspaper clippings) regarding an Indian Allotment owned by Native American Bob [Robert] Junior and family south of Hazen Road.

Once back at the office, Ms. Farrell reviewed federal online land patents and historic newspaper clippings regarding Bob Junior and family. In 1908, the Red Bluff Daily News reported the killing of Bob Junior by two Fish & Game wardens at the Battle Creek Dam. Bob Junior was described as about seventy years old and a local resident residing south of Manton near “Hazen’s place” for about 18 to 20 years. Bob Junior was shot and killed by game wardens M. A. Carpenter and D. M. Bond for resisting arrest for illegal fishing along the power company dam at the western reach of South Battle Creek (Red Bluff Daily News 1908 and 1909). The game wardens were later arrested, charged for murder, tried, and found guilty of murdering Bob Junior (Red Bluff Daily News 1908, San Francisco Call 1908a and 1908b).

The 1921 Petition for Sale of Inherited Indian Land identifies Junior’s Indian Allotment property within T29N, R1E, Section 4. Review of the BLM federal online land patents lists several Indian Allotment entries in 1887 for the Junior family within T29N, R1E, Section 4. Robert “Bob” Junior, Anne Junior, Gould Junior, Ida Junior, Lacy Junior, and Masten Junior all held Indian Allotments comprised of lands within entire Section 4. The land patent details identify the Junior family’s tribal affiliation as “Big Meadow.” In 1918, portions of the Junior Indian Allotments were deeded to the Northern California Power Company. By 1922, the Junior family heirs sold the remaining Indian Allotments to F. P. Childs (in 1921) and E.L. Fulbright (1922). The Junior property is located one half mile from the APE.
Ms. Farrell provided Ms. Ogle with the results of her research of the Indian Allotment property for her records; a map depicting the Indian Allotment, patent information, and additional historic newspaper articles.

Ms. Ogle also noted the correct spelling of William Glines, who once owned property and logged along South Fork Battle Creek (near the southeastern portion of the Project).
April 22, 2013

Matthew P Kelley
Chief, Redding Regulatory Office
US Army Corps of Engineers, Sacramento District
310 Hemsted Drive, Suite 310
Redding, California 96002

Subject: Resumption of Agency Consultation
Lassen Lodge Hydroelectric Project
FERC Project No. 12496
South Fork Battle Creek
Tehama County, CA

On May 25, 2012, Rugraw Inc. (Applicant) submitted a Draft Exemption Application (Application) for the proposed project to the Federal Energy Regulatory Commission (FERC) and stakeholders. Comments on the Application were received from FERC, California Department of Fish & Game (CDF&G), California State Water Resources Control Board (SWRCB), and National Marine Fisheries Service (NMFS).

In a letter dated August 8, 2012 the FERC stated, “the draft application submitted to Commission staff and stakeholders on May 25, 2012, does not qualify for an exemption from licensing. As such, when you file your final application, you must apply for a major water power project 5 MW or less, pursuant to section 4.60 of the Commission’s regulations.”

In the fall of 2012, Rugraw retained the services of a consulting firm (Tetra Tech) to assist with reconfiguring the Application into a Final License Application as noted by the FERC requirements above. The last several months have been spent reviewing project data, comments on the Application submitted May 25, 2012, and preparing to resume consultation. We are now beginning the 3rd stage of consultation as defined in FERC’s licensing handbook for the traditional licensing process. FERC has confirmed that the Draft Exemption Application and agency comments have satisfied FERC requirements for 2nd stage consultation. There have been a number of documents associated with this project over the last 20 years and based on the available data, the stage of consultation, and the remaining comments, it is our intent to expedite the License Application process as much as possible over the coming year.

This letter is to notify you that Rugraw is prepared to resume the consultation process, address comments on the exemption Application, and complete a Final License Application for submittal to the FERC and agencies/stakeholders. Over the next month, representatives from Tetra Tech will be contacting you to arrange meetings and/or phone calls to conduct the remaining consultation activities that will lead to completion of the Final Application.
If you have any questions or need further information, please call Jim Tompkins of Rugraw at 530-246-0103 or Phil Leapley, Consultation Coordinator from Tetra Tech at 916-853-4505.

Sincerely,

Jim Tompkins
Vice President - Senior Project Manager
Rugraw, Incorporated

cc: service list
# LASSEN LODGE PROJECT – SERVICE LIST

## FEDERAL AND STATE AGENCIES

**Federal Energy Regulatory Commission (FERC)**
- **Kenneth Hogan**
  - Fishery Biologist
  - Federal Energy Regulatory Commission
  - 888 First Street, N.E.
  - Washington, D.C. 20426
  - E-mail: kenhogan@ferc.gov
  - Phone: (202) 502-8434

**CALLIFORNIA DEPARTMENT OF FISH AND GAME (CDF&G)**
- **Annie Manji**
  - Statewide FERC Coordinator
  - California Department of Fish and Game
  - 601 Locust Street
  - Redding, CA 96001
  - E-mail: amanji@dfg.ca.gov
  - Phone: (530) 225-2315

- **Mike Berry**
  - Senior Fishery Biologist
  - California Department of Fish and Game
  - 601 Locust Street
  - Redding, CA 96001
  - E-mail: mberry@dfg.ca.gov
  - Phone: (530) 225-2131

- **Matt Myers**
  - FERC Coordinator
  - California Department of Fish and Game
  - 601 Locust Street
  - Redding, CA 96001
  - E-mail: mmyers@dfg.ca.gov
  - Phone: (530) 225-3846

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)**

**NOAA FISHERIES**
- **William Foster**
  - Fishery Biologist
  - NOAA Fisheries, Southwest Region
  - 650 Capital Mall, Suite 8-300
  - Sacramento, CA 95814-4708
  - E-mail: william.foster@noaa.gov
  - Phone: (916) 930-3617
Richard Wantuck  
Supervisory Hydraulic Engineer  
NOAA Fisheries  
777 Sonoma Ave., Room 325  
Santa Rosa, CA  95404  
E-mail: richard.wantuck@noaa.gov  
Phone: (707) 575-6063

Steve Edmondson  
Fishery Management Specialist  
NOAA fisheries  
777 Sonoma Ave., Room 325  
Santa Rosa, CA  95404  
E-mail: steve.edmondson@noaa.gov  
Phone: (707) 575-6052

Kathryn L. Kempton  
Attorney-Advisor  
NOAA Office of General Counsel  
501 W. Ocean Blvd., Suite 4470  
Long Beach, CA   90802  
E-mail: kathryn.kempton@noaa.gov  
Phone: (562) 980-4091

**U.S. FISH AND WILDLIFE SERVICE**

Deborah Giglio  
U.S. Fish & Wildlife Service  
2800 Cottage Way, W-2605  
Sacramento, CA   95825  
E-mail: debora_giglio@fws.gov  
Phone: (916) 414-6559

Amy Fesnock  
U.S. Fish & Wildlife Service  
2800 cottage Way  
Sacramento, CA   95825  
E-mail: amy_fesnock@fws.gov  
Phone: (916) 414-6678

**U.S. ARMY CORPS OF ENGINEERS**

LTC Torrey A. DiCiro  
Commander  
U.S. Army Corps of Engineers  
San Francisco District Office  
1455 Market Street  
San Francisco, CA   94103-1399  
E-mail: torrey.diciro@usace.army.mil  
Phone: (415) 503-6700
CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)

Mark Cowin
Director
California Department of Water Resources
1416 – 9th Street, Room 1115-1
Sacramento, CA 95814
E-mail: friend@water.ca.gov
Phone: (916) 653-7007

CALIFORNIA PUBLIC UTILITIES COMMISSION (CPUC)

Edward Randolph
Director, Energy Division
California Public Utilities Commission
505 Van Ness Avenue, Room 4004
San Francisco, CA 94102
Phone: (415) 703-2083

STATE WATER RESOURCES CONTROL BOARD (SWRCB)

Thomas Howard
Director
State Water Resources Control Board
1001 I Street
Sacramento, CA 95814
Phone: (916) 341-5615

Regional Water Quality Control Board
Redding Branch Office
415 Knollcrest Drive
Redding, CA 96002
Phone: (530) 224-4845

U.S. DEPARTMENT OF AGRICULTURE - FOREST SERVICE

Harv Forsgren
Regional Forester
Intermountain Region 4
324 25th Street
Ogden, UT 84401
E-mail: hforsgren@fs.fed.us
Phone: (801) 625-5605

Randy Moore
Regional Forester
Pacific Southwest Region 5
1323 Club Drive
Vallejo, CA 94592
E-mail: rmoore@fs.fed.us
Phone: (707) 562-9000
**U.S. DEPARTMENT OF COMMERCE**

John Bryson  
Secretary  
1401 Constitution Avenue NW  
Washington, DC   20230  
E-mail: thesec@doc.gov  
Phone: (202) 482-2000

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**U.S. GEOLOGICAL SURVEY (USGS)**

Anne Kinsiger  
Western Regional Director  
U.S. Geological Survey  
2130 southwest 5th Avenue  
Portland, OR   97201  
E-mail: akinsiger@usgs.gov  
Phone: (503) 251-3203

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**U.S. BUREAU OF LAND MANAGEMENT (BLM)**

James G. Kenna, State Director  
Bureau of Land Management  
2800 Cottage Way, Suite #W-1623  
Sacramento, CA  95825  
E-mail: jkenna@blm.gov  
Phone: (916) 978-4600

Lenore R. Thomas  
BLM CA State Office  
2800 Cottage Way, #W-1834  
Sacramento, CA   95825-1886  
E-mail: lenore_thomas@ca.blm.gov  
Phone: (916) 978-4655

Bob Abbey, Director  
Bureau of Land Management  
1849 C Street NW, Rm. 5665  
Washington, DC  20240  
E-mail: director@blm.gov  
Phone: (202) 208-3801

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**U.S. BUREAU OF RECLAMATION (USBR)**

Donald R. Glaser, Regional Director  
Mid-Pacific Region  
Federal Office Building  
2800 Cottage Way, MP-100  
Sacramento, CA   95825-1898  
Phone: (916) 978-5100
| **U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA)** | Jared Blumenfeld  
Administrator  
U.S. Environmental Protection Agency  
Region 9: Pacific Southwest  
75 Hawthorne Street  
San Francisco, CA  94105  
E-mail: blumenfeld.jared@epa.gov  
Phone: (415) 947-8702 |
|---|---|
| **U.S. DEPARTMENT OF THE INTERIOR** | Patricia S. Port  
Regional Environmental Officer  
U.S. Department of the Interior  
Office of Environmental Policy and Compliance  
San Francisco Region  
333 Bush Street, Suite 515  
San Francisco, CA  94104  
E-mail: patricia_port@ios.doi.gov  
Phone: (415) 296-3350 |
| **GOVERNOR OF THE STATE OF CALIFORNIA** | Governor Jerry Brown  
RE: FERC Projects  
c/o State Capital, Suite 1173  
Sacramento, CA  95814  
Phone: (916) 445-2841 |
| **CALIFORNIA OFFICE OF THE ATTORNEY GENERAL** | Attorney General  
California Office of the Attorney General  
1300 I Street, Suite 1740  
Sacramento, CA  95814 |
| **ADVISORY COUNCIL ON HISTORIC PRESERVATION** | Advisory Council on Historic Preservation  
1100 Pennsylvania Avenue, NW, Suite 803  
Old Post Office Building  
Washington, DC  20004  
E-mail: achp@achp.gov  
Phone: (202) 606-8503 |
| **CALIFORNIA OFFICE OF HISTORIC PRESERVATION (SHPO)** | Milford Wayne Donaldson  
State Historic Preservation Officer  
Department of Parks and Recreation  
1416 9th Street  
Sacramento, CA  95814  
E-mail: mwdonaldson@park.ca.gov  
Phone: (916) 445-7050 |
BUREAU OF INDIAN AFFAIRS (BIA)

Donald “Del” Laverdure
Acting Assistant Secretary
Bureau of Indian Affairs
1849 C Street NW
MS 2624 MIB
Washington, DC   20230
Phone: (202) 208-7163

Northern California Agency
Bureau of Indian Affairs
1900 Churn Creek Road, Suite 300
Redding, CA   96002-0292
Phone: (530) 246-5141

Amy Dutschke, Regional Director
Pacific Regional Office
Bureau of Indian Affairs
2800 Cottage Way
Sacramento, CA   95825
Phone: (916) 978-6000

LOCAL AGENCIES

TEHAMA COUNTY
Bill Goodwin
Chief Administrator
Tehama County Administration
727 Oak Street
Red Bluff, CA   96080
Phone: (530) 527-4655

PRIVATE ENTITIES

SIERRA PACIFIC INDUSTRIES, INC. (SPI)
Mike Mitzel
Lassen District Manager
Sierra Pacific Industries, Inc.
P.O. Box 496014
Redding, CA   96049-6014
E-mail: mmitzel@spi-ind.com
Phone: (530) 378-8130
PACIFIC GAS AND ELECTRIC COMPANY (PG&E)
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Pacific Gas and Electric Company
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E-mail: ejdd@pge.com

Annette Faraglia
Attorney at Law
Pacific Gas and Electric Company
77 Beale Street, Office 2479
San Francisco, CA  94105
E-mail: arf3@pge.com
Phone: (415) 973-7145

NATIVE AMERICAN TRIBES/ORGANIZATIONS

REDDING RANCERIA
Redding Rancheria
Chairman
2000 Redding Rancheria Road
Redding, CA  96001

CACHIL DEHE BAND OF WINTUN INDIANS
Danile Gomez
Chairman
Cahil Dehe Band of Wintun Indians
3730 State Highway 45 # B
Colusa, CA  95932
Phone: (530) 458-8231

PASKENTA BAND OF NOMLAKI INDIANS
Paskenta Band of Nomlaki Indians
1012 South Street
Orland, CA  95963-1671
Phone: (530) 865-2010

NON-GOVERNMENTAL ORGANIZATIONS (NGO)

THE NATURE CONSERVANCY
Jake Johnson
The Nature Conservancy
500 Main Street
Chico, CA  95928
E-mail:
Phone: (530) 897-6370, Ext. 215
THE NATURE CONSERVANCY (Cont’d)  
Rich Reiner  
The Nature Conservancy  
500 Main Street  
Chico, CA  95928  
E-mail: rreiner@tnc.org  
Phone: (530) 897-6370, Ext. 215

THE SIERRA CLUB  
Terry Davis, Director  
Mother Lode Chapter, Sierra Club  
801 K Street, Suite 2700  
Sacramento, CA  95814  
E-mail: terry.davis@sierraclub.org  
Phone: (916) 557-1100

FRIENDS OF THE RIVER  
Bob Center  
Executive Director  
Friends of the River  
1418 20th Street, Suite 100  
Sacramento, CA  95811  
E-mail: bcenter@friendsoftheriver.org  
Phone: (916) 442-3155, Ext. 212

AMERICAN WHITEWATER  
Dave Steindorf  
Stewardship Director  
American Whitewater  
4 Baroni Drive  
Chico, CA  95928  
E-mail: dave@americanwhitewater.org  
Phone: (530) 343-1871

SHASTA PADDLERS  
Kevin Lewis  
Shasta Paddlers  
6069 Hornbeck Land  
Anderson, CA  96007  
E-mail: klewis@snowcrest.net  
Phone: (530) 221-8722

CHICO PADDLERS  
Tracy McConachie  
President  
Chico Paddleheads  
P.O. Box 1881  
Chico, CA  95927  
Phone: (530) 321-2670
CALIFORNIA TROUT (CALTROUT)  
Curtis Knight  
Mount Shasta Regional Manager  
Cal Trout  
P.O. Box 650  
Mount Shasta, CA  96067  
E-Mail: cknight@caltrout.org  
Phone: (530) 926-3755

CALIFORNIA HYDROPOWER REFORM COALITION  
Keith Nakatani, Director  
California Hydropower Reform Coalition  
436 14th Street, Suite 801  
Oakland, CA  94612  
Phone: (510) 251-0164

TROUT UNLIMITED  
Brian J. Johnson, California Director  
Trout Unlimited  
2239 5th Street  
Berkeley, CA  94710  
Phone: (510) 528-4772
APPENDIX E-1
CONFIDENTIAL MEMO
APPENDIX F

MAPS OF SURVEYED AREA AND AREAS NOT SURVEYED DUE TO SLOPE OR DENSE VEGETATION
Ponderosa Way
Segment not surveyed due to impassable dense vegetation.

Road R-6
Road R-4
Road R-5
Road R-2
Road R-3
Road R-1

No access.

Appendix F
Surveyed Area and Areas Not Surveyed
Due to Slope or Dense Vegetation

Lassen Lodge
Hydroelectric Project
Tehama County, CA
Cultural Resources Surveyed Area

Access Roads: All Dirt Access Road
Areas Spot Checked: Surveyed at High Probability Areas (e.g. water sources, knolls) and at Approximately Every 300 to 400 feet.

Area Not Surveyed due to Slopes and/or Impassable (Extremely Dense Vegetation) or Property Owner Access Not Granted

Area 100% Pedestrian Survey (August 2013)
Area 100% Pedestrian Survey (January 6, 2014)
Area 100% Pedestrian Survey (January 13-14, 2014)

APE Status

Current APE
Old APE

Appendix F
Surveyed Area and Areas Not Surveyed
Due to Slope or Dense Vegetation

Lassen Lodge
Hydroelectric Project
Tehama County, CA
Appendix F
Surveyed Area and Areas Not Surveyed Due to Slope or Dense Vegetation
Lassen Lodge
Hydroelectric Project
Tehama County, CA

Cultural Resources Surveyed Area
Access Roads: All Dirt Access Road Areas Spot Checked: Surveyed at High Probability Areas (e.g. water sources, knolls) and at Approximately Every 300 to 400 feet.

Area Not Surveyed due to Slopes and/or Impassable (Extremely Dense Vegetation) or Property Owner Access Not Granted
Area 100% Pedestrian Survey (August 2013)
Area 100% Pedestrian Survey (January 6, 2014)
Area 100% Pedestrian Survey (January 13-14, 2014)

APE Status
Current APE
Old APE

Surveyed Area and Areas Not Surveyed Due to Slope or Dense Vegetation

总产值

Substation and Multipurpose Area
Multipurpose Area #2
Utility Tap
Penstock/Pipeline
Potential Tower Location
Not Surveyed - 30-40% Slope
Not Surveyed - 30-40% Slope
Not Surveyed - 20-30% Slope
Not Surveyed - 40-50% Slope
Not Surveyed - 30-40% Slope
Not Surveyed - 20-30% Slope
Appendix F
Surveyed Area and Areas Not Surveyed Due to Slope or Dense Vegetation

Lassen Lodge
Hydroelectric Project
Tehama County, CA

Cultural Resources Surveyed Area
Access Roads: All Dirt Access Road Areas Spot Checked: Surveyed at High Probability Areas (e.g. water sources, knolls) and at Approximately Every 300 to 400 feet.

Area Not Surveyed due to Slopes and/or Impassable (Extremely Dense Vegetation) or Property Owner Access Not Granted
Area 100% Pedestrian Survey (August 2013)
Area 100% Pedestrian Survey (January 6, 2014)
Area 100% Pedestrian Survey (January 13-14, 2014)

APE Status
Current APE
Old APE

0 0.25 0.5
0 0.25 0.5

Miles

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R:\projects_2012\Lassen_Lodge\maps\Archeo\Updated_APE_011614\AppF_Surveyed_Area_24k_mapbook.mxd
APPENDIX G

STAFF RESUMES
Kara Brunzell

Historian/Architectural Historian
Tetra Tech, Inc. – Oakland, CA

EDUCATION

UCLA, Bachelor of Arts in History
CSU Sacramento, Master of Arts in Public History

REGISTRATIONS/CERTIFICATIONS

Historian/Architectural Historian, California Historic Resource Information System

AREAS OF EXPERTISE

- Project Management
- Cultural Resource Management
- History/Architectural History
- Historic Preservation

QUALIFICATIONS

Ms. Brunzell has practiced in the fields of history/architectural history, cultural resource management, and historic preservation since 2007. Ms. Brunzell has served as a consulting historian on historical research investigations for federal, state, and local governments. She is experienced in the recordation, inventory, and evaluation of historic resources using the National Register of Historic Places and the California Register of Historic Resources guidelines. Her expertise includes preparing reports and making recommendations for federal, state, municipal, and private entities regarding Section 106 review and compliance. In addition to her Section 106 experience, she has worked extensively with the California Environmental Quality Act (CEQA).

Ms. Brunzell has written technical reports including historic survey reports, determinations of eligibility, findings of effect, and Historic Architectural and Engineering Record documentation. In addition to research, architectural recordation, and writing, Ms. Brunzell has experience in municipal preservation planning and non-profit historic preservation. Her non-profit experience includes coordination of technical services, content creation and implementation for preservation education, and management of a preservation advocacy program. Ms. Brunzell qualifies as a historian/architectural historian under the United States Secretary of the Interior’s Professional Qualification Standards (as defined in 36 CFR, Part 61)

PROFESSIONAL EXPERIENCE

Architectural Historian for Lawrence Berkeley National Laboratory Second Campus Project Environmental Assessment and Environmental Impact Report. Present. Tetra Tech is preparing an Environmental Assessment and Environmental Impact Report for LBNL’s proposed second campus in Richmond, California. Ms. Brunzell contributed to the preparation of a draft historic resources evaluation report that included the recordation and evaluation of twenty historic-period buildings within the project area for historic significance according to National Register of Historic Places and California Register of Historic Resources criteria.
Architectural Historian for Determination of Eligibility, Preparation of Inventory and Evaluation Forms, and Memorandums of Agreement for Loran-C System, US Coast Guard, Continental US. 2012 – Present. Ms. Brunzell is a historian for this project which assists the US Coast Guard in fulfilling its Section 106 responsibility as it discontinues use of the Loran-C System of navigation. For this project, Ms. Brunzell assisted with preparation of a Multiple Property Documentation Form and Evaluation Forms for the Loran-C system within the continental US.

Architectural Historian for Historic Buildings and Structures Inventory for Fort Hunter Liggett, Jolon, California. 2012 – Present. Ms. Brunzell participated in the preparation of an update to the existing Fort Hunter Liggett inventory of historic buildings. The project included the recordation and evaluation of twenty historic-period buildings located with the boundaries of Fort Hunter Liggett. None of the buildings were found eligible for the National Register of Historic Places of the California Register of Historic Resources.

Resource Author for Lawrence Berkeley National Laboratory Next Generation Light Source Environmental Impact Report and Environmentmetnal Impact Statement. 2012 – Present. Tetra Tech is preparing an Environmental Impact Report and Environmental Impact Statement for a proposed new laboratory at the Lawrence Berkeley National Laboratory (LBNL) campus. Ms. Brunzell authored the historical resources study section of the report. She evaluated four historic-period buildings within the project area for historic significance according to National Register of Historic Places and California Register of Historic Resources criteria.

Architectural Historian for Postal Historic Structure Report, CBRE. 2012. Ms. Brunzell contributed to the preparation of a Postal Historic Structure Report for nineteen California post offices. All nineteen historic-period post offices, seven of which had previously been listed on the National Register of Historic Places, are slated for closure by the United States Postal Service. Project deliverables included site visits, current condition assessments, and documentation of character-defining features. In addition, post offices which had not previously been listed on local, state, or national historic registers were for historic significance according to National Register of Historic Places and California Register of Historic Resources criteria.

ADDITIONAL WORK EXPERIENCE

Project Manager for Schulte Road Bridge Replacement Project Cultural Mitigation Measures, Monterey County, California. Ms. Brunzell acted as Project Manager and Principal Historian for Cultural Mitigations of the Schulte Road Bridge Replacement Project. Ms. Brunzell authored a HAER-type report on the bridge as a project deliverable. (BCR Consulting, 2012.)


Project Manager for Architectural/Historical Evaluation of Two Houses on the Napa Christian School Campus. Ms. Brunzell acted as Project Manager and Principal Historian on an Architectural/Historical evaluation of two historic-period dwellings in Napa. (Kara Brunzell, 2012.)
Project Manager for Architectural/Historical Evaluation, 367 E. Napa Street, Sonoma, California, Ms. Brunzell acted as Project Manager and Principal Historian on an Architectural/Historical evaluation of a historic-period dwelling in downtown Sonoma. (BCR Consulting, 2011.)

Project Manager for Historic Resources Reconnaissance Survey of Four Historic Commercial Properties in Unincorporated portions of Napa County, California. Ms. Brunzell acted as Project Manager and Principal Historian for a reconnaissance survey to identify potential historic commercial properties as part of a County of Napa effort to enact historic preservation legislation. (BCR Consulting, 2011.)

Principal Historian for Nomination of Main Street Bridge in Napa, California to local historic register. Ms. Brunzell performed research and authored a report for a project to list Napa’s Main Street Bridge as a local landmark. (Napa County Landmarks, 2011.)

Research Assistant for Environmental Impact Report, California High-Speed Train Project, Fresno to Bakersfield Section. Ms. Brunzell performed research as a member of the team that produced the EIR. (JRP Historical, 2010.)


Cultural Resources Assessment and Historic Architecture Evaluations of five Campuses within the Hayward Unified School District, Alameda County, California. (2009)

Research Assistant for Urban Levee Geotechnical Evaluation Project, Sacramento Deep Water Ship Channel Levee Research. Ms. Brunzell performed research on the Sacramento levees to provide historic engineering information to the engineering team. (JRP Historical, 2010.)

Research Assistant for Urban Levee Geotechnical Evaluation Project, South Sacramento Streams Levee Research. Ms. Brunzell performed research on the Sacramento levees to provide historic engineering information to the engineering team. (JRP Historical, 2010.)

Research Assistant for Urban Levee Geotechnical Evaluation Project, Sacramento UNP3 Levee Research. Ms. Brunzell performed research on the Sacramento levees to provide historic engineering information to the engineering team. (JRP Historical, 2010.)


Research Assistant for Architectural/Historical Evaluation of five Campuses within the Hayward Unified School District, Alameda County, California. Ms. Brunzell assisted with field work and other tasks on an Architectural/Historical evaluation of five campuses in Hayward. (BCR Consulting, 2009.)
**Research Assistant for Heritage Napa Historic Context Survey.** Ms. Brunzell assisted with field work and research in the preparation of a Historic Context for the City of Napa. (City of Napa, 2008.)

**PROFESSIONAL MEMBERSHIPS**

National Trust for Historic Preservation (2012-13)
California Preservation Foundation (2011-13)
Napa County Landmarks (2009-13)
Member, Napa County Historical Society (2007-13)

**EMPLOYMENT HISTORY**

March 2012 – Present  Historian/Architectural Historian, Tetra Tech, Inc. Oakland
December 2009 – Present  Project Manager/Architectural Historian, BCR Consulting
June 2010 – October 2011  Program Director, Napa County Landmarks
April 2010 – June 2010  Research Assistant II, JRP Historical
February 2008 – February 2010  Staff Liaison, Cultural Heritage Commission
October 2007 – February 2008  Graduate Student Intern, North Central Information Center
Julia Carvajal
Rancho Cucamonga, California. 91730
Mobile: 1-909-224-7420
Email: carvajal.julia@yahoo.com

EDUCATION

California State Polytechnic University, Pomona, June 2010
Bachelor of Science in Anthropology, emphasis in Cultural Resource Management
Spring 2010 Quarter Dean’s List Member
Overall GPA: 3.0

RESEARCH INTERESTS

Great Basin, hunter-gatherers, rock art

ARCHEOLOGICAL EXPERIENCE

Archaeologist Monitor
CRM Tech – Colton, CA August 2012
✓ Monitor Cajalco Solar Project.
✓ Maintain equipment and fill out daily paperwork.
✓ Work alongside Native Monitors, construction crew, and Western Municipal Water District staff.

Archaeologist Field and Lab technician
SWCA Environmental Consultants – Salt Lake City, Utah June- August 2012
✓ Bootstrap Haul Road Goldstrike
✓ Received MSHA certification, and CPR and First Aid Certification.
✓ Excavation, artifact collection, shovel scraping, survey.
✓ Responsible for filling out various paperwork in field and in lab, taking photography, and maintaining proper equipment at all time.

Archaeologist Field and Lab technician
✓ Worked on Phase III of the ACE- San Gabriel Trench project.
✓ Worked as a lab technician washing and brushing artifacts coming in from San Gabriel Mission excavations.
Identify and catalog artifacts into the database.
Properly label and store cataloged artifacts.

Archaeology Field Technician
- Phase II work on Owens Valley Lake for DWP.
- Relocate sites, resurvey, artifact identification, collection, and excavation.
- Complete excavation and collection paperwork and maintain equipment.

Archaeology Field Technician II
Epsilon Systems Inc.-Ridgecrest, California September- November 2011
- Survey in Bodie Hills California for BLM.
- Maintain field notes and equipment.
- Assist in completing archaeological site forms.
- Site recording and artifact identification.
- Experience with Trimble Junos and Arcpad.

Monitor/On call archaeology field technician
CRM Tech- Colton, California February-May 2011
- Monitor for an ongoing construction project.
- Completing necessary paperwork.
- Organizing collections for curation.

RESEARCH EXPERIENCE AND PRESENTATION

California State Polytechnic University, Pomona Archaeology Lab
- Analyzed petroglyphs from a site in the Mojave region called Steam Well in conjunction with a fellow student. The research consisted of categorizing themes, and comparing/contrasting to others in the area to help support various theories that may explain possible meaning. Research was presented in March 2010 at the Society for California Archaeology Annual Meeting in Riverside, CA entitled “Motif Analysis of Petroglyphs at Steam Well (CA-SBR-1008)” by Julia Carvajal and Servando Vega.

Field Class, California State Polytechnic University, Pomona
- Participated in three seasons of survey and test excavations at Sage Canyon in the Eastern Sierra/Western Mojave under the supervision of Dr. Mark Allen. Conducted research and volunteered in the laboratory as a member of this project,
as well as lead survey teams, and mapping teams. And primarily responsible for mapping the excavation areas, including elevations, during the third season.

- In 2011 and 2012 I assisted Dr. Mark Allen in conducting his field class in Big Bear and San Jacinto Mountains. Some of the duties I was responsible for included mentoring students on how to conduct surveys, and how to use compasses to take bearings and create site maps.

**Collections Management Volunteer**

*San Bernardino County Museum - Redlands, California, 2010 (August/September)*

- Under the supervision of Dee Schroth.
- Performed inventory inspection on artifacts.
- Input data into catalogs/computer programs.

**San Bernardino National Forest Field School - Big Bear, California, June -July, 2010**

- Directed by Bill Sapp and Daniel McCarthy through CSU, San Bernardino.
- Surveyed several miles over the course of three weeks.
- Excavated for one week.
- Learned to read topographic maps and how to use a compass.
- Filled out and updated site records, and drew sketch maps.
- Learned about laws and Section 106.
- Learned about local mining history and historical can and bottle identification.
- Experimental archaeology with flint knapping, basket weaving, and ethnobotany.

**Survey Volunteer**

*CCRPA– Huntington Beach, California, March 2010*

- Under the supervision of Pat Martz.
- Volunteered for the Bolsa Chica Land Trust Restoration Project.
- Surveyed 120 acres.
- Relocated the historic Bolsa Chica Gun Club and updated site records.

**MEMBERSHIPS IN CLUBS AND ORGANIZATIONS**

*Member*

- **American Anthropological Association**, 2008- Present
- **Society of American Archaeology**, 2008-Present
- **Society for California Archaeology**, 2008-Present
  - Presented at the Annual Meeting in March 2010 in Riverside, CA

**Student Volunteer**
Society for American Archaeology, 2010
  ❖ Volunteered at the Annual Meeting in April 2010 in St. Louis, MO

Student Member
Anthropological Society of Cal Poly Pomona, 2007-2010
  ❖ Participant in club fundraising events.
  ❖ Attended multiple professional conferences as a student member.

PERSONAL INTERESTS

Traveling, running

CERTIFICATES
  MSHA Certified- Surface Coal/Metal/Non Metal  (June 2012)
  First Aid/CPR Certification (June 2012)
REFERENCES

Mark Allen, PhD – Professor of Anthropology/Archaeology
California State Polytechnic University, Pomona
mwallen@csupomona.edu
909-869-3577

Holly Rendon – Project Coordinator
SWCA Environmental
hrendon@swca.com
(626) 240-0587 ext. 6601

Reese Cook - Field supervisor
Epsilon Systems Solutions Inc.
r.cook@epsilon systems.com
480-628-7661

Bill Sapp, PhD – Forest Archaeologist
San Bernardino National Forest
billsapp@fs.fed.us
909-382-3658
Experience Summary
Ms. Farrell has 14 years of experience in cultural resource management including prehistoric and historic archaeology, traditional cultural properties, and historic architecture and structures. Among this experience are three years in a supervisory capacity in support of regulatory compliance programs for energy, transportation, mineral and water resources development, commercial, public utility, and state and federal agency clients. She has conducted cultural resources management analyses, treatment plans, surveys, and monitoring associated electric transmission lines, and natural gas and water pipeline routes, and wind and solar projects.

Ms. Farrell has past experience in Cultural Resource Management with the USDA Forest Service, the Bureau of Land Management, and private-sector companies, and she is particularly knowledgeable about Forest Service and BLM permit requirements. She is permitted in California, Nevada, Oregon, and Idaho. She uses GIS and GPS field technologies to assist with the mapping and analyses of cultural resources and compiling inventories. She has conducted extensive literature reviews to assist with cultural/archaeological evaluations and inventories and has consulted with State Historic Preservation Offices.

Ms. Farrell has consultation experience with Native American tribes and the Native American Heritage Commission. Ms. Farrell is experienced with the California Environmental Quality Act (CEQA) process and with state and federal regulations (NEPA, NAGPRA, NHPA) pertaining to cultural resource management. She also has experience with CEQA/NEPA permitting and compliance with large scale energy projects (solar, wind, transmission lines).

Ms. Farrell has graduate archaeological experience abroad, as a field director assistant, in South America (Peru) assisting university students with archaeological field methods. She has conducted cultural resources management analyses on a number of proposed development projects throughout California, and in Nevada, Utah, Oregon, Idaho, Colorado, Washington, and Texas, including proposed and approved energy projects.

Education
BA, Anthropology/Archaeology (Minor: Native American Studies), Humboldt State University, 1997

Training
Riverside County Cultural Resource Sensitivity Training Course; Riverside County 2011
AEP CEQA Workshop - Understanding the California Environmental Process; CEQA; 2009
CEQA: An Introduction; CEQA; 2006
Consultation with Indian Tribes on Cultural Resources Issues; National Preservation Institute; 2003
Integrating Cultural Resources in NEPA Compliance; National Preservation Institute; 2001
Section 106: An Introduction; National Preservation Institute; 2006

Corporation Project Experience
Principal Investigator Archaeologist, January 2013 –April 2013
Trabuco Canyon Water District, Orange County, CA
To comply with CEQA and NEPA, Tetra Tech conducted cultural resources investigation in support of the Alternate Raw Water Transmission Line Project. Duties included costing and planning an archaeological studies, literature review, research design, and field survey, pedestrian field survey, recordation of a built environment resource, and report submittal.
Principal Investigator Archaeologist, January 2012 –August 2013 Ongoing
Adelanto Solar Project, San Bernardino County, CA
To comply with CEQA, Tetra Tech conducted cultural resources investigation in support of the Adelanto Solar Project. Duties included costing and planning an archaeological studies, literature review, research design, NAHC coordination, pedestrian field survey, recordation of 12 historic sites and 44 isolated finds, evaluation recommendation for 12 historic sites, and report submittal.

Field Director/Assistant Principal Investigator, December 2013-October 2013 Ongoing
Lassen Lodge Hydroelectric Project, Tehama County, CA
To comply with CEQA and NEPA, Tetra Tech conducted cultural resources investigation in support of the Lassen Lodge Hydroelectric Project. Duties included costing and planning an archaeological literature review, background research, and pedestrian field inventory, recordation of cultural resources (inc. prehistoric and historic archaeological sites, and structures) and coordinating with lead agencies, SHPO, and Tribe, and preparing Cultural Resources Inventory Report for submittal.

Archaeologist December 2012-Ongoing
Gateway West Transmission Line Project,
Archaeological Co-Author for a proposed 1,109 mile transmission line that spans across private, state, and federal land from Glenrock, Wyoming to the Hemingway, near Boise Idaho. Duties include, preparing draft Historic Property Treatment Plans, Inadvertent Discovery Plan, NAGRPA Plan, and Monitoring Plan in consultation with lead federal agencies.

Historic Trails Team/Field Director/Crew Chief Archaeologist, July 2011 –2013 Ongoing
Idaho Power Company: Boardman to Hemingway Transmission Line Project, ID and OR
The purpose of this study is to assist Idaho Power in complying with the requirements of NEPA for a 299 mile transmission line that spans from Boardman, Oregon to Hemingway, Idaho (eastern Oregon and western Idaho) within private, state, and federal land (USFS and BLM). Under the supervision of the archaeological PI and Architectural Historian PI, duties include, documenting assessments of the proposed Project’s direct and indirect effects on historic trails and indirect effects on above ground historic properties, field surveys, and crew leader for archaeological Class III field survey, co-author of Historic Properties and Trails study plan, trail documentation and visual assessments. Duties also include, assisting with Project presentations and meetings with agency and historical societies regarding study plan and methodology for historic trails study. This study will evaluate effects along the IPC proposed route and alternative routes identified by the BLM and USFS.

Principal Investigator Archaeologist, January 2012 – January 2013
Tonopah Solar Energy Project, Tonopah, Nevada
The purpose of this study is to assist Indeck Tonopah Solar, LLC in complying with the requirements of NEPA and BLM with NHPA for a 16 megawatt solar generating plant and associated transmission line within private and federal land. Duties included costing and planning an archaeological literature review, research design, and field survey, acquiring permits, coordinating with the BLM Tonopah field office archaeological staff, coordinating archaeological field crew and leading Class III field survey efforts of 310 acres of land. Identification, recordation, mapping, and form preparation, and eligibility recommendations for 15 archaeological sites (14 historic primarily complex WWII Tonopah Army Air Field types and 1 prehistoric) and 25 isolates. Authored preliminary cultural report and draft Class III report and submitted to BLM staff.

Assistant Field Director, January and March 2012
Quail Brush Generation Project, San Diego, California
To comply with CEQA, Tetra Tech conducted cultural resources investigation in support of the Quail Brush Genco, LLC’s Quail Brush Generation Project. Assisted Field Director with a supplemental field survey consisting of “vegetation removal” on a grid system (1 x 1 meter removal units, 15 meter intervals, of approximately 200 acres) in order to better view the surfaces where archaeological materials may exist. Under the supervision of the archaeological Principal Investigator duties included, served as assistant field director and conducted field survey, coordinated and supervised archaeological field survey and Native American survey monitors daily, daily review of field survey forms, recordation of archaeological sites, and daily reporting of findings and field effort result. Native American Monitors were provided by LJS Cultural Monitoring, LLC (Native American owned and operated by members of the Viejas Band of Kumeyaay Indians and the Santa Ysabel Band of Diegueno Indians) as recommended by the Kumeyaay Cultural Repatriation Committee (San Diego County).

Principal Investigator Archaeologist – November-December 2011
BP Wind Energy, Fortynine Mountain-Hayes Canyon Wind Project, Surprise Valley, CA
The purpose of the study is to assist BP Wind Energy in complying with the requirements of NEPA for a purposed SODAR unit and eventual wind farm in northeastern CA. Duties include consultation and coordination with the BLM Surprise Valley Field Office (lead Federal agency), conducted literature and records review, planned and conducted field survey for Sodar location (11.31 acres), and author of all associated reports and final agency submittal.

Archaeologist/ Review, 2011-2012-ongoing
Silverado Power, Silverado Solar, throughout Southern California
Duties include cultural literature searches and review of cultural sub-consultant reports for several proposed solar facilities throughout Southern California. Conducted archival research, field survey, and reporting, and meetings with historical societies, for a historic cemetery identified within a proposed parcel located on private land within the Antelope Valley, CA.

Archaeologist/Author, May 2010-2011
Ridgeline Energy, LLC, Pah Rah Ridge Wind Resource Area, near Reno, Nevada, Washoe County
The purpose of the study was to assist Ridgeline Energy, LLC, in planning for a large scale wind farm. Duties included a literature review and critical issues analysis study to identify potential key cultural resource. The study was submitted to the BLM Carson City Field office archaeologist.

Field Director, 2008-2011
Genesis Solar, LLC, Ford Dry Lake and McCoy Wash Solar Projects, Riverside County, CA
The purpose of the study was to assist Genesis Solar, LLC, in complying with the requirements of the California Energy Commission lead agency for CEQA and the BLM lead agency for NEPA for a large solar facility in southeastern California. Duties include: acquired federal cultural resource permits, assisted Archeological Principal Investigator with all aspects of cultural resource coordination and planning. Under the supervision of the PI, directed and conducted Class I literature review, Class II sample survey, and Class III field surveys, recorded archeological sites on DPR forms, co-authored and prepared Inadvertent Discovery Plan, Cultural Resource Monitoring and Mitigation Plan and Historic Properties Treatment Plan, cultural resource section of the Workers Environmental Awareness Plan. Conducted archaeological testing and mitigation of prehistoric sites and historic sites (specifically WWII Desert Training Center types), co-authored cultural resources reports and research design, agency data request, response to comments, mappings, conducted public and agency presentations regarding project and cultural resources, consultation with BLM Palm Springs Field Office archaeologist and the CEC at several meetings, attend CEC/BLM workshops. Co-authored the report “Late Pleistocene/Early Holocene Occupations at Ford Dry Lake, Riverside County, California” presentation based on Project
findings. The Report was presented at the Society for American Archaeology Meetings in April 2012 (report presented by PI).

**Deputy Project Manager/Field Director, 2008-2010**

**Blythe Energy Transmission Line Project, Riverside County, CA**

The purpose of the study was to assist Blythe Energy, LLC in complying with the requirements of the California Environmental Quality Act (CEQA) and assist with compliance under the Application for Certification, California Energy Commission’s (CEC) final staff assessment (CEC), Docket # 99-AFC-8c) for a 67.4 mile, 230kV overhead transmission line. Duties include: preconstruction permitting, construction compliance, state and federal agency consultation, developing, writing, and assisting disciplines with several treatment, mitigation and monitoring plans (e.g. lighting mitigation, surface treatment, paleontological and cultural resources mitigation and monitoring, environmental training, etc.). Coordinating meetings, schedules, document production, and other project related task with Client, Contractors, CEC Cultural Resources staff, BLM Palm Springs Field Office Cultural Staff, and County of Riverside. Assisted Archaeological Principal Investigator with Cultural Resource survey planning, reporting, cost estimates, and producing a Cultural Resource Mitigation and Monitoring Program/ Historic Properties Treatment Plan, Inadvertent Discovery Plan for project construction. Coordinated archaeological field visits with agency Cultural Staff and Project staff and implemented mitigation measures. Coordinated and managed construction cultural resource monitors. Consulted and coordinated with local tribes regarding the project, and contracted Native American Monitors (Torres-Martinez Desert Cahuilla Indians) for the project. Curated and submitted artifacts to San Bernardino Museum and assisted PI with final reports, DPR forms, and required cultural resource project submittals.

**Principal Investigator, 2009**

**NextEra, Salt Creek Solar Project, San Bernardino, CA**

Served as Principal Investigator, duties included, obtained cultural resource FA permit, and performed a literature review and a Class III Cultural Resources Survey on BLM land (Barstow field office) for one Irradiance Meter Site and associated access routes. Duties also included, prepared Environmental Assessment and the Class III field survey report and submitted final to agency.

**Principal Investigator, December 2009-February 2010**

**CPV Wind, Saltdale Meteorological Tower Project, Kern County, CA**

Served as the Principal Investigator, duties included coordination with BLM Ridgecrest Field Office, obtained cultural resource FA permits, conducted literature review, and supervised Class III pedestrian survey of 12.8 acres on BLM land. Duties also included author of the Class III survey report “A Class III Cultural Resource Inventory for CPV Saltdale Renewable Energy Company LLC, Proposed Meteorological Installation, Kern County California” and submittal of final to agency, and prepared cultural resource section of the Workers Environmental Awareness Program, and coordination and supervision of cultural resource monitor during installation of towers.

**Principal Investigator, 2008-2009**

**eSolar, Los Angeles, San Bernardino, Kern, and Riverside County, CA**

The purpose of the study was to assist eSolar in complying with the requirements of CEQA for several 100+ acres project within the southern California Desert. Duties include cultural resource planning and coordination of staff, literature searches, field survey, and reporting for eventual CEC certification.

**Field Director/Author, January –August 2007**

**Dillon Wind LLC, Palm Springs, CA**

Under supervision of principal investigator, performed a literature review and a 100% pedestrian cultural resource survey of approximately 1,500 acres of vacant land for Dillon Wind LLC’s (LLC) proposed 45
megawatt (MW) wind energy conversion system (WECS) project, located near the San Gorgonio Pass, north of the City of Palm Springs and west of Desert Hot Springs, Riverside County, CA (within the Cochella Valley of the Colorado Desert). The purpose of the study was to assist LLC in complying with the requirements of the California Environmental Quality Act (CEQA). Duties included, literature review, field survey, recordation of sites and DPR forms, conducted Native American Consultation and coordination with Native American Cultural Monitors (Agua Caliente Band of Cahuilla Indians), prepared Final Cultural Report for submittal to the County of Riverside, CA, and prepared the Cultural Resources Mitigation and Monitoring Plan, coordinated and supervised archaeological construction monitors, coordinated with construction staff and the County of Riverside and resolved any cultural issues efficiently and in a timely manner.

**Project Manager/Field Director/Author, 2007-2008**  
**Bonneville Power Administration, Ferry and Stevens County, Washington**  
Under the supervision of the PI, performed a literature review and a 100% pedestrian cultural resource survey of approximately 24.14 acres (210 power pole locations), recorded archaeological sites, eligibility recommendations, and prepared the Section 106 Report. Other duties included coordination with client, land owners, recordation of archaeological sites and National Register of Historic Places evaluations, and final report preparation and submittal.

**Field Director/Author, 2007**  
**Catamount Energy, Clark County, NV**  
Served as Field Director under the supervision of the archaeological PI, duties included coordination with the BLM field office, performed a literature review and a Class III Cultural Resources Survey for 12 meteorological tower sites and associated access routes. Prepared Environmental Assessment and co-authored the Class III Survey Cultural Resources Report and submitted cultural report to BLM.

**Field Director/Author, 2007**  
**enXco, San Bernardino County, CA**  
Served as Field Director under the supervision of the archaeological PI, duties included coordination with the BLM Barstow field office archaeological staff, obtained cultural resource permits and performed a literature review and a Class III Cultural Resources Survey for two Meteorological Tower sites and associated access routes. Prepared Environmental Assessment and the Class III Survey Cultural Resources Management Report for submittal to the BLM.

**Field Director/Author, 2007**  
**Meteorological Towers Survey for Boulevard Energy, Kern County, CA**  
Served as Field Director under the supervision of the archaeological PI, duties included, coordinated with BLM Ridgecrest field office for FA permits, performed a literature review and a Class III cultural resource survey for four meteorological tower locations near the town of Tehachapi, in Kern County, California. Also co-authored and prepared the Class III Survey Cultural Resources Management Report and submitted to the BLM.

**Archaeological Field Director, 2006**  
**SkyRiver MET Towers, LLC, Tehachapi, CA**  
Served as Field Director under the supervision of the archaeological PI, duties included, obtained appropriate permits from BLM (Ridgecrest, CA); performed a literature review, survey, and reporting for over 4 linear miles and one acre of land for the Sky River project’s proposed MET tower locations and access route in the Southern Sierra Nevada, CA (15 miles northeast of Tehachapi, CA). Prepared and submitted Final Cultural Resource Report for submittal to the BLM Ridgecrest field office.
Field Director, November 2004  
**Beehive Telephone Company, Grouse Creek Project, UT**
Served as Field Director for a 230-mile linear heritage resource inventory of a proposed fiber optic line that runs across BLM, DOT, and State lands in Northwestern Utah. Duties included obtaining permits from agencies, archaeological survey, and detailed site recording procedures. Future work associated with this project includes full Section 106 compliance documentation and reporting as mandated by the BLM, DOT and the Utah SHPO.

Crew Chief, January 2005  
**Eurus Energy America Corporation, Combine Hills Project, Phase II, OR**
Served as Crew Chief for a 484 acre development corridor for the Combine Hills Turbine Ranch Phase II project (wind-power project). Duties included a heritage resources inventory of the 484-acre development corridors, recordation and GPS mapping of archaeological sites, photographic documentation, and incorporating final survey results and documentation into an existing report.

Archaeologist, January 2005 – Present  
**Sound Energy Solutions, Long Beach LNG C2 Pipeline Project, CA**
Served as Section 106 compliance report author for a C2 pipeline route that extends from proposed Long Beach Liquid Natural Gas import terminal to the ConocoPhillips Los Angeles Refinery, Carson Plant in southern California to satisfy regulator (Federal Energy Regulatory Commission) compliance. Duties also included Native American Consultation, photographic documentation, review of literature research, and heritage resource inventory of the project area.

Archaeological Technician, May 2004  
**Pacific Legacy, Old Sacramento County Hospital Cemetery, Sacramento, CA**
Served as an archaeological technician for a Phase III burial excavation and relocation of the old Sacramento County Hospital Cemetery (c.1880s-1920s). Duties included identifying features, implementation of burial excavation methods, exhuming human remains, data collection and excavation documentation.

Crew Chief/Collections Manager, 12/2003  
**Edwards Air Force Base Evaluation of Archeological Sites, Edwards AFB, CA**
Served as a Crew Chief for Phase I EAFB southern boundary survey. Duties included field supervision of crew, implementation of survey techniques, site relocation and documentation, and new site recording, and collection of artifacts. Served as Collection Manager/Crew Chief for Phase II excavation of 15 prehistoric sites duties include standard excavation practices, lithic characterization, daily collection of artifacts and excavation documentation, artifact and sample preparation, curation.

Archaeologist/Author, 9/2003  
**Roseville Energy Center, City of Roseville, CA**
Roseville Energy in complying with the requirements of the California Environmental Quality Act (CEQA) and assist with the Application for Certification under the California Energy Commission’s (CEC) permitting process for a natural gas-fired power plant, and associated pipelines, Docket # 03-AFC-1. Under the supervision of the Cultural Resource Specialist, duties included: conducted extensive record searches (at the California Historical Resources Information Center, State Library, and City Offices) literature review, and historic map reviews, consulted with city and county Historic Resource personnel, the Native American Heritage Commission, the Native American tribes, and the State Historic Preservation Office, co-author of cultural resource report, replied to response, comments, and any data request requirements, consulted with interested parties regarding cultural resources, and
conducted archaeological and architectural field inventories for prehistoric and historic archaeological properties and historic buildings and structures.

**Crew Chief, 5/2003-7/2003**  
**Buena Vista Project, Chillon Valley, Peru**  
Crew Chief for the University of Missouri summer archaeological field school in northern Peru, 2003. Supervised student crew excavation of a Preceramic and Initial period archaeological site. Assisted students with archaeological field methods including, excavation, mapping, unit documentation and photography, artifact identification and collection, soil samples, and unit profiles. Lab work consisted of lithic and ceramic analyses and a study of human remains from biological specimens collected from the site.

**Archaeologist/Author, October 2003-December 2003**  
**Silicon Valley Power, Pico Power Project, Santa Clara, CA**  
Under the supervision of the archaeological PI, duties included co-author of the Cultural Resources Section for the Initial Study, and the Cultural Resource Section for the Application for Certification under the California Energy Commission’s permitting process for a natural gas-fired power plant, and assisted in the development of a Cultural Mitigation and Monitoring Plan. Conducted extensive record searches (at the California Historical Resources Information System, State Library, and City Office) literature review, historic map reviews, and oral interviews. Consulted with city and county Historic Resource personnel, the Native American Heritage Commission, Native American tribes, and the State Historic Preservation Office. Conducted archaeological inventories for prehistoric and historic archaeological properties and historic buildings and structures. Recorded historic structures and completed site documentation. Completed and provided data requests to the CEC.

**Archaeologist/Author, November 2003 – February 2004**  
**USDA Forest Service, Clear Creek Kings Canyon Landscape Analysis, Humboldt-Toiyabe National Forest, CA**  
Served as a technical author for the Cultural Resource section of a detailed, large-scale watershed/landscape analysis in western Nevada. This multi-task assignment included significant archival research to determine the extent and adequacy of existing cultural resources (sites, landscapes, etc.), including their National Register of Historic Places (NRHP) status. Other tasks included determining the desired conditions for cultural resource management, analysis and synthesis of collected data, preparing prehistoric and historic background contexts for the affected area, and the development of recommendations to reconcile current and desired conditions for the analysis area.

**Archaeologist/Author, 2002**  
**USDA Forest Service, Hidden Valley Watershed Analysis Project, Shasta Trinity National Forest, CA**  
Served as a technical author for the Cultural Resource section of a detailed, large-scale watershed/landscape analysis in northern California. This multi-task assignment included significant archival research to determine the extent and adequacy of existing cultural resources (sites, landscapes, etc.), including their National Register of Historic Places (NRHP) status. Other tasks included determining the desired conditions for cultural resource management, analysis and synthesis of collected data, preparing prehistoric and historic background contexts for the affected area, and the development of recommendations to reconcile current and desired conditions for the analysis area.

**Archaeological Technician, 2002**  
**Upper Slate DFPZ Project, Plumas National Forest**  
Conducted archaeological surveys, recorded historic and prehistoric archaeological sites, and site form preparation.
Author/Archeologist, 2002
Calpine Corporation, Calpine Eureka Project Critical Issues Review, Humboldt Co., CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Review for the project area.

Author/Archeologist, January 2002
Calpine Corporation, Milpitas Energy Center Critical Issues Review, CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Analysis for the project area.

Archaeologist, April 2002 – 2003
Midway Power, LLC, FPL Energy, Tesla Power Project, CA
Under the supervision of the archaeological PI and Field Director, conducted archaeological surveys and recorded historic resources and conducted literature search for the proposed project site and pipeline linear routes. Assisted with the completion of data adequacy request for submittal to the California Energy Commission. Author of sections for an Archaeological Resource Management Report (including maps and graphic profiles), and completed DPR archaeological site forms for submittal to the California Historical Resources Information Center.

Archaeologist/Author, 2002
City of Modoc, Alturas Power Project Critical Issues Analysis, CA
Served as an archaeological author and conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Analysis for the project area.

Archaeologist/Author, 2001-2002 King City Project, Calpine Corporation
Served as crew chief under the supervision of the archaeological Principal Investigator, duties included, co-author of the Cultural Resources Section of the Application for Certification under the California Energy Commission’s 21-day Process for LM6000 natural gas-fired turbines at the existing power plant facilities, for submittal to the California Energy Commission. Planned and conducted cultural resources field inventory and archaeological literature search of the proposed power plant project site in Santa Clara and Monterey counties and consulted with the Native American Heritage Commission and Native American tribes.

Author/Archaeologist, October 2001
Calpine Corporation, Pajaro Energy Center, Monterey Co., CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Analysis for the project area. Collected archaeological field data from technical staff and authorship of the Archaeological Resources Management Report for submittal to client and the California Historical Resource Information Center.

Author/Archeologist, October 2001
Calpine Corporation, Hesperia Energy Center Critical Issues Review, San Bernardino Co., CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Review for the project area.

Archaeologist/Author, 2001
Russell City Energy Center (01-AFC-07)
Author of the cultural resources section for the environmental assessment for the reconductoring of the transmission line. Conducted a cultural resource literature search and prepared the cultural resources inventory and historical background information.
Author/Archaeologist 2001
Calpine Corporation, Antioch Energy Center Critical Issues Review, Antioch, CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Analysis for the project area.

Author/Archaeologist, April 2001 – June 2001
Calpine Corporation, Southport Peaking Power Project Critical Issues Review, CA
Conducted literature searches, analyzed data, and authorship of the cultural resource section for the Critical Issues Analysis for the project area.

Archaeologist, October 2001
Rio Linda/Elverta Power Project, Florida Power and Light
Conducted archaeological and architectural surveys within project area and along linear pipelines, recorded historic structures, and prepared site form documentation.

Senior Archaeological Technician, August 2001
Inland Empire Power Project, Calpine Corporation
Conducted archaeological surveys and site recordation of the proposed project area, and pipeline linears.

Senior Archaeological Technician, 2001
Edwards Air Force Base: Management Region 5, Palmdale, CA
Senior Archaeological Technician for Phase II detailed mapping and test excavation of 29 archaeological sites chosen from various sub-areas of Management Region 5 on the installation’s Precision Impact Range Area. Operated high-precision global positioning system equipment for detailed site mapping, conducted test excavations, and laboratory analyses to determine National Register eligibility of the 29 archaeological sites.

Senior Archaeological Technician, November – December 2001
Edwards Air Force Base: Management Region 5, Palmdale, CA
Senior Archaeological Technician for Phase II detailed mapping and test excavation of 30 archaeological sites chosen from various sub-areas of Management Region 5 on the installation’s Precision Impact Range Area. Operated high-precision global positioning system equipment for detailed site mapping, conducted test excavations, and laboratory analyses to determine National Register eligibility of the 30 archaeological sites.

360 Networks Incorporated, Oregon and Northern California Fiber Optics Installation Project
Cultural Resources Technician providing technical and professional support in monitoring compliance for the protection of cultural resources for a fiber optic conduit installation program in southern Oregon and northern California. Monitored construction activities and conducted archaeological surveys and test excavations. Worked closely with Native American monitors. Ensured that all construction activities are performed in accordance with California Public Utilities Commission (CPUC) mitigation requirements and Forest Service/agency permit conditions. Served as a liaison between construction personnel, tribal monitors, and agency representatives.

Previous Experience
Archaeologist GS-7, 10/99-05/00
Bureau of Land Management, Elko, NV
Duties included: assisting with Heritage Resource Surveys, on-site archaeological investigation, Native American consultation, site recordation, report writing, prefield research, GIS/GPS sites, create maps in ArcView/GIS, and complete associated projects.
Jenna Farrell  
Associate Social Scientist/Archaeologist

Archaeologist GS-193-07, 06/99-10/99  
U.S.D.A Forest Service, Humboldt-Toiyabe National Forest, Elko, NV  
Supervisor: Fred Frampton 775-738-5171  
Duties included: assisting with heritage resource surveys, prefield research, Native American consultation, on-site archaeological investigation, site recordation, report writing, and completed associated projects, supervised a crew of volunteers during a three-week Passport In Time excavation.

Archaeological Technician, 02/99-05/99  
Holman & Associates, San Francisco, CA, Crissy Field Project  
Supervisor: Mathew Clark 650-726-6269  
Duties included: Assisting with field and lab work pertaining to the archaeological investigation of a historic site (some prehistoric), excavation, screening, sketching stratigraphic profiles, data recovery, tabulation, historic artifact analysis (c. 1776-1940) and artifact preservation.

Archaeological Technician GS-04, 06/98-11/98  
USDA Forest Service: Modoc National Forest, Alturas, CA  
Supervisor Gerry Gates 530-233-8730  
Duties included assisting with the heritage resource survey, on-site archaeological investigation, site recordation, prefield research.

Archaeological Technician, 07/97-03/98  
Roscoe & Associates; Eureka, CA  
Phase I and II survey and excavation along the north coast of California. Duties included: field survey, drafting maps, data entry, pre-and post-field research, site testing (excavation), site form and authorship of a section for a cultural resource report.

Professional Accomplishments  
Inducted into Pi Gamma Mu, the International Honor Society for Social Science  
Forest Service Spot Award, 9/1998  
Employee Recognition Award, Bureau of Land Management, 2000  
Tetra Tech Spot Bonus Awards 2006-2007

Professional Affiliations  
Member, Society for American Archaeology  
Member, Society for California Archaeology
EDUCATION

**California State Polytechnic University, Pomona**, June 2010
Bachelor of Science in Anthropology, emphasis in Cultural Resource Management
Dean’s List - Spring 2009, Winter and Spring 2010 Quarters

**Citrus Community College, Glendora, CA**, June 2008
Associates of Arts in Social and Behavioral Science

RESEARCH INTERESTS

California, western North America, hunter-gatherers, groundstone

RESEARCH EXPERIENCE AND PRESENTATION

**Guest Speaker, The Colony at Loft 204 Art Gallery, Claremont, CA**, April 2013
- Discussed California archaeology and medicinal plants used by native Californians during an Earth Day event.

**Guest Speaker, California State Polytechnic University, Pomona**, Oct. 2010 and Nov. 2012
- Spoke in an archaeology class describing my progress from being a college student studying archaeology, attending field school and my time working professionally in the field.

**Archaeology Lab, California State Polytechnic University, Pomona**, 2009-2010
- Analyzed groundstone for an archaeological site excavated in the Inland Empire.
  Research presented at the Society for California Archaeology Annual Meeting in Riverside, CA entitled “Analysis of a Middle Period Site at Little Red Hill in Rancho Cucamonga” by Brittany Webb, Raymond Contreras Jr., Henry Duong, Sydni Kitchel, Megan Ramos, Alice Tokunaga, Jessica Valdez, and Margarita Villarreal.

MEMBERSHIPS IN CLUBS AND ORGANIZATIONS

**Society for California Archaeology**, 2009-Present
- Presented at the Annual Meeting in March 2010 in Riverside, CA

**Society for American Archaeology**, 2011-Present
- Volunteered at the Annual Meeting in April 2010 in St. Louis, MO

PUBLICATIONS

**Society for California Archaeology, Proceedings, Vol. 24**
- Online publication of “Analysis of a Middle Period Site at Little Red Hill in Rancho Cucamonga” by Brittany Webb, Raymond Contreras Jr., Henry Duong, Sydni Kitchel, Megan Ramos, Alice Tokunaga, Jessica Valdez, and Margarita Villarreal.
ARCHAEOLOGICAL EXPERIENCE

Senior Science Technician, Tetra Tech EC, Inc.
Joshua Tree, California, April 2013
- Joshua Tree Solar Project, Phase II
- Under the supervision of Erin King
- Crew chief of a 40 acre parcel
- Wrote site forms, photographed artifacts and recorded isolates and sites on a Trimble GPS unit
- Typed site forms and co-authored the final report writing the methodology and site description sections

Adelanto, California, April 2013
- Adelanto Solar Project Cultural Field Survey
- Under the supervision of Jenna Farrell
- Surveyed 400 acres
- Wrote and typed site forms, and recorded isolates and sites on a Trimble GPS unit

Elko, Nevada, December 2012
- Elko Class II Inventory
- Under the supervision of Mark Karpinski
- Revisited and updated previously recorded sites, photographed artifacts
- Photocopied site records in the Elko BLM office

Volunteer, Cal Poly Pomona Field Class
Mojave Desert and Fort Independence Indian Res., California, October-November 2012
- Three weekends helping students learn the basics of archaeology
- Under the supervision of Mark Allen
- Supervised students excavating 1x1m test units and with mapping bedrock features
- Mapped a plan view of rock art cave and bedrock milling features
- Screened dirt piles for Native American human remains and artifacts
- Taught students artifact identification

Volunteer, Elden Pueblo Archaeological Project
Flagstaff, Arizona, September 2012
- Elden Pueblo Public Archaeology Day
- Under the supervision of Tom Woodall
- Gained basic knowledge on Colorado Plateau ceramics
- Participated in pueblo preservation constructing mud slabs over existing historic cement
- Educated the public on flake stage production, groundstone and pottery
Volunteer, San Manuel Band of Mission Indians

Big Bear City, California, August 2012
- Annual Yuhaviatam Summer Camp
- Under the supervision of Daniel McCarthy
- Helped construct a ramada at the Big Bear Valley Historical Museum
- Conducted experimental archaeology on Native American construction techniques and building materials

Senior Science Technician, Tetra Tech EC, Inc.

Pendleton, Oregon to Nampa, Idaho, May-July 2012
- Boardman to Hemingway Transmission Line Project, Phase III
- Under the supervision of Stephen R. Anderson
- Surveyed nearly 400 hundred miles of corridor and access roads through high desert and mountain terrain on the Columbian Plateau
- Wrote site forms, photographed artifacts, recorded isolates and sites on a Trimble GeoXT GPS unit

Tonopah, Nevada, April 2012
- Indeck Tonopah Solar Energy Center Project
- Under the supervision of Jenna Farrell
- Surveyed 310 acres of proposed solar panel field, access roads and gen-tie areas
- Recorded and wrote IMAC site forms for World War II military features

Joshua Tree, California, March 2012
- Joshua Tree Solar Project, Phase I
- Under the supervision of Stephen R. Anderson
- Surveyed approximately 220 acres
- Wrote and typed site forms for prehistoric and historic artifacts

Archaeological Technician, Galvin Preservation Associates subcontracted through Statistical Research, Inc.

San Bernardino and Riverside Counties, California, February-March 2012
- Caltrans rural road survey near Earp, CA, the Salton Sea and San Jacinto Mountains
- Under the supervision of Patrick Stanton and Scott Kremkau
- Worked with a cultural monitor from the Santa Rosa Indian Reservation
- Surveyed approximately 160 miles of highway
- Recorded historic roads and bridges on Trimble Juno ST and GeoXH GPS units
- Gained basic skills in SRIDMobile and ArcPad

Senior Science Technician, Tetra Tech EC, Inc.

Santee, California, January 2012
- Quail Brush Generation Project
- Under the supervision of Erin King
- Worked with Native American monitors from LJS Cultural Monitoring
Conducted modified shovel scrapes for over 1,000 units on a 15-meter grid
Wrote site forms, photographed artifacts and recorded isolates and sites on a Trimble GeoXT GPS unit

**Pendleton, Oregon to Caldwell, Idaho, May-July, October-November, 2011**
- Boardman to Hemingway Transmission Line Project, Phase I and II
- Under the supervision of Stephen R. Anderson
- Surveyed nearly 400 hundred miles through high desert and mountain terrain on the Columbian Plateau
- Wrote site forms, photographed artifacts and recorded isolates and sites on a Trimble GeoXT GPS unit

**Blythe, California, October 2010, January and April 2011**
- Genesis Solar Energy Project
- Under the supervision of Jenna Farrell
- Dug shovel test pits on prehistoric sites
- Surveyed, recorded and photographed prehistoric and historic artifacts
- Recorded artifacts and environmental landmarks on a Trimble GeoXT GPS unit

**San Bernardino National Forest Field School, CSU, San Bernardino**
**Big Bear, California, June-July 2010**
- Five week field school camping in the San Bernardino National Forest
- Directed by Bill Sapp and Daniel McCarthy
- Surveyed approximately 700 acres
- Excavated for a vault restroom at Juniper Springs Campground
- Learned to read topographic maps and to use a compass
- Drew sketch maps, wrote and updated site forms
- Learned historical can and bottle identification
- Conducted experimental archaeology with flint knapping and basket weaving

**Volunteer, California Cultural Resource Preservation Alliance**
**Huntington Beach, California, March 2010**
- Bolsa Chica Land Trust Restoration Project
- Under the supervision of Pat Martz
- Surveyed 120 acres
- Located and recorded 7 shellfish scatters
- Relocated the historic Bolsa Chica Gun Club and updated site records

**Collections Management Volunteer, San Bernardino County Museum**
**Redlands, California, July 2009-June 2010**
- Under the supervision of Dee Schroth
- Performed inventory inspection and maintenance on artifacts
- Chronologically organized journals and periodicals
Photographed and cataloged artifacts for file
Input data into catalogs/computer programs
Help set up an exhibit at CSU, San Bernardino

**Student, Cal Poly Pomona Field Class**
**Sage Canyon, Mojave Desert, California, April and May 2009-2010**
- Under the supervision of Dr. Mark Allen
- Spent three weekends learning the basics of archaeology
- Learned to identify artifacts, survey, and set up and excavate a 1x1m test unit
- Crew leader on a unit responsible for writing paperwork
- Later conducted research and volunteered in the lab on this project

**PERSONAL INTERESTS**

Traveling, hiking, chaparral flora, and photography

**REFERENCES**

**Stephen R. Anderson, MA, RPA – Social Scientist, Archaeologist**
Tetra Tech EC, Inc.
Stephen.Anderson@tetratech.com
303.980.3601

**Erin King, MA, RPA – Archaeologist**
Tetra Tech EC, Inc.
Erin.King@tetratech.com
916.502.6044

**Jenna Farrell – Archaeologist**
Tetra Tech EC, Inc.
Jenna.Farrell@tetratech.com
916.853.4575

**Mark Allen, PhD – Professor of Anthropology/Aрхеology**
California State Polytechnic University, Pomona
mwallen@csupomona.edu
909.869.3577
Employment History


**Duties:** Survey and construction monitoring.

**Projects:** Lassen Lodge Hydroelectric Project, Tehama County, CA; Ford Dry Lake Project Genesis Solar Survey, Blythe, CA; Blythe Energy Project Transmission Line; eSolar Survey, Lancaster, CA; East Idaho Goshen Wind Survey, Idaho Falls, ID; Quail Brush, Santee, CA; Solar Survey Joshua Tree, CA; Solar Survey Tonopah, NV; B2H Transmission Line, Eastern Oregon to Idaho; Sand Hill Wind, Altamont Pass, Tracy, CA; Adelanto Solar Survey, Adelanto, California; Joshua Tree Solar Survey Phase II, Joshua Tree, CA.


**Duties:** Survey and shovel testing.


**Duties:** Class III survey.

**Projects:** Desert Southwest transmission line survey from Blythe to Desert Hot Springs, CA; El Centro transmission line survey.

**August 2010- Dec 2010:** Northwind, Inc., Archaeological Monitor, Idaho Falls, ID

**Duties:** Monitoring for Unexploded Ordnance removal activities, documentation of “blow in place” activities for ordnance disposal in coordination with sweep crews.

**Projects:** UXO clean up at Vandenberg AFB, Lompoc, CA.

**September 2009:** SAIC, Archaeological Field Technician, Carpinteria, California. Supervisor Stephen Byrne, (805) 566-6427, STEPHEN.C.BRYNE@saic.com.

**Duties:** Survey for naval flight zone activity areas.

**Projects:** Flight Zone survey, Marine Mountain Warfare Training Center, Bridgeport, CA.


**Duties:** Management of base-wide cultural resources in support of the Archaeological Resource Protection Act, monitoring, data collection, site recording using Trimble GPS and site record preparation, monthly and annual reporting, survey, excavation, laboratory processing and
Erica D. Maier

collections management at curation facility, data entry, use of GIS software to prepare maps and manage data collection.

**Projects:** Diverse base-wide environmental management in response to AFB activities.

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**June 2003-December 2004: Garcia and Associates, Archaeologist, San Anselmo, California.**

*Supervisor Stephen Bryne, Archaeologist.*

**Duties:** Survey, excavation, and construction monitoring; report contributor; production of site record forms; artifact processing.

**Projects:** Sonoma-Marin Area Rapid Transit (SMART) high speed rail system surveys, Novato, Petaluma and Santa Rosa, CA; Geothermal Landfill Closure survey, site testing, construction monitoring, Middletown, CA; Underwood Mountain, Six Rivers National Forest survey and site testing for forest road construction.

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*Supervisor Ann Munns, Archaeologist.*

**Duties:** Excavation, water screening, artifact processing, data entry.

**Projects:** Site testing at Arroyo Burro State Beach, Santa Barbara, CA; laboratory processing of shell midden materials from Vandenberg AFB, Lompoc, CA.

**October 2001-August 2002: UCSB Graduate Studies Assistant, Santa Barbara/East Santa Cruz Island, California.**

*Supervisor Jennifer E. Perry.*

**Duties:** Survey, excavation, mapping with compass and tape, artifact sorting and analysis, catalogue coding and data entry.

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**January 2002-August 2002: UCSB Department of Anthropology, Research Assistant, Santa Barbara/West Santa Cruz Island, California,**

*Supervisor: Peter Paige.*

**Duties:** excavation, mapping, artifact sorting and analysis.

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**Education**

**Current,** Green Mountain College, Poultney, Vermont
Online Masters Program, Sustainable Food Systems, Graduate 2014

**Fall 2008,** Santa Rosa Junior College, Santa Rosa, CA
Sustainable Agriculture Courses

**Fall 2007,** Bakersfield College, Bakersfield, CA
Crop Science Online Course

1999-2002, University of California, Santa Barbara, CA
Bachelor of Arts Degree, Cultural Anthropology, Archaeology Emphasis

1997-1999, Santa Rosa Junior College, Santa Rosa, CA
General Education, Undergraduate Transfer Fall 1999
1993-1997, El Molino High School, Forestville, CA
High School Diploma, June 1997

Trainings and Certificates


JULIA MATES

Historian/Architectural Historian
Tetra Tech, Inc. – Oakland, CA

EDUCATION
M.A., History/Public History, California State University, Sacramento, CA 2001
B.A., History, University of California, Los Angeles, 1993

AREAS OF EXPERTISE
- Section 106 of National Historic Preservation Act
- California Environmental Quality Act (CEQA)
- National Environmental Policy Act (NEPA)
- United States Secretary of the Interior’s Guidelines for Historic Preservation
- Recreation, Land Use, and Aesthetics Author for CEQA/NEPA documents

QUALIFICATIONS
Ms. Mates has practiced the fields of history/architectural history and cultural resource management since 1999. Ms. Mates has served as a consulting historian on historical research investigations for federal, state and local governments. Her experience includes the inventory, recordation, and evaluation of historic resources using National Register of Historic Places and California Register of Historic Resources guidelines. Her environmental planning experience includes preparing reports for and making recommendations to federal, state, municipal and private entities regarding Section 106 review and compliance, including consultation with various State Historic Preservation Officers. She has experience with Section 106 of the National Historic Preservation Act, National Environmental Policy Act (NEPA), and the California Environmental Quality Act (CEQA).

As a cultural resources project manager at Tetra Tech, she has served as a consulting historian, principal investigator, and resource author. Ms. Mates has contributed to planning and cultural resources management projects in California, Oklahoma, Alaska, Nevada, Massachusetts, North Carolina, New Jersey, and Michigan. She has evaluated various types of historical resources for eligibility for National and State Registers, including those for dams, pipelines, culverts, bridges, roads, military structures, water conveyance systems, navigational aids, residences, and commercial and industrial buildings. Ms. Mates has written numerous technical reports and compliance documents, such as historic survey reports, findings of effect, determinations of eligibility and Historic American Buildings Survey / Historic Architectural and Engineering Record documentation. In addition to research, writing, and architectural recordation, Ms. Mates also has experience in conducting oral histories. Based on her level of education and experience, Ms. Mates qualifies as a historian/architectural historian under the United States Secretary of the Interior’s Professional Qualification Standards (as defined in 36 CFR, Part 61).

PROFESSIONAL EXPERIENCE
Preparation of Historic Properties Inventory, Portions of the Richmond Field Station, UC Berkeley, Richmond, CA, Principal Historian. Ms. Mates served as the Principal Historian for this project which entailed the inventory, recordation, and evaluation of twenty-five buildings on the Richmond Field Station to determine eligibility of the buildings for listing in the CRHR and
the NRHP. Many of the buildings date to the early twentieth century when the area was the California Cap Company. Ms. Mates served as the Project Manager, author, and evaluator of the report.

**Preparation of Eleven United States Postal Service Postal Historic Structure Reports, Principal Historian.** Tetra Tech was tasked by the United States Postal Service and Coldwell Banker Richard Ellis to conduct historic research and site documentation of eleven main post offices that the Postal Service was going to sell to private buyers. Preparation of each of these reports included conducting a site visit and documenting historic features, completing Part 1 of the Historic Structures Report as outlined in *National Register Brief 43: The Preparation and Use of Historic Structure Report*, Documenting the USPS delineation of the Area of Potential Effect (APE) for future undertakings, preparing the Department of Parks and Recreation Form (DPR) Form 523A for the post office property; and developing a proposed List of Interested Parties. Ms. Mates conducted the fieldwork for all eleven post offices, conducted research, and coordinated with the Postal Service for these highly visible projects. Ms. Mates worked with the Tetra Tech historians to produce these eleven reports in a very short time frame.

**Historical Resources Study for Buildings 46, 55, 63, and 64 at the Lawrence Berkeley National Laboratory.** Ms. Mates was the Principal Historian for this Historical Resources Study which documented the evaluation of Buildings 46, 55, 63, and 64 at the Lawrence Berkeley National Laboratory (LBNL) for eligibility for listing in the NRHP and the CRHR. Tetra Tech concluded that Buildings 46, 55, 63, and 64 are not eligible for listing in the CRHR or the NRHP individually nor as a historic district. Ms. Mates served as Project Manager and oversaw the inventory, evaluation, and analysis process.

**Determination of Eligibility, Preparation of Inventory and Evaluation Forms, and Memorandums of Agreement for Loran-C System, US Coast Guard, Principal Historian, Continental US.** Ms. Mates is the principal historian and project manager for this project which assists the US Coast Guard in fulfilling its Section 106 responsibility as it discontinues use of the Loran-C System of navigation. For this project, Ms. Mates prepared a Multiple Property Documentation Form for the Loran-C system within the continental US. She also prepared National Register of Historic Places nomination forms for Loran-C Stations that were determined to be eligible for listing in the NRHP as historic districts. The project continues as Ms. Mates works with the US Coast Guard and several State Historic Preservation Officers to determine appropriate mitigation measures to lessen the adverse effect of closing those stations determined eligible for listing. These mitigation measures will be included in Memorandums of Agreement, which Ms. Mates is assisting with in cooperation with individual SHPOs, the Coast Guard, and the Advisory Council on Historic Preservation.

**Formerly Used Defense Sites (FUDS), US Army Corps of Engineers, Cultural Resources Monitor, Fort Barry, Sausalito, CA.** This former Department of Defense site, Fort Barry, was found eligible for funding under the DERP-FUDS program of the US Army Corps of Engineers, and the remediation of specific areas of interest was required. Ms. Mates conducted monitoring to ensure preservation of cultural resources during boring and exploratory excavation. She was the report author which was given to the US National Parks Service, and detailed the monitoring activities. 2010.

**Environmental Assessment for Privatization of Army Lodging (PAL), Resource Author, US Army Corps of Engineers, Fort Huachuca, Fort Huachuca, Arizona, 2010.** Tetra Tech is
preparing an Environmental Assessment in compliance with the National Environmental Policy Act to address the privatization of Army lodging facilities at Fort Huachuca. The property includes multiple historical buildings and a new build site. Ms. Mates is the cultural resources author for the Environmental Assessment. Present.

Alice Griffith Environmental Impact Statement, Resource Author, Mayor’s Office of Housing, San Francisco, California. Tetra Tech is preparing an Environmental Impact Statement for redevelopment of the Alice Griffith public housing site. Ms. Mates is analyzing the project activities on cultural resources within the project area and is authoring the cultural resources section of the EIS. The project is in compliance with the NEPA regulation and the Department of Housing and Urban Development. 2010.

Camp Berryessa EA/IS at Lake Berryessa, Resource Author, Napa County Regional Park and Open Space District. Ms. Mates analyzed the projects impacts on architectural resources section and the Visual/Aesthetics and authored each section of the Environmental Assessment/Initial Study. She evaluated the potential impacts of creating a multi-use recreational facility to these resources on Bureau of Reclamation-managed lands at Lake Berryessa. 2010.

Gray’s Reef Light Station, Principal Architectural Historian, Emmett County, Michigan. Gray’s Reef Light Station is located in Lake Michigan, owned by the US Coast Guard, and listed on the National Register of Historic Places. The US Coast Guard wished to remove the radio beacon tower, located on the cupola of the light station. This Undertaking was considered an adverse effect on the historic property. Ms. Mates served as the architectural historian, overseeing the removal of the radio beacon tower and advising the removal contractors in order to ensure preservation of the structure. After successful completion of the removal, Ms. Mates authored a report detailing the removal and the Section 106 process and submitted it to the US Coast Guard and Michigan State Historic Preservation Office. 2010.

Lost Isle Cultural Resources Research Investigation, Acker Island, Stockton, California. Serving as research investigator for background historical land use of the project area, Ms. Mates conducted records searches and interpreted historic maps to determine the potential for the presence of cultural resources within a one-mile radius of the Lost Isle construction project on Acker Island. Ms. Mates’ research investigation memorandum was delivered to the Army Corps of Engineers, Sacramento District. 2010.


Booker T. Washington Recreational Center, San Francisco Mayor’s Office of Housing, San Francisco, California. Ms. Mates serves as the author for the cultural resources section of this Environmental Assessment for this project which involves demolition of the current building and construction of a new recreational center in its place. The building is eligible for the California Register of Historical Resources and the National Register of Historic Places under Criteria 2 and B, respectively. Ms. Mates analyzed the project activities on this historic resource,
developed mitigation measures, conducted State Historic Preservation Office consultation as well as Native American and tribal consultation. The project is in compliance with the NEPA regulation and the Department of Housing and Urban Development. 2010.

**Phelan Loop, Environmental Assessment, San Francisco Mayor’s Office of Housing, San Francisco, California.** Ms. Mates was the author for the cultural resources section of this Environmental Assessment for this project which entailed construction of a housing development at Phelan Loop. The project was in compliance with the NEPA regulation and the Department of Housing and Urban Development. Ms. Mates also conducted consultations with the State Historic Preservation Officer in compliance with Section 106 of the National Historic Preservation Act. 2010

**City and County of San Francisco Planning Department, As-Needed Historical Resources Consultant, San Francisco, California.** Ms. Mates has been selected twice to be listed as a historical resources expert on the San Francisco Planning Department’s list of historical specialists. The Planning Department provides this list to project proponents who require Historical Resources Evaluations and other historical resource documents to be completed in order to fulfill their environmental compliance requirements under CEQA. Ms. Mates has served as principal author and historian on large and small projects, authoring Historical Resources Evaluations and contributing to Environmental Impact as a result of her inclusion in this pool.

**Supplemental Historic Information Reports, the San Francisco Planning Department, As-Needed Historical Consultant.** The San Francisco Planning Department’s CEQA Review Procedures for Historic Resources require that supplemental historical information on a building be supplied by the applicant before any substantial exterior alteration are done to the exterior if the building is 50 years old or greater. Ms. Mates has completed the Planning Department’s Supplemental Information Form for Historical Resource Evaluation. Some recent Supplemental Information Reports include 463 Eureka Street and 671-673 26th Avenue.

**20 Hoffman Avenue, Impacts Analysis, Principal Historian/Architectural Historian, San Francisco, California.** The owner of the residence at 20 Hoffman Avenue requested that Ms. Mates analyze the impacts of proposed alterations on his house, a historic resource under CEQA and eligible for listing on the California Register of Historical Resources. The house is also listed on local historical registers. Ms. Mates conducted an impacts analysis of the proposed project using California Register of Historical Resources guidelines. Her report was submitted to the City and County of San Francisco Planning Department who concurred with her findings. 2010.

**2660 Harrison Street, Principal Historian/Architectural Historian, Historical Resources Evaluation, San Francisco, California.** Ms. Mates determined the eligibility of this industrial building in the Mission District of San Francisco for listing on the California Register of Historical Resources under CEQA as an individual resource and a contributor to an existing historic district. She authored a report discussing her findings of eligibility and analyzed impacts of the proposed project on the building. The report and determination were submitted by the owners of the building to the City and Planning Department of San Francisco, who concurred with Ms. Mates’ findings. 2010.

**Natural Areas Management Plan EIR, Historian, City and County of San Francisco Recreation and Park Department, San Francisco, CA.** Ms. Mates is preparing a Historic Resources Evaluation Report for the City and County of San Francisco Planning Department’s Major Environmental Analysis department. Ms. Mates recorded and evaluated the Sharp Park Golf Course in Pacifica and the Works Progress Administration-era walls and staircases at
Mount Davidson. These features are within two of the Natural Areas owned by the City of San Francisco. She prepared a Historical Resources Evaluation, and recorded the resources on Department of Parks and Recreation DPR 523 forms, discussing the findings of historic significance for these resources under CEQA. Ms. analyzed the impacts of the project on these historic resources. Ms. Mates will also prepare mitigation measures to lessen the impacts, if any, on the WPA features and golf course. 2010-Present

Preparation of Memorandums of Agreement for two United States Postal Service Disposals: 9942 Culver Boulevard, Culver City, CA and 836 Anacapa Street, Santa Barbara. Lead Historian and Project Manager, US Postal Service, Culver City, and Santa Barbara, CA. Ms. Mates prepared two separate Memorandums of Agreement between the US Postal Service and the California State Historic Preservation Office. The Postal Service is selling its NRHP-eligible post office in Culver City and its NRHP listed post office in Santa Barbara to private entities. These actions are considered adverse effects under Section 106 of the National Historic Preservation Act (36 CFR, Part 800). Ms. Mates prepared the draft documents on behalf of the Postal Service and assisted the Postal Service and its legal department with negotiations, finalization, execution, and implementation of the Memorandums of Agreement. 2009 and 2010.

San Francisco Mayor’s Office of Housing, Hunters View Redevelopment Project Environmental Assessment, Cultural Resources Author, San Francisco, CA. Ms. Mates analyzed the impacts on cultural resources on the proposed project—the demolition and construction of a multi-building affordable housing development in Hunters Point in San Francisco—under NEPA guidelines. The EA was also written to address requirements of the California Environmental Quality Act. Ms. Mates wrote the Cultural Resources section of the document and assisted with tribal consultations. 2009-2010.

California Environmental Quality Act Services for the Emergency Response and Earthquake Safety Bond Program, Historian, City and County of San Francisco, Department of Public Works, San Francisco, CA. Ms. Mates was the principal investigator and historian for a project involving the seismic retrofitting of the City and County of San Francisco’s Auxiliary Water Supply System (AWSS), constructed from 1909 to 1913, and the significance evaluation of one of the first fire stations constructed in Mission Bay. Ms. Mates conducted an inventory and evaluation for the components of the AWSS and prepared a Historic Resources Evaluation Report for the 100 year-old AWSS system, evaluating it for its historical significance for listing on the National Register of Historic Places, on the California Register of Historic Resources, and on local registers. Ms. Mates also assessed impacts of the proposed project on the AWSS and recommended mitigation measures to avoid significant impacts. She prepared a Memorandum of Agreement for this project because one of the AWSS properties is listed on the National Register of Historic Places and is located on federal land. The AWSS is San Francisco’s high pressure water supply system dedicated to fire protection. It consists of a 135-mile pipeline network, high elevation reservoir and tanks, saltwater pumping stations, fireboats, underground water tanks, and bay water intakes. For the second element of the project, Ms. Mates evaluated the historical significance of a 1928 fire station as an individual resource for inclusion on the California Register of Historical Resources. 2009-2010.

San Francisco Mayor’s Office of Community Investment, Ongoing Consultant Contract, Historian, San Francisco, California. Ms. Mates is the lead historian for architectural modifications and improvements to historic-era housing developments and complexes for the Mayor’s Office of Housing, Office of Community Investment. Tetra Tech has an ongoing
consultant services contract with the Mayor’s Office of Housing and Mayor’s Office of Community Development. Ms. Mates reviews the proposed alterations and their compatibility with the 2007 Programmatic Agreement between the City and County of San Francisco, the State Office of Historic Preservation in California and the American Council on Historic Preservation. Ms. Mates follows the standard Statutory Worksheet guidelines for historic preservation. 2007-Present.

High Water Bridge EA and Permitting, Cultural Resources Author, US Army Corps of Engineers, Mobile District, Camp Roberts, CA. The project entailed the preparation of an Environmental Assessment for replacing a historic-era bridge for the California Army National Guard at the Camp Roberts High Water Bridge. The EA was also written to address requirements of the California Environmental Quality Act. Ms. Mates analyzed the impact of project activities on cultural resources and wrote the cultural resources section. 2009.

Formerly Used Defense Sites (FUDS), US Army Corps of Engineers, Historian/Monitor, Fort Funston, San Francisco, CA. This former Department of Defense site, Fort Funston, was found eligible for funding under the DERP-FUDS program of the US Army Corps of Engineers, and the remediation of specific areas of interest was required. Ms. Mates conducted monitoring to ensure preservation of former Nike Hercules Missile magazines, which are historic properties, during boring and exploratory excavation.

Environmental Assessment of Military Housing Privatization, Historian, Fort Richardson, AK. Ms. Mates was the historian and cultural resources section author for the EA for this project, which would provide military family housing to meet Air Force housing standards and the ongoing and projected housing requirements for the installation. The project was needed to provide modern and efficient housing for military personnel and their dependents stationed at Fort Richardson, in accordance with Air Force guidelines for quality of life and floor space requirements. Ms. Mates wrote the cultural resources section of the EA, which identified, described, and evaluated the potential environmental impacts that were associated with MFH privatization. 2009-2010.

Environmental Assessment Update for Equipment Removal at the Over-the-Horizon-Backscatter Radar Tulelake Station, Modoc County, California (2009), Ms. Mates worked as the Cultural Resource Specialist, working with the US Air Force, Air Combat Command in Modoc County, CA. This EA provided updated and additional information for removal of the Air Force’s Cold War-era OTHB-R Tulelake facility within the Doublehead Ranger District of the Modoc National Forest. The previous EA could not achieve National Historic Preservation Act Section 106 concurrence by the California SHPO due to concerns regarding ground disturbance in an archaeologically sensitive area. Aspects regarding the Cold War-era facility itself were previously successfully documented through HABS/HAER. Ms. Mates conducted additional research and a reconnaissance of the previously recorded site locations within the 717-acre APE. Ms. Mates also assisted with Native American consultation and coordination with the Modoc National Forest Heritage Program Manager and Tribal Liaison to provide additional information regarding cultural resources and the potential of equipment removal to disturb those resources.

Phase I Cultural Resources Survey, Community Redevelopment Agency, Los Angeles (CRA/LA) Historian, Los Angeles, CA. Ms. Mates was the historian on this project to identify, inventory, and evaluate historic-age buildings and structures next to the proposed project. Ms. Mates evaluated the historical significance of buildings within the proposed project area under
CEQA guidelines and prepared the historic context under which to evaluate the historical architectural resources. Ms. Mates also prepared a Historic Resources Evaluation Report, which included an impacts assessment of the proposed project on historic resources. The project entailed the redevelopment of a 2.5-acre parcel by the City of Los Angeles, approximately ten miles from downtown and required archaeological and architectural surveys. September 2009.

**Genesis Solar Energy Project, Historian, Riverside County, CA.** Genesis Solar, LLC proposed to develop a 250-megawatt solar thermal power generation project on an 1,800-acre site between Desert Center and Blythe, California, on land managed by the Bureau of Land Management. Ms. Mates was the historian for the project, conducting a survey for built-environment resources within the proposed project area and inventorying on DPR 523 forms the historic-era resources, a road, and a transmission line. Ms. Mates also conducted research and wrote the historical context within which to evaluate these potential resources. September 2009.

**Thematic Study of Historic Homestead Sites, Historian and Project Manager, Edwards Air Force Base, CA.** Ms. Mates was the historian and project manager for a thematic study of ten historic homestead sites and associated refuse deposits on Edwards AFB, California. The project was conducted in compliance with Section 100 of the National Historic Preservation Act, and its goal was to expand on the regional understanding of homesteading in the western Mojave Desert by studying homesites on neighboring military installations. A secondary aspect of the project was to address the spatial and material relationship between the historic refuse deposits and historic homesites. Aside from conducting the research and writing the report, Ms. Mates’ responsibilities included coordinating with the program manager and the Base Historic Preservation Officer. She oversaw all aspects of the project, including coordinating project meetings, drafting a work plan for approval by the BHPO, and coordinating evaluation of the homesites and refuse deposits. 2008-2010.

**Cultural Resources Evaluation of Selected Buildings and Structures, Historian and Project Manager, Edwards Air Force Base, CA.** Ms. Mates was the project manager for the cultural resources evaluation of selected buildings and structures for the Base Historic Preservation Officer at Edwards Air Force Base. The project included recording and evaluating 61 buildings and facilities, preparing inventory and evaluation documents (Department of Parks and Recreation 523 forms), and preparing the HABS/HAER recordation form. For over five years, Tetra Tech has been overseeing the inventory of main base buildings as new building’s turn historic-age (50 years or older) under NEPA. 2008-2010.

**Natural Areas Management Plan EIR, Historian, City and County of San Francisco Recreation and Park Department, San Francisco, CA.** Ms. Mates was the project historian/architectural historian for an EIR analyzing the effects of implementing a management plan for 31 natural areas in San Francisco and Pacifica. Ms. Mates also inventoried and evaluated two of the Natural Areas, the Sharp Park Golf Course in Pacifica and Mount Davidson’s Work Progress Administration features, evaluating each for their historic significance and eligibility for listing on the California Register of Historical Resources. She assessed impacts of the proposed project on these two natural areas and recommended mitigation measures to avoid significant impacts. These natural areas encompass 1,105 acres and represent remnant native habitats within these urban areas. Both an Initial Study and EIR were prepared as part of the impact analysis process, and cultural resources were key issues. 2008-present.

**Los Angeles Unified School District (LAUSD) Historical Resources Survey and Evaluation Report Historian/Architectural Historian, South Los Angeles, CA.** Ms. Mates was principal
investigator for the project to construct a new school in a historic-era neighborhood of South Los Angeles. She conducted the historical resources inventory and survey to determine if the proposed project would impact historic resources under CEQA. Ms. Mates established the project’s area of direct and indirect impacts, inventoried and evaluated over 63 historic-age buildings for historical significance and integrity on DPR 523 forms, as individual resources and as a potential historic district under CEQA. Ms. Mates also wrote a stand-alone Historical Resources Evaluation Report to be submitted with EIR. 2008.

**LAUSD Historical Resources Survey and Evaluation Report for EIR, Investigator/Architectural Historian, MacArthur Park Project, Los Angeles, CA.** Ms. Mates was principal investigator for this project to construct a new school in a historic-era neighborhood of South Los Angeles. Ms. Mates conducted the historical resources inventory and survey to determine if the proposed project would impact historic resources under CEQA. She determined the project’s area of direct and indirect impacts and inventoried and evaluated historical resources for significance and integrity on Department of Parks and Recreation forms for inclusion on the state and national registers. Ms. Mates also wrote the cultural resources section of the EIR and analyzed proposed impacts on historic-age resources under CEQA. 2008.

**Residential Communities Initiatives Environmental Assessment, Cultural Resources Specialist, Forts Wainwright and Greely, Fairbanks and Delta Junction, AK.** Ms. Mates conducted archival research and prepared the cultural report for environmental analysis. She assessed proposed activities at both installations and determined the effect on historical resources for the proposed action as well as its alternatives. Ms. Mates conducted field investigations and worked closely with installation historians to gather background information for analyzing the impacts of the proposed project on the Historic District and Historic Landmark at Fort Wainwright. 2007.

**City and County of San Francisco Planning Department, Consultant Investigator/Architectural Historian, Historical Evaluations of Residences San Francisco, CA.** Ms. Mates researches, inventories, and evaluates residences for the City and County of San Francisco (CCSF) Planning Department for significance and integrity under CEQA. She inventories and evaluates historic-era resources and makes eligibility recommendations to the City and County of San Francisco’s Planning Department for the resource’s inclusion on the California Register of Historical Resources, individually and as a historic district. Each historical inventory and evaluation entails close communication with Planning Department personnel and homeowners seeking construction approval. 2007-Present.

**City and County of San Francisco, Historian, Mayor’s Office of Housing Environmental Review Services, Housing and Community Development Programs, San Francisco, CA.** Ms. Mates analyzes historic preservation matters for the Mayor’s Office of Housing (MOH) and the Mayor’s Office of Community Development (MOCD) under NEPA and other federal regulations. She prepares historical architectural evaluations and reports, historic preservation consultations, correspondence, and program summaries as a part of the City’s compliance with historic preservation laws and regulations. Ms. Mates attends meetings with MOH and MOCD staff, US Department of Housing and Urban Development, the State Historic Preservation Office (SHPO), other city agencies, and project sponsors to ensure that the potential impacts of proposed activities are fully investigated and that appropriate mitigations are incorporated into project design and implementation. 2007-Present.
Aliso Viejo Incoming Mail Facility Environmental Impact Statement, Cultural Resources Author, Aliso Viejo, CA. Ms. Mates wrote the cultural resources section of the EIS for the proposed development of a US Postal Service regional mail sorting facility. She analyzed the impacts of the proposed project and its alternatives on cultural resources. She consulted the State Historic Preservation Office and assisted with Native American Heritage consultations for the project’s alternatives and assisted with QA/QC for the final document. 2007-2008.

Cheyenne Mountain Oral History Project, Historian/Oral Historian, Cheyenne Mountain Air Force Station, Colorado Springs, CO. Ms. Mates was the principal historian for this project, the objective of which was to interview Air Force and civilian personnel associated with Cheyenne Mountain Air Force Base, NORAD operations, and the transfer of the mission to private contractors. Ms. Mates identified relevant narrators to interview, conducted oral histories of each person, and wrote a written document chronicling the history of the Air Force on Cheyenne Mountain. The oral history document relied heavily on information gathered from the oral histories to be used as a unique historical perspective for future researchers. 2007-2008.


Newlands Project Resource Management Plan and Environmental Impact Statement, Historian, US Bureau of Reclamation, Lahontan Basin Area Office, Various Locations, NV. Ms. Mates was the project historian and co-authored the cultural resources section of the EIS, which will guide management of approximately 442,000 acres of Reclamation-administered land in Nevada, predominantly in the Fallon and Fernley areas. No management plan existed for the Newlands Project lands that the Lahontan Basin Area Office administers, so an EIS was prepared for the RMP. Newlands is one of Reclamation's first projects and is primarily an irrigation project as set forth in legislation. The Newlands Project, constructed in 1903, provides irrigation water from the Truckee and Carson Rivers for about 55,000 acres of cropland in the Lahontan Valley near Fallon and bench lands near Fernley, Nevada. The purposes of the Newlands Project were expanded in 1990 under Section 209 of Public Law 101-618. Ms. Mates researched cultural resources and historical archives and evaluated the effect on cultural and historical resources from the proposed project. 2007-2008.

Bay Division Pipelines 3 and 4 Crossover Facilities CEQA Compliance, Cultural Resources Specialist, San Francisco Public Utilities Commission, South San Francisco Bay, CA. Ms. Mates was the principal investigator and historian for this project, which proposed additional crossover facilities at three locations in the South Bay to improve seismic reliability of the system and reduce the impact on customer deliveries in the event of a pipe break. Ms. Mates conducted research and field investigations and wrote the cultural resources report and the CEQA Initial Study document. She inventoried and evaluated Bay Division Pipeline No. 3 for significance under CEQA and assessed the proposed project activities’ effect on historic and cultural resources in and near the project area. 2007-2008.

Bay Division Pipelines 3 and 4 Seismic Upgrade CEQA Compliance, Historian/Architectural Historian, SFPUC, Fremont, CA. Ms. Mates was the historian for this project, the goals of which were to seismically upgrade the Bay Division Pipelines 3 and 4
along the Hayward Fault to improve reliability of the system and reduce the impact on customer deliveries in the event of a pipe break. Ms. Mates determined the area of potential direct and indirect impacts the project may have on historic resources, conducted an inventory and survey of historic-age resources, and evaluated historical resources within the project area for their historical significance under CEQA. Ms. Mates also assessed the proposed project’s effect on historical resources in and near the project area. 2008.

**Historic Context and Archaeological Properties Assessment, San Andreas Pipeline Number 3, Installation, San Francisco and San Mateo Counties, California, Author, San Francisco Public Utilities Commission, San Francisco and San Mateo Counties, CA.** Ms. Mates researched and wrote the historic context section for the Historic Context and Archaeological Properties Assessment (HCAPA) for the SFPUC, assessing the types of historical archaeological properties likely to occur within the fully developed project area and the likelihood of those resources to occur. Research involved understanding the historic environment of the San Francisco Peninsula, types of historical archaeological deposits on the Peninsula, distribution of sites, and preservation of sites given the historic development of the area. The HCAPA was used to assess the potential impacts and provide recommendations for project implementation in the project's IS and EIR. 2008.

**Historic Resources Survey for the US Highway, Oklahoma Department of Transportation County Improvement Roads and Bridges, Principal Investigator/Historian, OK.** Ms. Mates was the historian for the project, which satisfied NEPA compliance for six categorical exclusions prepared concurrently on a compressed schedule for the reconstruction of 12 bridges and over 30 miles of roadway overlays and improvements. Ms. Mates conducted all historical architectural surveys for historic-era bridges and roads and prepared documentation and evaluations for Oklahoma State Historic Preservation review.

**Principal Investigator, Historic Resources Survey for the US Highway, Oklahoma Department of Transportation, Choctaw, OK.** Ms. Mates was the principal historian on the project, which consisted of reconstructing a three-mile portion of Interstate 40 in eastern Oklahoma City. Ms. Mates researched archives, conducted all historical architectural surveys on historic-age buildings and structures (bridges, residences, and commercial buildings) within the project area, and prepared structure record identification forms and the report. Ms. Mates also assessed impacts on cultural and Section 4(f) resources and advised the client on possible resource impacts and mitigations. 2008.

**Oklahoma Department of Transportation US Highway 70 Categorical Exclusion, Principal Investigator/Historian, Oklahoma Department of Transportation, Durant, OK.** ODOT proposed replacing the 432-foot-long, 36-foot-wide, US Highway 70 bridge spanning the Union Pacific Railroad and making necessary roadway and intersection improvements nearby. Ms. Mates inventoried and recorded all historic-age architectural resources, researched historic records at the Oklahoma Archaeological Survey and State Historic Preservation Office, researched archives and literature, reviewed national and state registers, examined historic maps, conduct a field survey, documented structures older than 45 years that retained historic integrity, and evaluated those structures for National Register eligibility.

Environmental Impact Statement for leasing specific lands with geothermal resources on BLM- and FS-administered lands in the western United States, including Alaska. 2008.

**Moccasin Penstocks Relining and Replacement Project, Peer Reviewer/Cultural Resources Specialist, San Francisco Public Utilities Commission, Moccasin, CA.** The San Francisco PUC proposed to recoat, reline, and possibly replace portions of the Moccasin Penstocks, which consist of four pipes delivering water from Priest Reservoir to the Moccasin Powerhouse (part of the Hetch Hetchy Water Delivery System). Ms. Mates assisted the subconsulting historian in the architectural survey of the penstocks and the project area and peer reviewed the subsequent findings report to the SFPUC. Ms. Mates also assisted in the pedestrian archaeological survey of the project area and access routes and relocated historic railroad ties associated with the historic Hetch Hetchy Railroad. She made preliminary suggestions to the client on necessary cultural resources studies that would be needed to comply with CEQA. 2007.

**Levee Maintenance on Brannan Island, Historian, Brannan-Andrus Levee Maintenance District/ACOE Sacramento, California.** Ms. Mates surveyed and evaluated a sunken barge, an unexpected discovery, at Brannan-Andrus Levee. The purpose of this project was to restore the levee to the original level of protection of lives and property along Highway 160. The emergency levee repair work is necessary to prevent or reduce risks and to prevent possible severe economic losses. Ms. Mates researched maritime activities in the area and prepared all documentation for SHPO, which concurred with her findings. 2007.

**ADDITIONAL WORK EXPERIENCE**

**Historical Resources Inventory and Evaluation, Santa Clara Valley Water District Historic Dams, Santa Clara Valley Water District, Santa Clara County, CA.** Ms. Mates inventoried and evaluated eleven dams for inclusion on the California Register of Historical Resources. She evaluated dams and their appurtenances as a historic district and for their individual significance. (JRP Historical Consulting, LLC, 2006.)

**Historical Resource Evaluation Report: Highway 101/Brisco Road Interchange, San Luis Obispo County, CA.** Historian on project to construct interchange. Inventoried and evaluated historic-era resources, including a motel court, residences, commercial buildings, and a cemetery. 2005-2006.

**Peninsula Corridor Joint Powers Board 4-Track Project, Staff Historian, Peninsula Corridor Joint Powers Board, San Mateo County, CA.** Historian on project upgrading tracks and local train stations. Inventoried and evaluated historic-era resources. (JRP Historical, LLC, 2005.)

**Caltrans Statewide Bridge Inventory, Staff Historian, Caltrans, CA.** Statewide Inventory of all pre-1960 metal truss concrete arch, suspension and timber truss bridges as part of an update to statewide historic bridge inventory. (JRP Historical Consulting, LLC, 2003.)

**Historic American Buildings Survey Documentation for the Family Service Laundry/Peninsula Creamery Building, Palo Alto, CA.** Lead historian and author for report and HABS documentation to fulfill historic preservation mitigation requirements imposed by City of Palo Alto for loss of historic building at 800 High Street. (JRP Historical Consulting, LLC.)
Historical Architectural Evaluation of Camp Swig, Saratoga, CA. Inventory and evaluation of 22 buildings on Camp Swig, a summer camp and retreat in Saratoga. Evaluated the resources under the National Register, California Register, and Santa Clara County Historic Resources Inventory criteria. (JRP Historical Consulting, LLC.)

Historic Context Report, Roadway Bridges in California, 1936-1959, and Statewide Inventory and Evaluation of all pre-1960 Metal Truss, Moveable, and Steel Arch Bridges, Caltrans, CA. Historic context author and contributor for statewide historic bridge inventory. (JRP Historical Consulting, LLC.)

Other projects with JRP Historical Consulting, LLC:
- Historic Architectural Survey Report: Highway 25 Alternatives, Hollister, Staff Historian, Caltrans, Hollister, CA;
- Historic Resources Evaluation Report for Proposed Improvements to Interstate 680-State Route 4 Interchange, Staff Historian, Caltrans, Contra Costa County, CA;
- Historic Architectural Survey Report for Highway 4 Widening Project, Contra Costa County, Research Assistant, Caltrans, Antioch, CA; and
- Historic Architectural Survey Report for Silicon Valley Rapid Transit Corridor MIS/EIS/EIR; Staff Historian, Silicon Valley Rapid Transit, San Jose, CA.

OTHER NEPA/CEQA EXPERIENCE


Alice Griffith Environmental Impact Statement, Resource Author, Mayor’s Office of Housing, San Francisco, California. Tetra Tech is preparing an Environmental Impact Statement for redevelopment of the Alice Griffith public housing site. Ms. Mates is analyzing the project activities on visual and aesthetic resources within the project area and is authoring the visual resources section of the EIS. The project is in compliance with the NEPA regulation and the Department of Housing and Urban Development. 2010-Present.

Desert Sunlight Solar Farm EIS, Recreation Author, First Solar, Riverside County, California. Ms. Mates provided recreation analysis for the recreation activities section of the EIS that addresses the effects of construction and operation of a 550-megawatt solar farm on over 4,000 acres in the Chuckwalla Valley managed by the Bureau of Land Management - Palm Springs South Coast Field Office. The project also includes a 12-mile transmission line and an electrical substation, to be operated by Southern California Edison. The EIS is being written to also address requirements of the California Environmental Quality Act, with the California Public Utilities Commission as the CEQA lead agency. 2010.
Nimbus Hatchery Fish Passage Project EIS/EIR, Visual Resources/Aesthetics Author and Contributor, Bureau of Reclamation, Folsom, CA. Tetra Tech is preparing an Environmental Impact Study/Environmental Impact Report for the Nimbus Hatchery Fish Passage Project. This facility is on the American River, approximately a quarter mile downstream of Nimbus Dam. The hatchery was built to compensate for Chinook salmon and Central Valley steelhead spawning areas inundated by the construction of Nimbus Dam. Ms. Mates analyzed the proposed project and the many alternatives on the aesthetics and visual character of the project area and its surroundings and is preparing the aesthetics section of the joint document. 2009-2010.

Pier 80 Soil Investigation Work Plan, Land Use History Author, San Francisco, CA. Tetra Tech prepared a Subsurface Investigation Work Plan on behalf of the City and County of San Francisco Department of Public Works and the Port of San Francisco for the proposed Pier 80 Security Lighting project. Ms. Mates researched and wrote the site usage history to address the requirements of Article 22A of the San Francisco Public Health Code (Maher Ordinance). Under this ordinance, proponents must assess, investigate, and if necessary, remediate environmental conditions at a proposed development site to protect construction worker safety.

Altamont Windfarm, Environmental Impact Report, California, Vasco Wind LLC/Florida Power and Light, Contributing Author, Contra Costa County, CA. Vasco Wind, LLC, proposed replacing approximately 400 aging turbines with a small number of larger turbines. The proposed project, primarily along the Vasco Ridge within the Coast Ranges, would entail decommissioning old turbines and associated transmission lines and infrastructure, installing 40 new wind-generating turbines, and restoring portions of the land to its original natural character. The project would also include an interconnecting road system, underground and overhead electrical transmission lines to collect energy from the turbines, and a substation to transmit energy from the project to the regional power grid. Ms. Mates conducted research and wrote the recreation section of the EIR. 2008.

United States Postal Service Site Disposals Phase I Environmental Assessment, Principal Investigator, Saratoga, CA. Ms. Mates was the principal investigator and project manager for a property that the US Postal Service was selling. The land was considered a disposal site and had to be assessed for the possibility of environmental contaminants. Ms. Mates performed the facilities environmental checklist survey and the real estate disposal survey required by the USPS. In addition, she searched environmental databases and wrote the final deliverable on both disposal sites. 2008

PROFESSIONAL MEMBERSHIPS
California Preservation Foundation
National Trust for Historic Preservation

ADDITIONAL EXPERIENCE
MS Excel, MS Word, MS Outlook, MS Access,

EMPLOYMENT HISTORY
2007 – Present Historian/Architectural Historian, Tetra Tech, Inc., Oakland
2001- 2006 Staff Historian, JRP Historical Consulting, LLC, Davis
Lynn Compas, MA, RPA
Senior Archaeologist

SUMMARY OF EXPERIENCE

Lynn Compas has more than 20 years of experience managing every size cultural resource project in Washington and California. She received her M.A. in Cultural Resource Management from Sonoma State University in 1998 and she has conducted prehistoric and historic cultural resource studies in mountain, desert and coastal areas in both the Pacific Northwest and Northern California. This includes several years of experience working on hydroelectric, gas and transmission projects in the Cascades, Sierra Nevada and Central California. Her experience includes compiling cultural resource assessments, historic property management plans, mitigation plans and environmental assessments for organizations such as the National Park Service and Pacific Gas and Electric Company. Ms. Compas joined HRA in 2009.

EDUCATION

M.A. Cultural Resources Management, 1998, Sonoma State University, Rohnert Park, California
B.S. Anthropology; Geology Minor, 1990, University of New Mexico, Albuquerque

PROFESSIONAL REGISTRATION AND CERTIFICATIONS

Register of Professional Archaeologists (RPA No. 16414)

RELEVANT EXPERIENCE

Archaeological Inventory for Puget Sound Energy’s (PSE) Cottage Brook-Mooreland 115 Kv Pole Replacement, King County, Washington
Project Manager for background research, field investigation, report preparation and SEPA Checklist Item 13 preparation for transmission line and pole placement in a project area roughly 6.6 mile in length, with a width of 25 feet.

Cultural Resources Services for Puget Sound Energy’s Christopher to 51st Avenue South Transmission Line, King County, Washington
Project Manager for cultural resources services associated with construction of a new transmission line in Auburn, Washignton.
Cowlitz River Hydropower Support Services, City of Tacoma, Tacoma Public Utilities, Lewis County, Washington
- Project Manager for implementation of FERC License Requirements for the Cowlitz River Hydroelectric Project.

Cushman Historic Preservation Services, Mason County, Washington
- Project Archaeologist responsible for writing the compliance and archaeological portions of the Historic Properties Management Plan for the Cushman Hydroelectric Project.

Puget Sound Energy Baker River Hydroelectric Cultural Resources Services
- Associate Archaeologist for continuing work that includes general historic preservation consulting services; development of a Mitigation Plan for effects to historic properties; developing Protection, Mitigation and Enhancement (PME) measures; revising and finalizing Maintenance Guidelines; developing appropriate Interpretation and Education measures for public outreach; and continuing to provide resources for assessment and evaluation of Historic Districts at the Project.

Tuolumne Wild and Scenic River Comprehensive Management Plan/EIS, Yosemite Valley, California
- Project Manager for cultural resources management contributions to the Tuolumne Wild and Scenic River Comprehensive Management Plan/EIS, including finalizing the affected environment and impact analyses for Archeological Resources and Historic Sites, Buildings, and Cultural Landscapes.

U.S. Air Force Mukilteo Section 106 Tribal Relations Consultation
- Project Archaeologist for assisting the U.S. Air Force with Native American consultation and artifact curation in preparation for the transfer of the former Mukilteo Tank Farm to the Port of Everett.

Cultural Resource Assessment for US Army Corps of Engineers Modification to Section 205 Flood Control Project, Elwha River, Clallam County, Washington
- Project Manager for cultural resources survey of the Elwha River Levee and areas to be modified by removal of two upstream dams and installation of flood control equipment.

Curry Village Rockfall Hazard Zone Structure Project Environmental Assessment, Yosemite Valley, California
- Project Archaeologist for cultural resources sections of a NEPA EA addressing proposed changes to hard-sided cabins and tent cabins in the Camp Curry Historic District in Yosemite Valley required due to a revision of the extent of potential rockslide danger that will lead to moving or removing some of the cabins in the District.

Comprehensive Rehabilitation Plan for the Ahwahnee Hotel National Historic Landmark in Yosemite National Park, California
- Project Archaeologist for cultural resources contributions to a NEPA for the rehabilitation of the historic hotel in Yosemite National Park, taking into account the historical aspects of the hotel and its landscape as well as potential impacts to archaeological sites.

McCloud-Pit Relicensing Project, Shasta County, California. Section 106 Compliance. Integrated Licensing Process. Project Manager. Served as project lead during the early portion of the relicensing. Provided cultural resources guidance and reviewed consultant submittals and recommendations, preparation of study plans, and agency and Tribal consultation. 2007.

Table Mountain—Rio Oso Transmission Line Upgrades. CEQA Compliance. Project Manager. Coordinated with consulting firm and project team to managed the cultural resource field work and reporting for the replacement and upgrade of Transmission Towers along the Table Mountain—Rio Oso Transmission Line. 2007.

Upper North Fork Feather River 60kV Pole Replacement. Section 106 Compliance. Project Manager. Responsible for conducted archaeological field surveys and evaluation of a historic mine for the replacement of approximately 20 poles during Phase I, including report and FOE preparation and USFS and SHPO consultation. During Phase II coordinated with and oversaw consultant contract and fieldwork for the replacement of approximately 60 poles. Responsible for report review, USFS and SHPO consultation. 2006-2007.

Tunnel Timber Sale, Shasta County, California. California Forest Practice Rules Compliance. Project Manager. Responsibilities included coordinating with PG&E foresters, conducting cultural resource surveys, recording and flagging archaeological sites for avoidance, document preparation and coordination with Native American Monitors. Human remains were discovered near the project area during timber operations and Ms. Compas was responsible for coordination with state agencies and tribal members for recovery and re-interment of the remains as well as document preparation. 2006-2007.

Chili Bar Hydroelectric Project Relicensing, Placer County, California. Section 106 Compliance. Project Manager. Conducted all cultural resource inventories and historic archaeological site evaluations necessary for compliance with Section 106 for the FERC relicensing. Responsibilities included agency and tribal consultation, preparation of FOE documentation, draft and final reports, and license application documents. 2005-2007.

Hat Creek Hydroelectric Project, License Implementation, Shasta County, California. Section 106 Compliance. Project Manager. Carried out various short- and long-term cultural resource projects required for implementation of Hat Creek Hydroelectric Project FERC License. Projects included long term monitoring with Pit River Tribal Monitors, erosion control measures, development and implementation of a sensitive resource area sign plan, and development of an interpretive panel. All projects were carried out in consultation with the Pit River Tribe. Responsible for report and FOE preparation as well as USFS and SHPO consultation. 2003-2007.

Pit 3, 4 and 5 Hydroelectric Project, License Implementation and FERC Relicensing, Shasta County, California. Section 106 Compliance. Project Manager. Carried out various short- and long-term cultural resource projects required for implementation of Pit 3, 4, 5 Hydroelectric Project FERC License. Projects included long-term monitoring with Pit River Tribal Monitors, erosion control measures, development and implementation of a sensitive resource area sign plan. Also responsible for finalizing Historic Properties Management Plan in conjunction with application for renewal of FERC license. All projects were carried out in consultation with the

Pit 3, 4, 5 Sign Plan, Shasta County, California. Section 106 Compliance. Senior Archaeologist. Assisted with the placement of resource protection and sensitive area signs to help the client avoid impacts to cultural resources within the FERC license boundaries of the Pit 3, 4 and 5 Hydroelectric Project in Northern California. For Pacific Gas and Electric Company. 2008.

Pit 1 Hydroelectric Project, License Implementation and FERC Relicensing, Shasta County, California. Section 106 Compliance. Project Manager. Carried out various short- and long-term cultural resource projects required for implementation of Pit 1 Hydroelectric Project FERC License. Projects included conducting archaeological site visits and site record updates, and coordinating with the Pit River Tribal Monitors. Oversaw consultants’ work on a prehistoric site evaluation and data recovery. Responsible for preparing final Historic Properties Management Plan in conjunction with application for renewal of FERC license. All projects were carried out in consultation with the Pit River Tribe. Responsible for report and FOE preparation and USFS and SHPO consultation. 2003-2007.

PAR Environmental Services, Incorporated, Sacramento, California. Senior Archaeologist. 1999-2004


POE Hydroelectric Relicensing Project, Plumas County, California. Section 106 Compliance. Project Manager. Directed Phase I and II archaeological studies for the POE relicensing project. Coordinated with client and prepared Phase I and II archaeological reports and served as report quality control manager for architectural evaluations. Assisted with USFS consultation. 1999.
PROFESSIONAL TRAINING


Archaeological Field School, Mogollon Mountains, New Mexico. Sponsored by University of New Mexico, Albuquerque. 1987 and 1988.

Consulting with the California SHPO. Workshop, sponsored by the Society for California Archaeology and CALTRANS. 2005.

Reaching and Writing Agreements Under Section 106. Course Sponsored by SWCA, Sacramento, California. 2006.

Identification and Management of Traditional Cultural Properties. Course presented by the National Preservation Institute, Seattle, Washington. 2007.

APPENDIX H

ARCHAEOLOGICAL INVENTORY RESULTS (MAPS AND DPR FORMS)
[CONFIDENTIAL]
APPENDIX I

ARCHITECTURAL INVENTORY RESULTS (MAPS AND DPR FORMS)
P-52-002474
**State of California — The Resources Agency**

**DEPARTMENT OF PARKS AND RECREATION**

**PRIMARY RECORD**

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**Resource Name or #:** P-52-0002474/ LLHEP-JF-03

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**P1. Other Identifier:** Ponderosa Way

**P2. Location:** ☐ Not for Publication  ☑ Unrestricted

- **a. County:** Tehama

- **b. USGS 7.5' Quad:** Manton Date: 1985, revised 2012
  - T 30N; R 2E; W ½ of Sec 31,  T29N; R2E; NE ¼ of NE
  - ¼ of Sec 2, All of Sec 1, SW ¼ of SW ¼ of Sec 6, NW ¼ of NW ¼ of Sec 7; M.D.B.M.

- **d. UTM:** Zone: 10; Newly recorded segment: Start (north end) 600,849.58 mE/4,475,053.30, End (south end) 601,978.38 mE/4,471,735.31
  - Previously recorded segment: USGS 7.5 Lyonsville, T29N, R2E, S15, start: 606636.34 m E, 4468533.39 m N end: 606790.27 m E, 4468567.59 m N

- **e. Other Locational Data:** Elevation: P3a. Description:
  - (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
  - Tetra Tech identified a segment of Ponderosa Way within the northwestern portion of the Lassen Lodge Hydroelectric Project, near Manton, California. An approximate 0.25 mile segment of P-52-0002472 (Ponderosa Way) was previously recorded in 1994 (Thrush 1994) and is several miles south from this newly recorded segment. The NEIC requested we use the same primary number when updating this newly recorded segment. In addition, the previous recording is on an older DPR primary record form, which has since changed. This form serves as an update for both recorded segments. This newly recorded segment of P-52-002474 consists of a 3 mile graded dirt road that is currently maintained and used by PG&E and SPI as an access road and by the general public. Currently and historically illustrated as Ponderosa Way, this recorded winding road segment extends south at the intersection of Forward Road near Manton, California, in a southwesterly direction for 1 mile. The road continues south in a southeastern direction for two miles passing Bluff Springs and Soap Creek and continues south outside the access road APE toward Initial Gulch. This recorded road segment varies in width from 12 feet to 17 feet, depending on the road cut and slope. The road is in good condition and has been improved in various areas to accommodate slope and modern use. The road is graded and red cinder fill is evident in some areas. There are three concrete bridge/culvert crossings along this recorded segment, one near Bluff Springs and two at Soap Creek.

- **P3b. Resource Attributes:** (List attributes and codes) AH7 (roads/trails/railroad grades)

- **P4. Resources Present:** ☐ Building  ☑ Structure  ☐ Object  ☐ Site  ☑ District  ☐ Element of District  ☐ Other (Isolates, etc.)

- **P5b. Description of Photo:**
  - (View, date, accession #)
  - DSC_2849, 8/20/13, Ponderosa Way southeast segment facing northeast.

- **P6. Date Constructed/Age and Sources:**
  - ☑ Historic
  - ☐ Prehistoric  ☐ Both
  - Circa 1939

- **P7. Owner and Address:**
  - Private and Sierra Pacific Industries
  - P.O. Box 496028
  - Redding, CA 96049-6028

- **P8. Recorded by:**
  - (Name, affiliation, and address)
  - Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel
  - Tetra Tech, Inc., EC
  - 2969 Prospect Park Drive, #100
  - Rancho Cordova, CA 95670

- **P9. Date Recorded:** 8/20/2013

- **P10. Survey Type:** (Describe)

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*Intensive Survey*

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**Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project FERC Project No. 12496 Tehama County, California**

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*Attachments:* ☐ NONE  ☐ Location Map  ☐ Sketch Map  ☐ Continuation Sheet  ☐ Building, Structure, and Object Record

- ☐ Archaeological Record  ☐ District Record  ☐ Linear Feature Record  ☐ Milling Station Record  ☐ Rock Art Record

- ☐ Artifact Record  ☐ Photograph Record  ☐ Other (List):

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*DPR 523A (1/95)*

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*Required information*
L1. Historic and/or Common Name: Ponderosa Way

L2a. Portion Described: □ Entire Resource □ Segment □ Point Observation

Designation:

b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map)

This updated recorded segment of Ponderosa Way Start: 602037.90 mE / 4471459.81 mN
Ponderosa Way End: 600843.75 mE / 4475066.13 mN

L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)

This newly recorded segment of P-52-002474 consist of a 3 mile graded dirt road. The dirt road is made of subgrade soil and consists of a silty sand with small angular gravels, with intermittent areas of red cinder aggregate fill (typically near creek crossings). The road is maintained and used by the general public and PG&E and SPI as an access road. See BSO record for additional details.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)

a. Top Width: varies from 12 feet to 17 feet
b. Bottom Width: same
c. Height or Depth: n/a
d. Length of Segment: 3 miles

L5. Associated Resources: None

L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)

The natural setting takes place in a pine/oak transition mountain zone. The slope varies throughout the road. Disturbances are due to fires and cattle grazing.

L7. Integrity Considerations:

Good. See BSO Record

L8b. Description of Photo, Map, or Drawing (View, scale, etc.)

DSC_2848, Ponderosa Way southwest segment, view southwest


L10. Form Prepared by:

(Name, affiliation, and address)
Jenna Farrell, Julia Mates,
Erica Maier, Julia Carvajal,
Sydni Kitchel
Tetra Tech, Inc.
2969 Prospect Park Dr. Suite
100
Rancho Cordova, CA

L11. Date: 8/20/2013

DPR 523E (1/95)
**B1. Historic Name:** Ponderosa Way  
**B2. Common Name:** Ponderosa Way  
**B3. Original Use:** Road  
**B4. Present Use:** Road  

**B5. Architectural Style:**  
**B6. Construction History:** (Construction date, alterations, and date of alterations)  

Constructed in 1933

**B7. Moved?** ☑No ☐Yes ☐Unknown Date: Original Location: Yes

**B8. Related Features:** None.

**B9a. Architect:** Unknown  
**b. Builder:** Civilian Conservation Corps  

**B10. Significance:**  
**Theme:** Government Programs During the Great Depression  
**Area:** Tehama County  
**Period of Significance:** 1934  
**Property Type:** Road  
**Applicable Criteria:** Criterion A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The segments of Ponderosa Way that are the subject of this form appear to meet the criteria for listing in the National Register of Historic Places (NRHP) under Criterion A. The segments of the road have also been evaluated in accordance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code and these segments appear to meet significance criteria 1 as outlined in these guidelines. Therefore, the segments of Ponderosa Way appear to be eligible for listing in the California Register of Historical Resources (CRHR).

**B11. Additional Resource Attributes:** (List attributes and codes) None.

**B12. References:** Please see footnotes on Continuation Sheet

**B13. Remarks:**

**B14. Evaluator:** Kara Brunzell  
**Date of Evaluation:** 8/20/13

(Sketch Map with north arrow required.) See location map attached to this record.
B10 Significance (Continued)

History of Ponderosa Way

In 1929, the California Department of Forestry proposed a plan to create a continuous firebreak at the western edge of the Sierra Nevada. In the early 1930s, the Department began to prioritize the protection of valuable timber resources in mountainous regions. In keeping with this focus, the route for the firebreak was planned to roughly follow the line between chaparral and timber. It was intended as permanent fire defense for National Forest lands. Implementation became possible in 1933, when the federal government instituted the unemployment mitigation program that became known as the Civilian Conservation Corps (CCC) program. The largest project undertaken by the CCC in California was the construction of Ponderosa Way, also known as the Ponderosa Fire Break and Truck Trail. The route was planned to cover 768 miles, from the Shasta Bear lookout through Tehama County and south to the Kern County border near Bakersfield. The project was surveyed in 1933, and by May, 1934, 440 miles of the route had been completed. Where possible, the route followed existing roads and trails, which gave rise to its frequent and confusing name changes. Other sections required the use of jackhammers and dynamite to carve the roadbed out of bedrock. Ponderosa Way has been called “the longest invisible federal road in America.”

Despite the manpower and expense required to create the road, it has been neglected and poorly maintained over the years. As early as 1949, the USFS gave maintenance responsibility for some sections of Ponderosa Way to the California Division of Forestry. By the late 1960s, access to the portion of the road between Manton and Highway 36 was restricted due to property owners placing locked gates across the road. In 1969, residents of the Paynes Creek area submitted a petition to the Red Bluff City Council to open a gate across a portion of the road that went through city-owned property. Despite the lack of maintenance, many sections of it are still in use, particularly in Tehama County, where it is used both for transportation and a firebreak. In Tehama County, parcels adjacent to the road are owned by a combination of public and private entities. The stretch of Ponderosa Way immediately north of Highway 36 was closed to the public in the late 2000’s by a private gun club, which has installed a gate and allows only limited access.

Evaluation

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The section of Ponderosa Way adjacent to the project area appears to meet the criteria for listing in the NHRP and the CRHR because of its association with the Civilian Conservation Corps which was started during the Great Depression, as it was constructed according to a California Department of Forestry fire suppression plan using the federal CCC program during the Great Depression. The CCC as a government program worked to preserve and reforest forests and other elements of the natural landscape such as scenic and natural resources within the US. Between 1933 and 1942, federal workers constructed over a million miles of roads and trails, planted over 30 million trees, constructed more than 300 fire lookout towers, and installed 9,000 miles of telephone line in California. Construction of Ponderosa Way was the program’s signature accomplishment in the state. Because of this association, Ponderosa Way appears to be eligible for listing in the NRHP and CRHR under Criterion A and 1. Its location was chosen strategically in order to protect the valuable timber lands to the east from fires started in the foothill chaparral. The segment of the road adjacent to the project area was part of a planned 700 mile firebreak. In the years since its construction the road has been used for local transport as well as in fire-fighting efforts.

Ponderosa Way is not associated with important individuals significant to our past, and therefore does not appear eligible for the NHRP/CRHR under Criterion B/2.

The road does not embody distinctive characteristics of a type, period, or method of construction, is not the work of a master engineer, and it does not possess high engineering value and does not appear eligible for listing in the NRHP or the CRHR under Criterion C/3.

Ponderosa Way has been otherwise documented and is unlikely to be a principal source of important information under Criterion D/4.
<table>
<thead>
<tr>
<th>Resource Name or #</th>
<th>Recorded by</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC_2852 Ponderosa Way</td>
<td>Tetra Tech, Inc.</td>
<td>8/20/13</td>
<td>Site overview, view north-northeast, UTM: 4471843.01mN 601290.44mE</td>
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<tr>
<td>DSC_2851 Ponderosa Way</td>
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<td>Site overview, view south-southwest, mid-segment.</td>
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<tr>
<td>DSC_2857 Ponderosa Way</td>
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<td></td>
<td>#1: spillway/culvert/concrete bridge at Soap Creek (view east).</td>
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<tr>
<td>DSC_2869 Ponderosa Way</td>
<td></td>
<td></td>
<td>#2: spillway/culvert/concrete bridge, dry drainage of Soap Creek. (view east, UTM: 600605.20 mE/4472932.73 mN), Elevation 684 m.)</td>
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<tr>
<td>DSC_3116 Ponderosa Way</td>
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<td>Spillway/culvert/concrete bridge near Bluff Springs, note sediment covers surface of concrete, view west-northwest (UTM: 4,472,852.62 mN, 600,739.61 mE, Elevation 735 m.)</td>
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<td>Time</td>
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DPR 523I (1/95)
*Resource Name or #: P52-002427 UPDATE

*Map Name: Lyonsville, CA (20 ft Contour)  
*Scale: 1:24,000  
*Date of Map: 1985, revised 2012

NOTE: This location map was created by digitizing the previously recorded segment location map form (Thrush 1994)
P1. Other Identifier: State Highway 36 (SR 36)

*P2. Location: (Not for Publication) Unrestricted
   *a. County: Tehama
   *b. USGS 7.5' Quad: Lyonsville
   Date: 1985, revised 2012
   T 29N; R 3E; S ½ of Sec 21, NW ¼ of Sec 28, N ½ of Sec 29; M.D. B.M.
   c. Address:
   d. UTM: Zone: 10; East end: 614,646.28 mE/ 4,467,874.96 mN (GPS)
   West End: 612,074.52 mE/ 4,467,055.64 mN (G.P.S.)
   e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
LLHEP-JF-05 is a 2.25 mile road segment of that was originally part of the alignment of State Highway 36 (SR 36), but the segment is now on private land. The western end of this recorded segment is located where the old SR 36 route meets the current alignment of SR 36. This recorded segment continues east following the former alignment of SR 36 (currently named SPI Road 120 A, an off-shoot of Southern Pacific Industrie’s (SPI) A-line Road) and crosses a one lane concrete bridge that spans South Fork Battle Creek. The eastern end of this recorded segment is at the intersection of SR 36 and the SPI A-Line Road.
(See Continuation Sheet).

*P3b. Resource Attributes: (List attributes and codes)
AH7 (Road) , HP19 (bridge)

*P4. Resources Present:
   Building
   Structure
   Object
   Site
   District
   Element of District
   Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

*P5b. Description of Photo: (View, date, accession #)
DSC_2930, 8/21/13, Old Highway 36 facing west.

*P6. Date Constructed/Age and Sources: Historic 1910-1920s

*P7. Owner and Address:
Sierra Pacific Industries
P.O. Box 496028
Redding, CA 96049-6028

*P8. Recorded by: (Name, affiliation, and address)
Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel
Tetra Tech, Inc., EC
2969 Prospect Park Dr. Ste. 100
Rancho Cordova, CA 95670

*P9. Date Recorded: 8/20/2013

*P10. Survey Type: (Describe)
Intensive survey

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")
Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project FERC Project No. 12496 Tehama County, California

*Attachments: NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record Artifact Record Photograph Record Other (List):
L1. Historic and/or Common Name: State Route 36
L2a. Portion Described: □ Entire Resource  □ Segment  □ Point Observation  Designation:
b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map) USGS 7.5’ Quad: Lyonsville, Date: 1985, revised 2012  T 29N; R 3E ; S ½ of Sec 21, NW ¼ of Sec 28, N ½ of Sec 29; M.D. B.M., UTM: East end: 614,646.28 mE/ 4,467,874.96 mN (GPS), West End: 612,074.52 mE/ 4,467,055.64 mN (G.P.S.)

L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.) Southern Pacific Industries (SPI) Road 120-A was originally constructed as part of SR 36 but is now owned privately. The western end of this recorded segment is at the intersection of SPI Road 120-A and the current alignment of State Highway 36. This recorded segment continues east and is an off shoot of the main SPI A-line Road. The road crosses a one lane concrete bridge that spans South Fork Battle Creek. The eastern end of this recorded segment is at the intersection of the current alignment of SR 36 and the SPI A-Line Road. The road is made up of asphalt and gravel. No artifacts were observed.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)
a. Top Width: 18 feet  
b. Bottom Width: n/a  
c. Height or Depth: n/a  
d. Length of Segment: 2.25 mile

L5. Associated Resources:  
A concrete bridge crosses South Fork Battle Creek.

L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)  
The site is within a Pine and Oak forest within a mountainous terrain. Slopes vary from gradual to steep. This recorded segment is near South Fork Battle Creek.

L7. Integrity Considerations: good.

L8b. Description of Photo, Map, or Drawing (View, scale, etc.) DSC_2920, 8/21/13, former SR 36 at bridge facing southwest.

L8a. Photograph, Map or Drawing

L4e. Sketch of Cross-Section (include scale)  Facing: East/SE
18 feet width (not to scale)

L9. Remarks:  
None

L10. Form Prepared by:  
(Name, affiliation, and address)  
Julie Mates, Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel  
Tetra Tech, Inc., EC  
2969 Prospect Park Dr. Ste. 100  
Rancho Cordova, CA 95670

L11. Date: 8/20/2013
B1. Historic Name: SR 36
B2. Common Name: SPI Road 120-A
B3. Original Use: Road
B4. Present Use: Road

*B5. Architectural Style:

*B6. Construction History: LLHEP-JF-05 was initially constructed as an unpaved wagon road in the 1860s. In 1913, SR 36 was constructed along the same general route. By the 1920s, a new alignment for SR 36 (currently used today) was constructed south of this recorded segment.

*B7. Moved? ☒ No ☐ Yes ☐ Unknown

*B8. Related Features:
There is a reinforced concrete bridge that spans South Fork Battle Creek at UTM: 613408.55 mE, 4467591.74 mN (GPS). The bridge is a reinforced concrete deck crossing that carries two lanes and has board-formed concrete winged walls. The bridge measures 68 feet 7 inches in length and 21 feet and 9 inches wide. A survey benchmark is located on the southwest edge of the bridge and is inscribed “U.S. Coast & Geodetic Survey Benchmark/Elv. 4,257.741 Feet/Above Mean Sea Level/$250.00 fine or imprisonment for disrupting this mark/C138 [over] 1932.”

B9a. Architect: Unknown
b. Builder: Unknown

*B10. Significance:

*Area:

Period of Significance: N/A
Property Type: N/A
Applicable Criteria: N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The former segment of SR 36, currently SPI Road 120-A does not appear to meet the criteria for listing in the National Register of Historic Places (NRHP). Furthermore, this segment of the road has been evaluated in accordance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code and it does not meet the significance criteria as outlined in these guidelines. Therefore, the road segment is not eligible for listing in the California Register of Historical Resources (CRHR). (See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References: See footnotes and References B12 continuation sheet

B13. Remarks: Bridge Measures 68 feet and 7 inches long, and 21 feet and 9 inches wide.

*B14. Evaluator: Julia Mates

*Date of Evaluation: 8/20/2013

(Sketch Map with north arrow required.)

Also see location map
Resource Name or # (Assigned by recorder): LLHEP-JF-05

Camera Format: Digital Nikon DX
Film Type and Speed: 18-55mm
Negatives Kept at: Digital file at Tetra Tech, Rancho Cordova

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<td>LLHEP-JF-05, facing west from east project area</td>
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<td>LLHEP-JF-05, intersection</td>
<td>SE</td>
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</table>
P3a. Description (continued)
LLHEP-JF-05 was initially constructed as an unpaved wagon road in the 1860s. This road was built from Red Bluff to Battle Creek Meadows, over Morgan Summit, across Mill Creek and through Tyler Meadows, now known as Childs Meadows (Serr, no date). In 1913, SR 36 was constructed along the same general route. By the 1920s, a new alignment for SR 36 (currently used today) was constructed south of this recorded segment. Currently, the road is used by SPI for access to the property and logging activities. The bridge that is part of this road segment does not contain a bridge number or date stamp. A US Coast and Geodetic Survey Bench Mark C138 is located on the bridge with a date of 1932 (Photograph 2). The rails of the bridge are also of reinforced concrete and in some places the concrete is missing or broken and the rebar is corroded (Photograph 3). The bridge’s deck has been surfaced with asphalt (Photograph 4). A crossing at this location first appears on historic maps in 1926.

B10. Significance (continued)
Historic Context

Roads in East Tehama County

Early transportation routes in the 1850s in Tehama County were wagons roads and stage coach lines, which made travel from Red Bluff to various Sacramento River communities possible. By the 1870s railroads lines were established in the county and used to transport passengers and goods, however local roads were still used, especially with popularity of the automobile, beginning in the 1910s. During the late 1890s in California, the state highway system was formed and the State Bureau of Highways recommended a highway constructed from Sacramento to Red Bluff (Hardwick and Holtgrieve 1996). Most of these early roads were not paved with a hard surface but instead were graded and rough until 1916 and 1917, when roads in Tehama County were paved (Kraft and Woodrum 2005).

The history of roads in eastern Tehama County begins with the County Wagon Road, constructed in 1863. This road was built from Red Bluff to Battle Creek Meadows, over Morgan Summit, across Mill Creek and through Tyler Meadows, now known as Childs Meadows (Serr, no date). The construction of this road allowed campers and vacationers to escape the summer heat to the mountainous area of east Tehama County. In 1907, construction of a state highway given Legislative Route Number (LRN) 36 was constructed from present-day Oroville southeast to what is Collins Lake (CA highways 2013). By 1913, LRN 36 was extended further east-west, following the alignment of the Old County Wagon Road. In 1921, LRN 36 was paved and its general alignment followed the present-day alignment of Highway 36E as it runs adjacent to Lassen Lodge at Paynes Creek. By 1926 LRN 36 appears on historic maps having been extended through the eastern portion of Tehama County (Luning, 1926.) In the 1920s, 1935 and 1941, SR 36 appears to have been located slightly to the north of its current alignment in places. SR 36 was completed in 1937 and has undergone improvements.

The SR 36 alignment appears to follow routes listed as State Highway 21 from Red Bluff to Mineral in 1934 (Ramsey 1934). Prior to the current highway naming conventions before 1963, portions of SR 36 through Tehama County were labeled LRN 3 and LRN 35. After 1964, segments of highways were combined and naming conventions were changed. Regardless of the condition of the road, during its wagon road period as well as its paved highway alterations, the road was crucial for travelers vacationing in the mountainous areas of east Tehama County.
Evaluation

The following provides an evaluation of the segment of former SR 36, currently named SPI Road 120-A as an individual historical architectural resource under the NRHP and CRHR criteria.

B10. Significance (continued)

The segment of SPI 120-A adjacent to the project area appears to meet the criteria for listing in the NHRP/CRHR because it is associated with events significant to local history (Criterion A/1). It was initially constructed as an unpaved wagon road in the 1860s. During the twentieth century California SR 36 was constructed along the same general route. The route in the vicinity of the project area was important to Tehama County history, as it allowed for the development of the local resort business, both in the project area and farther east on Mount Lassen. SR 36 was also the main route for the export of timber harvest in the area as well as locally grown agricultural products.

This segment of SPI Road 120-A is not associated with important individuals significant to our past, and is therefore not eligible for the NHRP/CRHR under Criterion B/2.

This segment of SPI Road 120-A does not embody a distinctive characteristic of type, period, or method of construction, is not the work of a master engineer, nor does it possess high engineering value. The bridge along SPI Road 120-A is a typical example of reinforced concrete deck bridge, a common type of bridge constructed to carry roadways over water. The road lacks historical significance and therefore is not eligible for listing in the NRHP or on the CRHR under Criterion C or 3.

SPI Road 120-A has been otherwise documented and is unlikely to be a principal source of important information under Criterion D/4.

Eligibility for listing on either the NRHP rests on significance and integrity. A property must have both factors to be considered eligible. Loss of integrity, if sufficiently great, would overwhelm the historical significance of a resource and render it ineligible. Although SPI 120-A has been paved and otherwise maintained over the years, the segment evaluated for this form retains its integrity as a historic highway. Its location, setting, design, materials, workmanship, feeling, and association have changed only in the ways typical of highways that continue in use. Therefore the resource is eligible for inclusion in the NRHP and on the CRHR.
P5b. Photographs (Continued):

DSC_2931: terminal, west end facing east.

DSC_2934: intersection with bridge facing northeast.

DSC_2922: South Fork Battle Creek SR 36 bridge, facing northeast.

DSC_2927: cadastral detail.

*B12. References (Continued):

Hardwick, Susan W. and Donald G. Holtgrieve


Kraft, Jarith, and Barbara Woodrum

2005 Historical Overview of the Tehama-Shasta Bend District, California. Cultural Resources Publications

History

Operations map of the Sierra Flume Lumber Company and others who first put Sierra Pine on the world market 1870-1907 /carefully compiled from official surveys by W.H. Hutchinson, 1956. Website: http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2573.JPG &template=mapsSIDsearch&catalog=catMaps.
Denny's pocket map of Tehama County, California compiled from latest official and private data by Edward Denny and Company. 1913. Website: 
http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2495.JPG &template=mapsSIDsearch&catalog=catMaps.

Official map of the County of Tehama, California carefully compiled from actual surveys by W.F. Luning, County Surveyor. 1903. Website: 
http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2497.JPG &template=mapsSIDsearch&catalog=catMaps.

Official map of the County of Tehama, California carefully compiled from actual surveys by W.F. Luning, County Surveyor. 1926. Website: 
http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2503.JPG &template=mapsSIDsearch&catalog=catMaps.

Map of Lassen National Forest, California. U.S. Dept. of Agriculture, Forest Service. 1926. Website: 
http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2189.JPG &template=mapsSIDsearch&catalog=catMaps.

California Highways, Routes 33 to 40, website: http://www.cahighways.org/033-040.html
*Map Name: Lyonsville, CA (20 ft Contour)  
*Scale: 1:24,000  
*Date of Map: 1985, revised 2012
P1. Other Identifier: Lassen Lodge

P2. Location: ☐ Not for Publication ☑ Unrestricted
   and (P2b and P2c or P2d. Attach a Location Map as necessary.)
   ☑ a. County: Tehama
   ☑ b. USGS 7.5' Quad: USGS Lyonsville Date: 2013 T 29N ; R 2E ; NW1/4 of SE1/4 of SE1/4, of Sec 23;
   M.D. B.M.
   ☑ c. Address: 35350 Highway 36 E City: Payne's Creek Zip: 96075
   ☑ d. UTM: Zone: 10 ; 609519.56mE/ 4466921.35mN (G.P.S.) Datum
   e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:
      Parcel Numbers: 013-190-08; 013-170-24; 013-190-01

P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Lassen Lodge at Paynes Creek is located at 35350 Highway 36 in Tehama County. Four buildings front the highway along its north side, just west of Tramway Road. Another two buildings associated with the lodge are located to the northeast of the highway. Together, there are six buildings that are the subject of this form. (See continuation sheet)

P3b. Resource Attributes: (List attributes and codes) HP5: Hotel/Motel

P4. Resources Present: ☑ Building ☑ Structure ☑ Object ☑ Site ☑ District ☑ Element of District ☑ Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo: (View, date, accession #)

P6. Date Constructed/Age and Sources: ☑ Historic ☑ Prehistoric ☑ Both
   Circa 1930/historic maps

P7. Owner and Address: Current private owner unknown
   35350 Highway 36 E
   Payne’s Creek, CA 96075

P8. Recorded by: (Name, affiliation, and address)
   Julia Mates, Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel
   Tetra Tech, Inc., EC 2969 Prospect Park Dr. Ste. 100
   Rancho Cordova, CA 95670

P9. Date Recorded: August 21, 2013

P10. Survey Type: (Describe) Intensive Survey

P11. Report Citation: (Cite survey report and other sources, or enter "none.") Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project FERC Project No. 12496 Tehama County, California

*Attachments: ☑ NONE ☑ Location Map ☑ Sketch Map ☑ Continuation Sheet ☑ Building, Structure, and Object Record ☑ Archaeological Record ☑ District Record ☑ Linear Feature Record ☑ Milling Station Record ☑ Rock Art Record ☑ Artifact Record ☑ Photograph Record ☑ Other (List):
B1. Historic Name: Jigg’s Station; Lassen Camp; Lassen Lodge
B2. Common Name: Lassen Lodge
B3. Original Use: Lodge, Gas Station, Cabins
B4. Present Use: Vacant

*B5. Architectural Style: Vernacular
*B6. Construction History: Gas station constructed circa 1930s; lodge constructed circa late 1930s, three other cabins constructed circa 1950s; gas station demolished or heavily altered to a cabin, date unknown.

*B7. Moved? ☐ No ☐ Yes ☛ Unknown Date: _____________ Original Location: _____________

*B8. Related Features: 


*B10. Significance: Theme N/A Area N/A Applicable Criteria N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The six buildings at 35350 Highway 36 that are the subject of this form and are part of Lassen Lodge at Paynes Creek, do not appear to meet the criteria for listing in the National Register of Historic Places (NRHP) as individual properties. Furthermore, the buildings have been evaluated in accordance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code and they do not meet the significance criteria as outlined in these guidelines. Therefore, the buildings are not eligible for listing in the California Register of Historical Resources (CRHR). (See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References: See footnotes and continuation sheet

B13. Remarks:

*B14. Evaluator: Julia Mates

*Date of Evaluation: August 22, 2013

Camera Format: Digital Nikon DX Lens Size: 35mm
Film Type and Speed: 18-55mm Negatives Kept at: Digital file at Tetra Tech, Rancho Cordova

(This space reserved for official comments.)

(Sketch Map with north arrow required.)
Building A (UTM: 609550.13mE/4466928.79mN), the Lassen Lodge building, is located adjacent to SR 36. It is one-and-a-half story, rectangular in plan, and topped with a side-gabled roof (See Photograph 2). The vernacular building lacks ornamentation and does not express any particular architectural style. The building is clad in wood clapboard siding. The roof is corrugated metal with exposed rafter tails. Fenestration consists of original multiple light wood sashes. The front façade, which faces SR 36, is dominated by a partial integral porch that stretches across all but the west end of the elevation. It is supported by plain square posts. The three primary entrances to the building are sheltered by the front porch, and fitted with partially glazed wood panel doors. The rear of the building features a shed-roofed porch addition (Photograph 3). It shelters a secondary entrance, which is also fitted with a partially glazed wood panel door. The building rests on a foundation of rough-cut stone laid without courses (Photograph 4).

Building B (UTM: 609522.92mE/4466926.92mN), the Gas Station building, is located east of the Lassen Lodge building and adjacent to SR 36. It is single story and cross-gabled, with a T-shaped plan (Photograph 5). The vernacular building lacks ornamentation and does not express any particular architectural style. It is clad in wood clapboard siding. The roof is corrugated metal with exposed rafter tails. Fenestration consists of multi-light, vinyl replacement windows. The primary façade, which faces SR 36, is dominated by a porte-cochère where the gas pumps were located (Photograph 6). Originally open and supported by plain square posts, the south elevation of the porte-cochère has been enclosed. The building’s primary entrance is centered under the porte-cochère on the main façade. Secondary entrances at the rear of the building have been fitted with glass doors. Both are accessed via a deck addition that wraps around the west and north elevations (Photograph 7). The building rests on a foundation of rough-cut stone laid without courses.

Building C (UTM: 609543.09mE/4466929.04mN) is a modern shed set back slightly from SR 36 immediately to the east of the Gas Station building. The small one story building is topped with a gabled roof of corrugated metal (Photograph 5). It is clad in horizontal wood siding and lacks fenestration.

Building D (UTM: 609585.36mE/4466923.02mN) is a cabin located adjacent to SR 36 and approximately 20 feet to the east of Building C. It is single story, rectangular in plan, and topped with a side-gabled roof (Photograph 8). The vernacular building lacks ornamentation and does not express any particular architectural style. It is clad in wood clapboard siding. The corrugated metal roof features exposed rafter tails. Primary fenestration consists of multiple light wood sashes. An addition, which is fitted with modern vinyl windows, projects from the center of the full-width, integral porch. Two primary entrances flank the projecting addition. The east entrance is fitted with a wood panel door, while the west entrance has a multi-light, glazed door framed in wood. A secondary entrance at the rear of the building is fitted with a sliding glass door that is accessed via a deck addition (Photograph 9). The building rests on a foundation of rough-cut stone laid without courses.

Building E (609476.77mE/4466972.94mN) is a cabin set back from SR 36 to the northwest of Building A, along a dirt driveway. It is single story, rectangular in plan, and topped with a side-gabled roof (Photograph 10). The vernacular building lacks ornamentation and does not express any particular architectural style. It is clad in plywood panels, the seams between them covered by narrow strips of wood. The corrugated metal roof features exposed rafter tails. Fenestration consists of vinyl replacement windows. The primary façade features a partial integral porch which connects to a deck addition at the west end of the building. The entrance is at the west end of the main façade and fitted with a flush door. It is accessed via a ramp leading to the porch, as well as a set of steps that lead to the deck on the west. The building rests on raised wood piers.

Building F (UTM: 609442.87mE/4466988.92mN) is a cabin located adjacent to Building E to the northwest. It is single story, rectangular in plan, and topped with a front-gabled roof (Photograph 11). The vernacular building lacks ornamentation and does not express any particular architectural style. It is clad in a combination of wood clapboard and vertical groove siding.
plywood siding. The corrugated metal roof features exposed rafter tails. Fenestration consists of multiple light wood sashes. Its primary entrance, which is on the south elevation, is sheltered by the roof overhang, and is fitted with a partially glazed wood panel door. It is accessed via a low concrete landing. The southern end of the building is an addition with its roof at a slightly lower pitch than the main volume of the cabin. (Photograph 19 is likely a photo of Building F before the addition was constructed.) The rear of the cabin features a deck addition on raised wood piers, due to the grade of the site. This building rests on a concrete foundation.

**B10. Significance (continued)**

**Historic Context**

**Roads in East Tehama County: Brief History of SR 36**

Early transportation routes in the 1850s in Tehama County were wagons roads and stage coach lines, which traveled from Red Bluff to Sacramento River communities. By the 1870s railroads lines were established in the county and used to transport passengers and goods, however local roads were still used, especially with popularity of the automobile, beginning in the 1910s. During the late 1890s in California, the state highway system was formed and the State Bureau of Highways recommended a highway constructed from Sacramento to Red Bluff (Hardwick and Holtgrieve 1996). Most of these early roads were not paved with a hard surface but instead were graded and rough until 1916 and 1917, when roads in Tehama County were paved (Kraft and Woodrum 2005).

The history of roads in eastern Tehama County begins with the Old County Wagon Road, constructed in 1863. This road was built from Red Bluff to Battle Creek Meadows, over Morgan Summit, across Mill Creek and through Tyler Meadows, now known as Childs Meadows (Serr, no date). The construction of this road led to campers and vacationers to escape the summer heat to the mountainous area of east Tehama County. In 1907, construction of a state highway given Legislative Route Number (LRN) 36 was constructed from present-day Oroville southeast to what is Collins Lake (CA highways 2013). By 1913, LRN 36 was extended further east-west, following the alignment of the Old County Wagon Road. In 1921, LRN 36 was paved and its general alignment followed the present-day alignment of SR 36 as it runs adjacent to Lassen Lodge at Paynes Creek. By 1926 LRN 36 appears on historic maps having been extended through the eastern portion of Tehama County (Luning, 1926.) In the 1920s, 1935 and 1941, The original alignment of SR 36 appears to have been located slightly to the north of its current alignment in places. SR 36 was completed in 1937 and has undergone improvements.

The SR 36 alignment appears to follow routes listed as State Highway 21 from Red Bluff to Mineral in 1934 (Ramsey 1934). Prior to the current highway naming conventions before 1963, portions of SR 36 through Tehama County were labeled LRN 3 and LRN 35. After 1964, segments of highways were combined and naming conventions were changed. Regardless of the condition of the road, during its wagon road period as well as its paved highway alterations, the road was crucial for travelers vacationing in the mountainous areas of east Tehama County.

**Traveler’s Stops and Lodges in east Tehama County**

The first European settlers to venture into the mountainous areas of Tehama County came to the area in the 1850s. The cool climate made vacationing and camping attractive to travelers and vacationers. Travelers first came on horseback, then later via the County Wagon Road that was constructed in 1863, and followed roughly the same route as the Old Emigrant Trail, established in the 1850s.

With the construction of the County Wagon Road 1863 and improvements made to this alignment, this became the primary route to the areas of Red Bluff, Manton, Mineral, and to Lassen Peak (Tehama County 2011). Recreational activities like fishing, hunting, and camping as well as ranching, the lumber industry, railroads, and roads led to the growth of the area from the late 1880s into the first several decades of the 20th century.

The community of Paynes Creek was established in 1870 and is roughly 20 miles northeast of Red Bluff. There was a sawmill in the area in the late 1850s at Mill Creek and eventually a stage stop and wagon routes were established between Red Bluff and Manton. The most well-known of these stage and wagon stops were in Mineral (Mineral Lodge), located on
SR 36, about 35 miles east of Red Bluff. Other historical wagon stops include one at Paynes Creek at Inskip Lodge, which contained a post office, store, gas station, and a dance hall (Tehama County 2011), and another at Morgan Springs, near Mill Creek. These wagon stops often had summer cabins, motels, and stores, which popular with travelers on their way to Lassen Volcanic National Park or as the destination spot in and of themselves. Some of these wagon stops grew into small towns and communities with schools and permanent residents, other stops along the Old County Wagon Road and later SR 36 were only places to rest or refuel before continuing on the journey. The lodge that is the subject of this form has had many place names on historic maps, and in local histories, the most common of which is Lassen Lodge.

Lassen Lodge
The Central Pacific Railroad patented T 29 R 2E Section 29 in 1895, along with dozens of other parcels nearby. The lodge that is the subject of this form is the location of a wagon or stage stop since the early 1910s, although it appears that the original stop had only one gas station and that other buildings were constructed later. Comparatively little is known about the details of the history of Lassen Lodge, given the many lodges, wagon stops and compared to the other historic-era lodges, wagon and travelers’ stops, and recreational areas in along the Old County Wagon Route/SR 36, Lassen Lodge has the least amount of historical information chronicling its history.

The first building on the property was a log cabin that was converted to a gas station and store in the early 1930s. Its original build date is unknown, but it appears to date from the late nineteenth century. The location is referred to by the name “Lassen Camp” on topographic maps as early as 1935, while other maps of the same era label the property “Jigg’s Station” (USGS, Paynes Creek, 1935; U.S. Department of Agriculture, 1939; Division of Forestry, 1937). The log structure featured a large sign that read, “Associated Jiggs Station”, projecting from its front gable (See Photographs 12 and 13).

The railroad held ownership of the property until at least 1926, after which William Cushman Swart acquired it. Born in Chicago in 1888, Swart had migrated to San Francisco by 1917 (US Draft Board 1917). A machinist by trade, Swart and his wife acquired the Lassen Lodge property, then known as Lassen Camp, circa the early 1930s. In May, 1939, Swart and his crew broke ground on the Lassen Lodge buildings. Swart cut and milled the lumber in the area, and built the lodge according to plans designed by his wife. The new lodge building was completed at the end of 1939 (Red Bluff Daily News 1969). The resort was renamed “Lassen Lodge,” and the new building, which was just west of the gas station, served as a cafe, bar, and traveler accommodation (See Photographs 14 and 15). By January, 1940, Lassen Lodge was an event destination for residents of the area, with the public address system installed in its “Rumpus Room” a particular attraction (Red Bluff Daily News 1970). Lassen Lodge also hired out horses to visitors (Gillis, 1939). Over the years, however, documents and maps continued to occasionally label the property “Lassen Camp” (U.S. Department of Agriculture, 1939). The original log cabin was demolished and replaced with a new gas station and grocery store building circa 1942 (See Photograph 16). The new building was an Associated gas station and grocery store, but was no longer called “Jigg’s Station”. During the late 1940s, “Lassen Lodge” and “Coffee Shop” were painted on the side of the lodge building in large letters (See Photographs 17 and 18). Individual cabins were built circa the late 1940s, and by 1950 there were at least five small cabins on the property in addition to the lodge and gas station buildings (See Photographs 19 and 20). The lodge was used for storage until 1974. In 2007 a 20-by-20 agriculture barn was constructed on the property (Tehama County Assessor 2007).

Evaluation
The following provides an evaluation and determination of integrity of the Lassen Lodge at as an individual historical architectural resource under the NRHP and CRHR criteria. Lassen Lodge was not evaluated as a historic district because the buildings that are not visible from the public right-of-way were not recorded are not included in this evaluation.

The buildings at Lassen Lodge do not appear to meet the criteria for listing in the NRHP or the CRHR under Criterion A and/or 1. The historic record does not indicate that the lodge or cabins are importantly associated with the development or

1 World War I Draft Registration Card, William Cushman Swart, California, San Francisco; Roll: 1544258, Draft Board: 9.
The Lassen Lodge buildings do not appear to meet the criteria for listing in NHRP or the CRHR under Criterion B and/or 2. The property is not significant under Criterion B or 2 because there do not appear to be any individuals that are important within local, state, or national history associated with this property.

The Lassen Lodge buildings do not appear to meet the criteria for listing in NHRP or the CRHR under Criterion C and/or 3. The buildings were constructed in the 1930s, 1940s, and 1950s as accommodations for travelers as were many other lodges and travelers camps in the area. The lodge and four cabins on the property do not embody distinctive characteristics of type, period, or methods of construction, nor are they the work of a master architect or builder, and they do not possess high artistic value. The four cabins have been altered, especially the gas station which has been altered with an enclosed port cochere and does not retain its historic integrity of appearance. Although the lodge and cabins retain some of their original historic appearance, the buildings styles are modest and vernacular.

The Lassen Lodge buildings do not serve as sources of important information to prehistory or history and are not eligible for the NRHP or CRHR under Criteria D and/or 4.
Photographs:

Photograph 2: Building A, camera facing north

Photograph 3: Building A, camera facing southeast
Photograph 4: Building A, siding and foundation detail

Photograph 5: Buildings B and C, camera facing northwest
Photograph 6: Building B, camera facing west

Photograph 7: Buildings A and B, camera facing east
Resource Name or # (Assigned by recorder): LLHEP-JF-06

Photograph 8: Building D, camera facing north

Photograph 9: Building D, camera facing east
Photograph 10: Building E, camera facing northeast

Photograph 11: Building F, camera facing northwest
Photograph 12: Jigg’s Station Building, 1937, Eastman Collection

Photograph 13: Jigg’s Station Building, winter 1937, Eastman Collection
Photograph 14: Lassen Lodge and Jigg’s Station Buildings, 1940, Eastman Collection

Photograph 15: Lassen Lodge interior, 1940, Eastman Collection
Photograph 16: Lassen Lodge and Gas Station Buildings (Buildings A & B), 1943, Eastman Collection

Photograph 17: Lassen Lodge, 1947, Eastman Collection
Photograph 18: Lassen Lodge, winter 1948, Eastman Collection

From the Eastman's Originals Collection, Department of Special Collections, General Library, University of California, Davis. The collection is property of the Regents of the University of California; no part may be reproduced or used without permission of the Department of Special Collections.
Resource Name or # (Assigned by recorder): LLHEP-JF-06

Photograph 19: Lassen Lodge Cabin, 1949, Eastman Collection
Photograph 20: Lassen Lodge Cabins, 1950, Eastman Collection
References:

Books and Personal Communication:


Maps:


State of California, Department of Natural Resources. *Administrative Map of Tehama County*. Division of Forestry. 1937. Website: http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2491.JPG&template=mapsSIDsearch&catalog=catMaps.


Mabel R. Gillis, California State Librarian. *California: A Guide to the Golden State*. Compiled and Written by the Federal Writer’s Project of the Works Progress Administration for the State of California. 1939. Website: http://books.google.com/books?id=BiIVISeuA0UC&pg=PA706&dq=%22lassen%22&hl=en&sa=X&ei=DO1gUrffLM7kiwQw0DgAg&ved=0CEkQ6AEwAw#v=onepage&q=%22lassen%20camp%22&f=false.

Earl Reuben Walker. *Scenic Trails*. Volume 1. Trails, Incorporated. 1937. Website: http://books.google.com/books?id=rY7kAAAAMAAJ&q=%22lassen+camp%22&dq=%22lassen+camp%22&hl=en&sa=X&ei=juYgUsfJlaOriQKrwlHIDQ&ved=0CDsQ6AEwATgU.

Historic Photographs:

“Jiggs Station,” on Lassen Volcanic Highway, Calif., 1937, Eastman’s Originals Collection, Group 4, Special Collections, University of California Library, Davis.

“Winter” at Jigg’s Station, On Lassen Volcanic Highway, Calif., 1937, Eastman’s Originals Collection, Group 14, Special Collections, University of California Library, Davis.

“At Lassen Lodge” on Lassen Volcanic Highway, Calif., 1940, Eastman’s Originals Collection, Group 9, Special Collections, University of California Library, Davis.

“Lassen Lodge on Red Bluff-Susanville Highway, Calif., 1940, Eastman’s Originals Collection, Group 39, Special Collections, University of California Library, Davis.

Lassen Camp, Calif., 1943, Eastman’s Originals Collection, Group 43, Special Collections, University of California Library, Davis.

Lassen Lodge, Paynes Creek, Calif., 1947, Eastman’s Originals Collections, Group 11, Special Collections, University of California Library, Davis.

Lassen Lodge, Paynes Creek, Calif., 1947, B-5141, Eastman’s Originals Collections, Group 11, Special Collections, University of California Library, Davis.

At Lassen Lodge, Calif., 1948, , Eastman’s Originals Collections, Group 11, Special Collections, University of California Library, Davis.

Cabin at Lassen Lodge, Paynes Creek, Calif., 1949, Eastman’s Originals Collection, Group 12, Special Collections, University of California Library, Davis.

Cabins, Lassen Camp Calif., 1950, Eastman’s Originals Collection, Group 43, Special Collections, University of California Library, Davis.
Resource Name or # (Assigned by recorder): LLHEP-JF-06; Lassen Lodge

*Drawn By: GPS-

*Date: 8/22/2013

Legend

- Datum
- Buildings
- 5-foot Contours
Resource Name or #: LLHEP-JF-06; Lassen Lodge

Map Name: Lyonsville, CA (20 ft Contour)

Scale: 1:24,000

Date of Map: 1985, revised 2012
P1. Other Identifier: Powerhouse Road.

P2. Location: ☑ Not for Publication ☑ Unrestricted

P3a. Description:
LLHEP-JF-09 is a recorded segment of a north-south trending, paved two-lane road (South Powerhouse Road). The recorded road segment measures 1.2 miles long and is 26 feet wide. The road segment is situated within the rural town of Manton, California. The earliest depiction of the road segment is illustrated as South Powerhouse Road on the 1956 USGS Manton 15 minute quadrangle. On this quad it is depicted as a 3 mile north-south and northwest-southwest trending road that terminates at a powerhouse in the north. At the southern terminus, South Power House Road intersects with an east-west trending paved road (Hazen Road). The road segment was most likely constructed between 1926 and 1956 based on historic maps of the area (Luning 1926; USGS 1956). No artifacts were observed to be directly related to the road. A modern single wood and steel pole PG&E transmission line is adjacent to the west side of the road. The road is well used and currently maintained by Tehama County.

P3b. Resource Attributes: (List attributes and codes) AH7 (road)

P4. Resources Present: ☑ Building ☑ Structure ☑ Object ☑ Site ☑ District ☑ Element of District ☑ Other (Isolates, etc.)

P5b. Description of Photo:
DSC_2964, 8/22/13, south Powerhouse Road from center facing north.

P6. Date Constructed/Age and Sources:
Historic
Prehistoric
Both
1956 USGS 15 minute Manton, CA, quadrangle map.

P7. Owner and Address:
Tehama County
No Address

P8. Recorded by:
Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel
Tetra Tech, Inc., EC 2969 Prospect Park Dr. Ste. 100 Rancho Cordova, CA 95670

P9. Date Recorded:
8/22/2013

P10. Survey Type:
Intensive Survey

P11. Report Citation:
Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project
FERC Project No. 12496 Tehama County, California

Attachments: ☑ NONE ☑ Location Map ☑ Sketch Map ☑ Continuation Sheet ☑ Building, Structure, and Object Record
☑ Archaeological Record ☑ District Record ☑ Linear Feature Record ☑ Milling Station Record ☑ Rock Art Record
☑ Artifact Record ☑ Photograph Record ☑ Other (List):
L1. Historic and/or Common Name: South Powerhouse Road
L2a. Portion Described: □ Entire Resource  ☑ Segment  □ Point Observation  Designation: Road
   b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map) Also see Location map:
      Start (N-S): 595750.76 mE / 4476575.11 mN, End (S-N): 595729.48 mE / 447469.10 mN (GPS)
L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)
   South Powerhouse Road (County Road #556) is a two lane historic road. It was declared a public highway November 17, 1947, is a chip sealed road, no changes have been made to its location or width, and the County maintains 1.23 miles from Manton Road to Hazen Road (Tim Wood 2013). The road segment was most likely constructed between 1926 and 1956 based on historic maps of the area (Luning 1926; USGS 1956). No artifacts were observed to be directly related to the road.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)
   a. Top Width: 26 feet
   b. Bottom Width: n/a
   c. Height or Depth: about 2-4 inches
   d. Length of Segment: 1.2 miles

L5. Associated Resources: none.
L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)
   The road is lined with overgrown cheatgrass and fences separating private property boundaries. Slope varies with minor undulations along the route.

L7. Integrity Considerations: The road appears to retain its integrity of place, materials, location, setting and design and the road is currently in use and is maintained by Tehama County.

L8b. Description of Photo, Map, or Drawing (View, scale, etc.) DSC_2963, 8/22/13, South Powerhouse Road from the north facing southwest.


L10. Form Prepared by:
   (Name, affiliation, and address) Jenna Farrell, Erica Maier, Julia Carvajal, Sydni Kitchel
   Tetra Tech, Inc. 2969 Prospect Park Dr. Suite 100 Rancho Cordova, CA

L11. Date: 8/22/2013
B1. Historic Name: South Powerhouse Road
B2. Common Name: South Powerhouse road (County Road #556)
B3. Original Use: Road
B4. Present Use: Road
*B5. Architectural Style: N/A
*B6. Construction History: (Construction date, alterations, and date of alterations)
The road segment was most likely constructed between 1926 and 1956 based on historic maps of the area (Luning 1926; USGS 1956). It was declared a public highway on November 17, 1947 and the location and width have not been altered (Tim Wood 2013).
*B7. Moved? No
*B8. Related Features: None
B9a. Architect: unknown
b. Builder: unknown
*B10. Significance: Theme: Transportation
Period of Significance: early-mid 20th century
Property Type: Road
Applicable Criteria: NRHP and CRHR, see below.
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

LLHEP-JF-09 is the paved South Powerhouse Road. The road segment was most likely constructed between 1926 and 1954 based on historic maps of the area (Luning 1926; USGS 1956). It retains its integrity of place, materials, location, setting and design and the road is currently in use and maintained by Tehama County. The field investigation, review of historic maps, and literature review, did not identify any additional historic information regarding the road.

This road is evaluated for its eligibility under the NRHP criterion A-D and CRHR Criterion 1-4. LLHEP-JF-09 is not clearly associated with an event (Criterion A and 1). Historic research did not indicate that this segment is associated with as person significant in national, state or local history (Criterion B and 2). The research also did not indicate that the road embodies the distinctive characteristics of an architectural style or architect, or represent the work of a master engineer nor does it possess high engineering value (Criterion C and 3). Historic research has not revealed that this road possesses important information to history nor does it yield the potential to answer specific important research questions. The recordation of this road has likely exhausted the data potential of the resource (Criterion D and 4), Tetra Tech therefore recommends this road as not eligible for listing on the NRHP or CRHR.

B11. Additional Resource Attributes: (List attributes and codes) None.

*B12. References:
USGS. 1954. 7.5 Manton, California Quadrangle
Metzers Maps. 1939. Metsker’s Map of Tehama County, California.

B13. Remarks: None

*B14. Evaluator: J. Farrell
*Date of Evaluation: 8/22/2013
Resource Name or #: LLHEP-JF-09

Map Name: Manton, CA (20 ft Contour)

Scale: 1:24,000

Date of Map: 1985, revised 2012
CA-TEH-2502H
P1. Other Identifier:

*P2. Location: ☑ Not for Publication ☐ Unrestricted

* a. County: Tehama

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5’ Quad: Manton  Date: 1985, revised 2012

c. Address:

T 30N; R 1E; S¼ between Sec 27 and 28 M.D.B.M.

d. UTM: Zone: 10 ; 596531.74 mE/ 4475272.95 mN is the north end (start)

596536.81 mE/ 44744660.72 mN is the south end (end)

G.P.S.

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

LLHEP-JF-10 is a recorded segment of a paved two-lane road (Manton School Road) trending in a north-south direction. The recorded road segment measures 0.35 miles long and is 17 feet wide. Private property fence lines parallel the road to the east and west. The road segment is illustrated on the 1926 Tehama County Map (Luning 1926), the 1939 Metskers Tehama County Map, and as Manton SCH Road on the 1956 USGS Manton 15 minute quadrangle. On all the maps, the road is illustrated as a one mile north-south trending road that terminated at the intersection of Forward Road at the north end and at Hazen Road at the south end. No artifacts were observed to be directly related to the road. The road is currently maintained by Tehama County.

*P3b. Resource Attributes: (List attributes and codes) AH7 (road)

*P4. Resources Present: ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

*P5b. Description of Photo: (View, date, accession #) DSC-2968, 8/22/13, Manton School Road overview from the south facing north.

*P6. Date Constructed/Age and Sources: ☑ Historic ☐ Prehistoric ☐ Both

This segment 1926-1956/ historic maps

*P7. Owner and Address:

Tehama County
No address

*P8. Recorded by: (Name, affiliation, and address)

Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

*P9. Date Recorded: 8/22/13

*P10. Survey Type: (Describe)

Intensive Survey

*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project
FERC Project No. 12496 Tehama County, California

*Attachments: ☑ NONE ☐ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record

☐ Archaeological Record ☐ District Record ☑ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record

☐ Artifact Record ☐ Photograph Record ☐ Other (List):
L1. Historic and/or Common Name: Manton School Road
L2a. Portion Described: □ Entire Resource ☑ Segment □ Point Observation
Designation: Road
b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map)
596531.74 mE/ 4475277.95 mN is the north end (start)
596536.81 mE/ 44744660.72 mN is the south end (end)

L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)
Manton School Road is a two lane historic road. Manton School Road (County Road #462) was declared a public highway on December 10, 1923, it is a chip sealed road, the width and location of the road has not been changed, and the County maintains 1.3 miles from Forward Road to Hazen Road (Tim Wood 2013). The road segment is illustrated on the 1926 Tehama County Map (Luning 1926), the 1939 Metskers Tehama County Map, and as Manton SCH Road on the 1956 USGS Manton 15 minute quadrangle within T30N, R1E, in section 27/28. On all the maps, the road is illustrated as a one mile north-south trending road that terminates at the intersection of Forward Road at the north end and terminates at Hazen Road at the south end. No artifacts were observed to be directly related to the road. The road is well used and currently maintained by Tehama County.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)
a. Top Width: 17 feet
b. Bottom Width: 17 feet
c. Height or Depth: 2-5 inches
d. Length of Segment: 0.35

L5. Associated Resources: None

L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)
Vegetation includes overgrown cheat grass, pine and oak trees, and lined fencing separates properties. Slope is consistent with some minor unjulating road sections.

L7. Integrity Considerations: The road appears to retain its integrity of place, materials, location, setting and design and the road is currently in use and is maintained by Tehama County.

L8a. Photograph, Map or Drawing

L8b. Description of Photo, Map, or Drawing (View, scale, etc.)
DSC_2980, 8/22/13, Manton School Road overview from center looking south.

L9. Remarks: None

L10. Form Prepared by:
(Name, affiliation, and address)
Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

L11. Date: 8/22/13
B1. Historic Name: Manton School Road
B2. Common Name: Manton School Road (County Road #462)
B3. Original Use: Road
B4. Present Use: Road

*B5. Architectural Style: paved road

*B6. Construction History: (Construction date, alterations, and date of alterations)
Manton School Road (County Road #462) was declared a public highway on December 10, 1923, the road has not been altered in width or location (Tim Wood 2013). The road was most likely constructed prior to 1923 based on County records and maps (Tim Wood 2013, Luning 1926).

*B7. Moved? ☐ No ☐ Yes ☐ Unknown

Date: Original Location: Yes

*B8. Related Features: None

B9a. Architect: unknown
b. Builder: unknown

*B10. Significance: Theme: Transportation
Area: Manton, California

Period of Significance: early-mid 20th century
Property Type: Road
Applicable Criteria: NRHP and CRHR, see below.

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

LLHEP-JF-10 is the paved Manton School Road. The road segment was most likely constructed between 1926 and 1954 based on historic maps of the area (Luning 1926; USGS 1956). It retains its integrity of place, materials, location, setting and design and the road is currently in use and maintained by Tehama County. The field investigation, review of historic maps, and literature review, did not identify any additional historic information regarding the road.

This road is evaluated for its eligibility under the NRHP criterion A-D and CRHR Criterion 1-4. LLHEP-JF-10 is not clearly associated with an event (Criterion A and 1). Historic research did not indicate that this segment is associated with a person significant in national, state or local history (Criterion B and 2). The research also did not indicate that the road embodies the distinctive characteristics of an architectural style or architect, or represent the work of a master engineer nor does it possess high engineering value (Criterion C and 3). Historic research has not revealed that this road possesses important information to history nor does it yield the potential to answer specific important research questions. The recordation of this road has likely exhausted the data potential of the resource (Criterion D and 4), Tetra Tech therefore recommends this road as not eligible for listing on the NRHP or CRHR.

B11. Additional Resource Attributes: (List attributes and codes) None

*B12. References:
USGS
1954 7.5 Manton, California Quadrangle
Luning, W.F.
1926 Official Map of Tehama County California. H.S. Crocker Co. Inc.
San Francisco, California
Metzers Maps
1939 Metsker’s Map of Tehama County, California.
Wood, Tim
2013 Tehama Count Department of Public Works, personal communication with Julia Mates, Tetra Tech, October 21, 2013.

B13. Remarks: None

*B14. Evaluator: J. Farrell

(Sketch Map with north arrow required.) See Photographs and location map attached

(This space reserved for official comments.)
*Map Name: Manton, CA (20 ft Contour)  
*Scale: 1:24,000  
*Date of Map: 1985, revised 2012
CA-TEH-2503H
P1. Other Identifier: Hazen Road

*P2. Location: ☒ Not for Publication ☐ Unrestricted

   and (P2b and P2c or P2d. Attach a Location Map as necessary.)
   *a. County: Tehama
   *b. USGS 7.5' Quad: Manton Date: 1985, revised 2012
   c. Address:
   d. UTM: Zone: 10 ; West End: 596552.53 mE/ 4474642.78 mN;
       East End: 598144.62 mE/ 4474675.33 mN (G.P.S.)
   e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

LLHEP-JF-11 is a recorded segment of a paved two-lane road (Hazen Road) trending in an east-west direction. The recorded road segment measures 1.5 miles long and is 17 feet wide. Private property fence lines parallel the road to the north and south. The road segment is situated within the rural town of Manton, California. The road segment is not named but is illustrated on the 1903 and 1926 Tehama County Map (Luning 1903 and 1926), the 1939 Metsker’s Tehama County Map. It is later depicted as Hazen Road on the 1956 USGS Manton 15 minute quadrangle as a four mile east-west trending road. The recorded segment is completely paved and terminates to the east at a locked gate. Site CA-TEH-2113 (historic can scatter) is situate just south of Hazen Road. The road is well used and currently maintained by Tehama County.

*P3b. Resource Attributes: (List attributes and codes) AH7 (road)

*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

DSC_2987, 8/22/13, Hazen Road, west end/intersection Manton School Road facing east.

*P6. Date Constructed/Age and Sources: ☒Historic ☐Prehistoric ☐Both

Circa 1903/Historic maps

*P7. Owner and Address:

Tehama County
No address

*P8. Recorded by: (Name, affiliation, and address)

Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

*P9. Date Recorded: 8/22/13

*P10. Survey Type: (Describe)

Intensive Survey

*P11. Report Citation: (Cite survey report and other sources, or enter “none.”)

Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project
FERC Project No. 12496 Tehama County, California

*Attachments: ☐NONE ☒Location Map ☐Sketch Map ☐Continuation Sheet ☒Building, Structure, and Object Record

☐Archaeological Record ☐District Record ☒Linear Feature Record ☐Milling Station Record ☐Rock Art Record

☐Artifact Record ☐Photograph Record ☐Other (List):
L1. Historic and/or Common Name: Hazen Road

L2a. Portion Described: ☑ Entire Resource ☐ Segment ☐ Point Observation  Designation: Road

b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map)
West End: 596552.53 mE/ 4474642.78 mN; East End: 598144.62 mE/ 4474675.33 mN (G.P.S.)

L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)
Hazen Road is a two lane historic-era, chip sealed road 1.3 miles long. It was declared a public highway Dec. 10 1923, but the road segment was most likely constructed prior to 1903 based on historic maps of the area (Luning 1903). There have been no modifications to the road in location or width. No artifacts were observed to be directly related to the road.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)
   a. Top Width: 17 feet
   b. Bottom Width: 17 feet
   c. Height or Depth: about 2-5 inches
   d. Length of Segment: 1.5 miles

L5. Associated Resources: None

L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)
Vegetation includes overgrown cheat grass, pine and oak trees, and lined fencing separates properties. Slope is consistent with some minor unjulating road sections.

L7. Integrity Considerations: The road appears to retain its integrity of place, materials, location, setting and design and the road is currently in use and is maintained by Tehama County.

L8b. Description of Photo, Map, or Drawing (View, scale, etc.) DSC_2994, 8/22/13, Hazen Road east end facing west.

L9. Remarks: None

L10. Form Prepared by: (Name, affiliation, and address)
Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

L11. Date: 8/22/13

*Required information
**NRHP Status Code** *(Assigned by recorder): LLHEP-JF-11; Hazen Road*

**B1. Historic Name:** Hazen Road

**B2. Common Name:** Hazen Road

**B3. Original Use:** Road  
**B4. Present Use:** Road

**B5. Architectural Style:** paved linear road

**B6. Construction History:** (Construction date, alterations, and date of alterations)

Based on historic maps, LLHEP-JF-11 is an historic road most likely constructed prior to 1903 (Luning 1903).

**B7. Moved?** ☐ No  ☑ Yes  ☐ Unknown

**B8. Related Features:**

None

**B9a. Architect:** N/A  
**b. Builder:** Tehama County

**B10. Significance:**

**Area:** Manton, California

**Period of Significance:** early- mid 20th century  
**Property Type:** Road  
**Applicable Criteria:**

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

LLHEP-JF-11 is the paved Hazen Road. The road segment was most likely constructed prior to 1903 (Luning 1903). It retains its integrity of place, materials, location, setting and design and the road is currently in use and maintained by Tehama County. The field investigation, review of historic maps, and literature review, did not identify any additional historic information regarding the road.

This road is evaluated for its eligibility under the NRHP criterion A-D and CRHR Criterion 1-4. LLHEP-JF-11 is not clearly associated with an event (Criterion A and 1). Historic research did not indicate that this segment is associated with as person significant in national, state or local history. The road was likely named for George W. Hazen (1829-1910) and/or his brother, Wheeler Edward (W.E.) Hazen (1836-1902), land owners and farmers in Manton. Although the Hazen brothers and the Hazen family owned land in Manton as early as 1820, it does not appear that George or W.E. Hazen were historically significant at the national, state or local level (Criterion B and 2). The research also did not indicate that the road embodies the distinctive characteristics of an architectural style or architect, or represent the work of a master engineer nor does it possess high engineering value (Criterion C and 3). Historic research has not revealed that this road possesses important information to history nor does it yield the potential to answer specific important research questions. The recordation of this road has likely exhausted the data potential of the resource (Criterion D and 4), Tetra Tech therefore recommends this road as not eligible for listing on the NRHP or CRHR.

**B11. Additional Resource Attributes:** (List attributes and codes) : None

**B12. References:**

USGS 1954 7.5 Manton, California Quadrangle; Luning, W. F.

1903 Official map of the County of Tehama, California carefully compiled from actual surveys by W.F. Luning, County Surveyor. Available online:

http://cricket.csuchico.edu/scripts/PortWeb.dll?query&field1=Filename&op1=starts+with&value1=CA_2497.JPG&template=mapsSidSearch&catalog=catMaps

1926 Official Map of Tehama County California. H.S. Crocker Co. Inc.

San Francisco, California

Metzker’s Maps

1939 Metsker’s Map of Tehama County, California.

**B13. Remarks:** None

**B14. Evaluator:** J. Farrell

*(Sketch Map with north arrow required.)

See photos and location map attached*
State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LOCATION MAP

Primary #  52-002503
HRI#       
Trinomial CA-TEH-2503H

Page 4 of 4  *Resource Name or #:  LLHEP-JF-11; Hazen Road

*Map Name: Manton, CA   (20 ft Contour)  *Scale: 1:24,000  *Date of Map: 1985, revised 2012

Start of Recorded Segment

CA-TEH-2503

Hazen Road

End of Recorded Segment

DPR 523J (1/95)  *Required information
**P1. Other Identifier:** Historic Road Segment

**P2. Location:** ☑ Not for Publication ☐ Unrestricted ☑ Historic Road Segment

- **a. County:** Tehama
- **USGS 7.5' Quad:** Manton, CA  
  **Date:** 1954, revised 1985
  **T 29N, R 1E; E ½ of SW ¼ of NE ¼, E ½ of NW ¼ of NE ¼ of Sec 2; M.D.**
- **UTM:** Zone: 10; 599743.61 m E, 4473567.60 m N is north end (start)
  599598.38 m E, 4472936.48 m N is south end (end)
- **Other Locational Data:** (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation: 2,200 feet

**P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

LLHEP-JF-12 is an unnamed north-south trending dirt road segment. The recorded segment is 0.25 mile and measures 9 feet and 3 inches wide. The road segment is illustrated on the 1956 USGS Manton 15 minute quadrangle as a 1.25 mile north-south trending two track road that intersects with Forward Road to the north and an unnamed east-west trending road to the south. This recorded segment is bounded by a property fence line at the north and continues south passing a modern day hunting camp.

The road is not illustrated on the 1945 Tehama County map or any earlier available maps. The road was most likely constructed between 1945 and 1956 based on historic maps of the area (Thomas Bros 1945; USGS 1956). No artifacts or historic structures were observed to be directly related to the road. The road is in current use by PG&E as an access road, the private land owner and recreational guest.

**P3b. Resource Attributes:** (List attributes and codes) AH7 (Road)

**P4. Resources Present:** ☑ Building ☑ Structure ☑ Object ☑ Site ☑ District ☑ Element of District ☑ Other (Isolates, etc.)

**P5a. Photo or Drawing** (Photo required for buildings, structures, and objects.)

**P5b. Description of Photo:** (View, date, accession #)

DSC_3030, 8/22/13, Site overview, unnamed dirt road segment, facing south.

**P6. Date Constructed/Age and Sources:** ☑ Historic ☑ Prehistoric ☑ Both

Based on historic 1956 topo map

**P7. Owner and Address:**

Private land owner.
No address

**P8. Recorded by:** (Name, affiliation, and address)

Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell Tetra Tech, Inc.
2969 Prospect Park Drive, #100 Rancho Cordova, CA 95670

**P9. Date Recorded:**

8/22/13

**P10. Survey Type:** (Describe)

Intensive Survey

**P11. Report Citation:**

(Cite survey report and other sources, or enter "none.")

Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project
FERC Project No. 12496 Tehama County, California

**Attachments:** ☑ NONE ☑ Location Map ☑ Sketch Map ☑ Continuation Sheet ☑ Building, Structure, and Object Record

□ Archaeological Record □ District Record □ Linear Feature Record □ Milling Station Record □ Rock Art Record

□ Artifact Record □ Photograph Record □ Other (List):
L1. Historic and/or Common Name: no name

L2a. Portion Described: ☐ Entire Resource ☒ Segment ☐ Point Observation

Designation: Road

b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map)

599743.61 m E, 4473567.60 m N is north end (start)

599598.38 m E, 4472936.48 m N is south end (end)

L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)

LLHEP-JF-12 is an unnamed north-south trending dirt road segment. The road segment is illustrated on the 1956 USGS Manton 15 minute quadrangle, T29N, R1E, in Section 2. The dirt road is made of subgrade soil and consist of a silty sand with small angular gravels. This segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). No artifacts were observed along the road.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)

a. Top Width: 9 feet 3 inches

b. Bottom Width: 9 feet 3 inches

c. Height or Depth: N/A

d. Length of Segment: Recorded segment: 0.25 mile

L5. Associated Resources: None

L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.) Rural oak and pine transition zone

L7. Integrity Considerations: The road appears to retains its integrity of place, materials, location, setting and design and the road is currently used by PG&E as an access road, the private land owner and recreational guest utilizing the property for seasonal hunting.

L8b. Description of Photo, Map, or Drawing (View, scale, etc.), DSC_3030, LLHEP-JF-12 road overview, view north-northeast


L10. Form Prepared by:

(Name, affiliation, and address)
Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

L11. Date: 8/22/13
B1. Historic Name: unnamed dirt road  
B2. Common Name: Unnamed dirt road  
B3. Original Use: Road  
B4. Present Use: Road  

*B5. Architectural Style: unpaved linear road  
*B6. Construction History: The road is not illustrated on the 1945 Thomas Bros Tehama County map or any earlier available maps. The road segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956).  

*B7. Moved? ☐No ☐Yes ☐Unknown Date: Original Location: Yes.  
*B8. Related Features: None  
B9a. Architect: N/A  
B9b. Builder: private resident  

*B10. Significance: Theme: Transportation  
Area: Manton, California  
Period of Significance: early-mid 20th century  
Property Type: Road  
Applicable Criteria: NRHP and CRHR see below.  
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)  

LLHEP-JF-12 is an unnamed north-south trending two-track dirt road segment. The road segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). It retains its integrity of place, materials, location, setting and design and the road is currently used by PG&E as an access road, the private land owner and recreational guest utilizing the property for seasonal hunting. The field investigation, review of historic maps, and literature review, did not identify any additional historic information regarding the road.  

This road is evaluated for its eligibility under the NRHP criterion A-D and CRHR Criterion 1-4. LLHEP-JF-12 is not clearly associated with an event (Criterion A and 1). Historic research did not indicate that this segment is associated with as person significant in national, state or local history (Criterion B and 2). The research also did not indicate that the road embodies the distinctive characteristics of an architectural style or architect, or represent the work of a master engineer nor does it possess high engineering value (Criterion C and 3). Historic research has not revealed that this road possesses important information to history nor does it yield the potential to answer specific important research questions. The recordation of this road has likely exhausted the data potential of the resource (Criterion D and 4), Tetra Tech therefore recommends this road as not eligible for listing on the NRHP or CRHR.  

B11. Additional Resource Attributes: (List attributes and codes): None  

*B12. References:  
USGS. 1956. Manton 7.5 minute quadrangle  
Thomas Bros. 1945. Map of Tehama County, California  
B13. Remarks: None  

*B14. Evaluator: J. Farrell  
*Date of Evaluation: 8/22/13
*Map Name: Manton, CA (20 ft Contour)  
*Scale: 1:24,000  
*Date of Map: 1985, revised 2012
P1. Other Identifier: Historic Road Segment

P2. Location: ☑ Not for Publication ☐ Unrestricted

*P2. Location: Historic Road Segment

P2a. County: Tehama
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

P2b. USGS 7.5' quad: Manton, CA Date: 1954, revised 1985
T 29N, R 1E; S ½ of SW ¼ of NW ¼ of Sec 1; T 29N, R 1E;
S ½ of NW ¼ of NW ¼, N ½ of SW ¼ of NW ¼, NW ¼ of SE ¼ of NW ¼, S ½ of SE ¼ of NW ¼ of Sec 2; M.D.

P2c. Address:

d. UTM Zone: 10; West end: 598654 ME/ 4473445 mN, East end: 600538mE / 4472875mN (GPS)

P2d. Elevation: 2,200 feet

P3a. Description:

LLHEP-JF-13 is an unnamed two-track dirt road segment. The recorded segment is a 1.2 mile north–south trending dirt road that measures approximately 9 to 10 feet in width. The road is illustrated on the 1956 USGS Manton 15 minute quadrangle as a 1.25 mile east–west trending road that once continued north at the western end, the eastern end of the segment dead ends at Ponderosa Way near Bluff Springs. The road segment is not illustrated on the 1945 Thomas Bros Tehama County map or any earlier available maps. This segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). The 1875 historic GLO plat map illustrate a structure labeled George W. Hazen’s House just north of the road near its eastern end. However, the 1875 map does not illustrate any roads. No artifacts or historic structures were observed to be directly related to the road. The road is in current use by PG&E as an access road, the private land owner and recreational guest. Several unmapped and mapped east-west and north-south trending dirt roads are located throughout the property.

P3b. Resource Attributes: (List attributes and codes) AH7 (Road)

P4. Resources Present: ☐ Building ☑ Structure ☐ Object ☐ Site ☐ District ☑ Element of District ☐ Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo: (View, date, accession #)
DSC_3029, 8/22/13,
Site overview, unnamed dirt road segment, facing south.

P6. Date Constructed/Age and Sources: ☑ Historic

P7. Owner and Address: Tehama County
No address

P8. Recorded by: (Name, affiliation, and address)
Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
Tetra Tech, Inc.
2969 Prospect Park Drive, #100
Rancho Cordova, CA 95670

P9. Date Recorded: 8/22/13

P10. Survey Type: (Describe)
Intensive Survey

P11. Report Citation: (Cite survey report and other sources, or enter "none.")
Cultural Resources Inventory for the Lassen Lodge Hydroelectric Project
FERC Project No. 12496 Tehama County, California

*Attachments: "NONE" Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record Artifact Record Photograph Record Other (List):
L1. Historic and/or Common Name: no name
L2a. Portion Described: ☑ Segment
L2b. Location of point or segment: (Provide UTM coordinates, legal description, and any other useful locational data. Show the area that has been field inspected on a Location Map)
West End: 596552.53 mE/ 4474642.78 mN; East End: 598144.62 mE/ 4474675.33 mN (G.P.S.)
L3. Description: (Describe construction details, materials, and artifacts found at this segment/point. Provide plans/sections as appropriate.)
LLHEP-JF-13 is an unnamed two-track dirt road segment. The dirt road is made of subgrade soil and consists of a silty sand with small angular gravels. This segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). No artifacts were observed along the road.

L4. Dimensions: (In feet for historic features and meters for prehistoric features)
   a. Top Width: 9 feet 10 inches
   b. Bottom Width: 9 feet 10 inches
   c. Height or Depth: N/A
   d. Length of Segment: 1.25 miles

L5. Associated Resources: None
L6. Setting: (Describe natural features, landscape characteristics, slope, etc., as appropriate.)
   Rural oak and pine transition zone

L7. Integrity Considerations: The dirt road appears to be in good condition,

L8b. Description of Photo, Map, or Drawing (View, scale, etc.), DSC_3029, Site overview, unnamed dirt road segment, facing south.


L10. Form Prepared by:
   Sydni Kitchel, Julia Carvajal, Erica Maier, Jenna Farrell
   Tetra Tech, Inc.
   2969 Prospect Park Drive, #100
   Rancho Cordova, CA 95670

L11. Date: 8/22/13
**Resource Name or # (Assigned by recorder):** LLHEP-JF-13

<table>
<thead>
<tr>
<th>B1. Historic Name:</th>
<th>unnamed dirt road</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2. Common Name:</td>
<td>Unnamed dirt road</td>
</tr>
<tr>
<td>B3. Original Use:</td>
<td>Road</td>
</tr>
<tr>
<td>B4. Present Use:</td>
<td>Road</td>
</tr>
<tr>
<td>B5. Architectural Style:</td>
<td>unpaved linear road</td>
</tr>
<tr>
<td>B6. Construction History:</td>
<td>(Construction date, alterations, and date of alterations)</td>
</tr>
<tr>
<td></td>
<td>The road is not illustrated on the 1945 Thomas Bros Tehama County map or any earlier available maps. The road segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). The 1875 historic GLO plat map illustrates a structure labeled George W. Hazen’s House just north of the road near its eastern end. However; the 1875 map does not illustrate any roads.</td>
</tr>
<tr>
<td>B7. Moved?</td>
<td>☒ No ☐ Yes ☐ Unknown</td>
</tr>
<tr>
<td>B8. Related Features:</td>
<td>None</td>
</tr>
<tr>
<td>B9a. Architect:</td>
<td>N/A</td>
</tr>
<tr>
<td>B9b. Builder:</td>
<td>private resident</td>
</tr>
<tr>
<td>B10. Significance: Theme:</td>
<td>Transportation</td>
</tr>
<tr>
<td>Area:</td>
<td>Manton, California</td>
</tr>
<tr>
<td>Period of Significance:</td>
<td>early- mid 20th century</td>
</tr>
<tr>
<td>Property Type:</td>
<td>Road</td>
</tr>
<tr>
<td>Applicable Criteria:</td>
<td>NRHP and CRHR see below (Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)</td>
</tr>
</tbody>
</table>

LLHEP-JF-13 is an unnamed east-west trending two-track dirt road segment. The road segment was most likely constructed between 1945 and 1954 based on historic maps of the area (Thomas Bros 1945; USGS 1956). It retains its integrity of place, materials, location, setting and design and the road is currently used by PG&E as an access road, the private land owner and recreational guest utilizing the property for seasonal hunting. The field investigation, review of historic maps, and literature review, did not identify any additional historic information regarding the road.

This road is evaluated for its eligibility under the NRHP criterion A-D and CRHR Criterion 1-4. LLHEP-JF-12 is not clearly associated with an event (Criterion A and 1). Historic research did not indicate that this segment is associated with as person significant in national, state or local history (Criterion B and 2). The research also did not indicate that the road embodies the distinctive characteristics of an architectural style or architect, or represent the work of a master engineer nor does it possess high engineering value (Criterion C and 3). Historic research has not revealed that this road possesses important information to history nor does it yield the potential to answer specific important research questions. The recordation of this road has likely exhausted the data potential of the resource (Criterion D and 4), Tetra Tech therefore recommends this road as not eligible for listing on the NRHP or CRHR.

**References:**
- USGS. 1956. Manton 7.5 minute quadrangle
- Thomas Bros. 1945. Map of Tehama County, California

**Remarks:**

**Evaluator:** J. Farrell

**Date of Evaluation:** 8/22/13

(This space reserved for official comments.)
*Resource Name or #: LLHEP-JF-13

*Map Name: Manton, CA  (20 ft Contour)

*Scale: 1:24,000  *Date of Map: 1985, revised 2012
APPENDIX J

SHPO CRI CONCURRENCE LETTER DATED APRIL 1, 2014
April 1, 2014

Jim Tompkins
Vice President-Senior Project Manager
Rugraw, Incorporated
P.O. Box 421
Tiburon, CA 94920

RE: REVISED Section 106 Consultation Lassen Lodge Hydroelectric Project, Tehama County, CA (FERC Project No. 1296-000-California)

Dear Mr. Tompkins:

Thank you for your letter dated February 6, 2014, continuing consultation with me on behalf of the FERC for the above referenced project in order to comply with Section 106 of the National Historic Preservation Act and its implementing regulations at 36 CFR 800. You are requesting that I concur with your APE revisions, recommendations for National Register of Historic Places (NRHP) eligibility, findings of effect, and management recommendations for the undertaking. In addition to your letter, you have submitted the following document:

- Cultural Resources Inventory Lassen Lodge Hydroelectric Project FERC License No. 12496 South Fork Battle Creek, Tehama County, California (Tetra Tech 2014)

Rugraw, Inc. is seeking a FERC license for a project that proposes to construct a small hydroelectric facility on the Upper South Fork Battle Creek, on the western slopes of the Cascade Range approximately 3 miles west of the town of Mineral, an unincorporated community in Tehama County, California. The project is on private land with the exception of 1 mile that is within a county road right-of-way (ROW).

The APE for the project consists of both an indirect and a direct APE. The direct APE consists of surfaces and depths that will be disturbed within the project footprint and includes 2 acres of diversion and intake structures, 3.5 acres for a powerhouse, 3.2 acres of multipurpose areas, a 1 acre transition structure, a penstock pipeline measuring 120 ft. wide by 2.4 miles long, 2.9 acres for a potential tower location, a transmission line measuring 120 ft. wide by 12 miles long, a station service line measuring 120 ft. long by .4 miles long, and transmission line pulling areas. The acreage included for each proposed facility of the project includes the total width of disturbance, proposed travel ways and workspace. The proposed indirect APE generally includes the direct APE, as well as historic viewsheds within the study area. The proposed vertical APE extends from approximately 60 ft. above the existing ground surface to approximately 20 ft. below the ground surface. According to our previous comments, the horizontal APE has been expanded to include the entire boundary of archaeological sites that lie within proposed areas of direct impact.

Rugraw, Inc. has hired Tetra Tech, Inc. to identify historic properties within the APE for the undertaking. Tetra Tech conducted a literature review and records search between August and December, 2013 identifying three previously recorded archaeological sites and two previously recorded historic sites within the APE. An archaeological and architectural survey was conducted of the APE in August 2013 and January 2014, identifying four previously unknown archaeological sites and six previously unidentified isolates. All but one of the previously
recorded sites were relocated and re-recorded during the field inventory. Eight architectural resources were identified within the APE. All archaeological resources that were identified were recorded. Prehistoric sites have not yet been evaluated for NRHP eligibility; however, architectural resources in the APE have been evaluated. The previous submission also included findings of effect and management recommendations for the resources in the APE, but did not consider driving on access roads as a potential effect. The updated submission considers the effect of driving on historic roads and makes management recommendations accordingly.

<table>
<thead>
<tr>
<th>Resource</th>
<th>NRHP Eligibility Recommendation</th>
<th>Finding of Effect</th>
<th>Management Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-TEH-1358-lithic scatter, midden, possible burials</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Adverse Effect</td>
<td>Continued use of road will continue to impact site. Recommended avoidance measures to include capping.</td>
</tr>
<tr>
<td>CA-TEH-1490-lithic scatter, tested &amp; excavated in 1988</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Adverse Effect-within access road.</td>
<td>Continued use of road will impact site. Recommended avoidance measures to include capping within road bed.</td>
</tr>
<tr>
<td>CA-TEH-1835H-Last Chance Ditch</td>
<td>Recommended Not Eligible</td>
<td>Yes-Access road and penstock pipeline</td>
<td>No further management</td>
</tr>
<tr>
<td>CA-TEH-2041H-Sawmill remains and associated refuse</td>
<td>Recommended Not Eligible</td>
<td>Yes-adjacent to penstock pipeline and access road</td>
<td>No further management</td>
</tr>
<tr>
<td>CA-TEH-2113H-historic can scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes-adjacent to access road and overhead T-line</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-01-historic lithic scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Yes-overhead T-line</td>
<td>Avoidance- orange hazard fencing</td>
</tr>
<tr>
<td>LLHEP-JF-04H-historic refuse scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes-dirt access road</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-SK-01-historic lithic scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Yes-paved access road</td>
<td>Avoidance-road transecting site will not be altered.</td>
</tr>
<tr>
<td>LLHEP-SK-02H-historic refuse scatter/cans</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>2LLHEP-JF-01H-historic refuse scatter</td>
<td>Recommended Not Eligible</td>
<td>Not within direct impact area</td>
<td>No further management</td>
</tr>
<tr>
<td>P-52-002474-Ponderosa Way</td>
<td>Recommended Eligible</td>
<td>Yes-Dirt access road</td>
<td>Will not be altered or changed, protection measures in HPMP.</td>
</tr>
<tr>
<td>LLHEP-JF-05-Historic road segment-former SR 36</td>
<td>Recommended Eligible</td>
<td>Yes-dirt access road</td>
<td>Road used for construction but will not be altered. Protection measures in HPMP.</td>
</tr>
<tr>
<td>LLHEP-JF-06-Lassen Lodge</td>
<td>Recommended Not Eligible</td>
<td>Yes-visual</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-09-South Powerhouse Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-paved access road</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-10-Manton School Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-paved access road</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-11-Hazen Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-paved access road</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-12-unnamed two-track dirt road</td>
<td>Recommended Not Eligible</td>
<td>Yes-dirt access road</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-13-unnamed two-track dirt road</td>
<td>Recommended Not Eligible</td>
<td>Yes-dirt access road</td>
<td>No further management</td>
</tr>
</tbody>
</table>
Following the previous submission, I also requested that a complete evaluation of the entire Lassen Lodge property be undertaken and consideration of the potential of the landscape, including the valley below the lodge, as a contributing feature. While access to the unevaluated portions of the property was not achieved, sufficient justification has been provided for the determination that the landscape is not a contributing feature that would impact the determination of eligibility for the lodge. Based on my recommendation, the potential visual effects of the transmission line to the valley and the lodge have been considered and it has been determined that the transmission line will not be visible from the lodge. For the time being, prehistoric archaeological sites are being assumed eligible and avoided or protected from project related activities.

After reviewing the revised report provided with the letter, I have the following comments:

- I concur with your determination that CA-TEH-1835H, CA-TEH-2041H, CA-TEH-2113H, LLHEP-JF-04H, LLHEP-SK-02H, 2LLHEP-JF-01H, LLHEP-JF-06, LLHEP-JF-09, LLHEP-JF-10, LLHEP-JF-11, LLHEP-JF-12, LLHEP-JF-13 are not eligible for listing on the NRHP.
- I concur with your determination that P-52-002474 and LLHEP-JF-05 are eligible for listing on the NRHP, your finding of effects for these resources and the management recommendations thus far.
- I concur with your decision to assume eligibility for the prehistoric archaeological resources, your finding of effects for these resources, and your management recommendations thus far.
- Please develop a Historic Properties Management Plan that includes the recommendations made in my previous letter and submit it to my office for further review and comment prior to receiving the FERC license or commencing any construction related activities.

Thank you for considering historic properties as part of your project planning. I look forward to continuing consultation on this project. Please direct any questions or concerns that you may have to Jessica Tudor at 916-445-7016 or email at Jessica.tudor@parks.ca.gov or to Kathleen Forrest at 916-445-7022 or email at Kathleen.forrest@parks.ca.gov.

Sincerely,

Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer
February 6, 2014

Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer
State Historic Preservation Office-FERC Project Review
1725 23rd Street, Suite 100
Sacramento, CA 95816

Subject: National Historic Preservation Act Section 106 Compliance for Lassen Lodge Hydroelectric Project, South Fork Battle Creek, Tehama County, CA (FERC Project No. 12496 California) — Revised APE and Cultural Resource Inventory Submittal and Concurrence with Findings Request (SHPO Filing # FERC_2013_0416-001)

Dear Ms. Roland-Nawi:

On behalf of the FERC License Applicant, Rugraw, LLC., and in accordance with Section 106 of the National Preservation Act and its implementing regulations 36 CFR Part 800 and the California Environmental Quality Act, Rugraw, LLC is continuing consultation with your office. We are hereby submitting the revised Project Area of Potential Effect (APE) and Final Cultural Resource Inventory for the Lassen Lodge Hydroelectric Project, South Fork Battle Creek Tehama County, California (FERC Project No. 12496-000-California) for your review and concurrence as stated below.

Due to final Project engineering changes and comments received by the State Historical Preservation Office (SHPO) in a letter dated December 10, 2013, the APE was revised and is illustrated on maps in Attachment 1. In addition, based on the SHPO response letter dated December 10, 2013, a conference call with SHPO dated December 18, 2013, and additional field inventory conducted in January 2014, the following sections of the report have been revised:

**Per SHPO Comment:** Pursuant to 36 CFR 800.5 I cannot concur with your finding of no effect for historic roads and historic properties located within or adjacent to a road that will be used by construction vehicles to access construction locations. A traffic analysis would determine whether the roads are currently able to accommodate such traffic without damage. Please synthesize the results of a traffic analysis study into your next report. Please see the following sections:

- Summary
- Appendix A – Maps revised, confidential set that includes all project features, roads, and sites within the APE
- Section 1.2.10, Access Roads – Revised to include vehicle and traffic discussion
SHPO Comment: I cannot concur with your recommendation that Lassen Lodge (LLHEP-JF-06) is not eligible, or with your finding of no effect for this resource. Your evaluation efforts did not include the entirety of the site, nor did you sufficiently consider the potential visual effects of the proposed transmission line through the valley below the Lassen Lodge. While my staff did agree that recordation from the right-of-way was adequate for initial evaluation, due to the extent of the property and the location of any potential impacts I recommend requesting access to the entire property to perform a full evaluation of Lassen Lodge, including whether or not the landscape would be a contributing feature. This would facilitate a complete analysis of the potential impact the proposed transmission line might have on the integrity of the property. Please see the following sections:

- Summary
- Evaluations and Management Recommendations for Architectural Resources, Section 5.6.3, LLHEP-JF-06: Lassen Lodge – Revised
- Section 6, Conclusions, Section 6.3, Adverse Effects – Revised

SHPO Comment: I recommend that the archaeological sites that are within or adjacent to the APE be evaluated; and further recommend that your evaluations of all resources within the APE consider a landscape approach to determine if any potential cultural landscapes or Traditional Cultural Properties are present within the APE.

- Summary
- Appendix A – Maps revised, confidential set that includes all project features, roads, and sites within the APE
- Section 5, Archaeological and Architectural Inventory Results, 5.1, Previously Recorded Archaeological Sites – Revised to include updated information regarding CA-TEH-1358/H, -1490, -1835H, -2041H, and -2113H
- Table 5-5, Newly Identified Archaeological Sites and Section 5.1.2, Newly Recorded Archaeological Sites – Revised with new archaeological site 2LLHEP-JF-01H, and 5.1.3, Newly Recorded Archaeological Isolates 2LLHEP-JF-ISO-01
- Section 5, Table 5-12, Archaeological and Architectural Resources Identified within the APE – Revised
- Section 5.5, Evaluations and Management Recommendations for Archaeological sites, Section 5.5.1, 5.5.2, 5.5.4, 5.5.5, and 5.5.11 – Revised Section 5.6, Evaluations and Management Recommendations for Architectural Resources, Section 5.6.3, LLHEP-JF-06: Lassen Lodge – Revised
- Section 6, Conclusions, Section 6.3, Adverse Effects – Revised
SHPO Comment: The maps of the Project APE do not sufficiently depict the sensitive areas of the APE. Please provide an APE map that includes the roads that will be used and/or altered during the course of the Project, and the locations of archaeological and architectural resources on one map.

- Appendix A – Maps revised, confidential set that includes all project features, roads, and sites within the APE
- Section 1.4, Definition of Area of Potential Effects – Revised
- Table 2-2, Documented Archaeological Resources – Revised
- Section 2.2, Native American and Stakeholder Consultation – Revised to include updated Project site visit with Beverly Ogle on December 2, 2014

SHPO Comment: Please develop a Historic Properties Management Plan that includes the recommendations made above, as well as complete analysis of effects and proposed mitigations, and submit it to my office for further review and comment.

Response: As discussed on our conference call on December 18, 2013, a Historic Properties Management Plan that includes the recommendations made above, as well as complete analysis of effects and proposed mitigations, will be submitted to the SHPO office for further review and comment concurrently with the FERC License Application Submittal.

Based on our Cultural Resource Inventory, the following sections of the report have been revised:

- Summary
- Appendix A – Maps revised, confidential set that includes all project features, roads, and sites within the APE
- Appendix E – Consultation-Added New Consultation Info
- Appendix F – Areas Surveyed-Added Updated Survey Info
- Appendix H – Maps and DPR forms 1358, 2113, 1835 updated, new DPRs 2LLHEP-JF-ISO-01 and 2LLHEP-JF-01 added
- Appendix I – Map updated
- Figures 1-2 updated
- Section 4.1, Pedestrian Archaeological Survey – Revised to include additional field survey dates January 6, 13, and 14, 2014
- Section 5, Archaeological and Architectural Inventory Results, 5.1, Previously Recorded Archaeological Sites – Revised to include updated information regarding CA-TEH-1358/H, -1490, -1835H, -2041H, and -2113H
Based on our Cultural Resource Inventory, we have made the following findings and recommendations for cultural resources within the APE:
Table 1. Archaeological and Architectural Resources Identified within the APE of the Lassen Lodge Hydroelectric Project

<table>
<thead>
<tr>
<th>Temporary Resource #</th>
<th>Trinomial/ Primary #</th>
<th>Resource Type</th>
<th>Description</th>
<th>NRHP/ CRHR Eligibility Recommendations</th>
<th>Within APE</th>
<th>Current Project Impacts</th>
<th>Management Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>CA-TEH-595</td>
<td>Prehistoric</td>
<td>Described as a destroyed village site.</td>
<td>Unknown</td>
<td>No</td>
<td>None. Site appears to have been destroyed and could not be relocated during Project Survey.</td>
<td>This site could not be relocated; therefore, it does not appear that it will be impacted by the current project. To err on the side of caution, the area near where the site was supposed to be located (previously recorded site boundary area) will be monitored during project construction and O&amp;M activities. Protection measures will be implemented as outlined in the HPMP.</td>
</tr>
<tr>
<td>--</td>
<td>CA-TEH-1358/H</td>
<td>Prehistoric</td>
<td>Lithic and tool scatter, midden, and possible burials.</td>
<td>Unevaluated/ Potentially Eligible</td>
<td>Yes-Dirt Access Roads</td>
<td>Yes, continued use (i.e., driving over roads) of the dirt access roads would impact site</td>
<td>Yes, continued use (i.e., driving over road) of the dirt access road would impact site. Recommend Avoidance Measures via capping of the roads prior to construction of the project. A capping plan will be developed and approved in consultation with the SHPO, FERC, Tribes and Stakeholders and will be included in the HPMP. If the site cannot be avoided, it will be formally evaluated for eligibility to the NRHP and CRHR. A site evaluation plan for the site will be developed, and approved in consultation with the SHPO, FERC, Tribes and stakeholders prior to construction of the Project. If the site is determined NRHP eligible then the appropriate mitigation will be determined in consultation with the SHPO, FERC, Tribes and stakeholders.</td>
</tr>
</tbody>
</table>
### Table 1. Archaeological and Architectural Resources Identified within the APE of the Lassen Lodge Hydroelectric Project

<table>
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<th>Within APE</th>
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<th>Management Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>CA-TEH-1490</td>
<td>Prehistoric</td>
<td>Lithic and tool scatter, site surface collected, tested and excavated in 1988</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Yes-Dirt Access Road</td>
<td>Yes, continued use (i.e., driving over road) of the dirt access road would impact site</td>
<td>Yes, continued use (i.e., driving over road) of the dirt access road would impact site. Recommend Avoidance Measures via capping of the roads prior to construction of the project. A capping plan will be developed and approved in consultation with the SHPO, FERC, Tribes and Stakeholders and will be included in the HPMP. If the site cannot be avoided, it will be formally evaluated for eligibility to the NRHP and CRHR. A site evaluation plan for this site will be developed, and approved in consultation with the SHPO, FERC, Tribes and stakeholders to construction of the Project. If the site is determined NRHP eligible then the appropriate mitigation will be determined in consultation with the SHPO, FERC, Tribes and stakeholders.</td>
</tr>
<tr>
<td>--</td>
<td>CA-TEH-1835H</td>
<td>Historic</td>
<td>Water conveyance system for logging-Last Chance Ditch</td>
<td>Recommended Not Eligible</td>
<td>Yes-Access Road, Penstock Pipeline</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>--</td>
<td>CA-TEH-2041H</td>
<td>Historic</td>
<td>Small sawmill remains and refuse scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes-Adjacent to Penstock Pipeline and access road</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>--</td>
<td>CA-TEH-2113H</td>
<td>Historic</td>
<td>Can scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes-Adjacent to Access Road and overhead Transmission Line</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
</tbody>
</table>
Table 1. Archaeological and Architectural Resources Identified within the APE of the Lassen Lodge Hydroelectric Project

<table>
<thead>
<tr>
<th>Temporary Resource #</th>
<th>Trinomial/Primary #</th>
<th>Resource Type</th>
<th>Description</th>
<th>NRHP/CRHR Eligibility Recommendations</th>
<th>Within APE</th>
<th>Current Project Impacts</th>
<th>Management Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLHEP-JF-01</td>
<td>TBD</td>
<td>Prehistoric</td>
<td>Lithic and tool scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Yes-Overhead Transmission Line</td>
<td>None, site will be avoided by construction or O&amp;M activities.</td>
<td>Avoidance. The site will be avoided during construction, as well as O&amp;M activities.</td>
</tr>
<tr>
<td>LLHEP-JF-04H</td>
<td>TBD</td>
<td>Historic</td>
<td>Refuse Scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes-Dirt Access Road</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>LLHEP-SK-01</td>
<td>TBD</td>
<td>Prehistoric</td>
<td>Lithic Scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Yes-Paved Access Road</td>
<td>None, the paved road that transects the site will not be altered or changed for the Project construction or O&amp;M activities.</td>
<td>Avoidance. The site will be avoided during construction, as well as O&amp;M activities. If Project-related changes to the road are planned in the future then testing and/or mitigation may be required.</td>
</tr>
<tr>
<td>LLHEP-SK-02H</td>
<td>TBD</td>
<td>Historic</td>
<td>Refuse Scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes, not within direct impact.</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>2LLHEP-JF-01H</td>
<td>TBD</td>
<td>Historic</td>
<td>Refuse Scatter</td>
<td>Recommended Not Eligible</td>
<td>Yes, not within direct impact</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
</tbody>
</table>

Previously Recorded Architectural (BSO) Resources

| --                    | P-52-002474         | Historic      | Road: Ponderosa Way | Recommended Eligible | Yes-Dirt Access Road | Road will be used by construction and O&M vehicles but will not be altered or changed. | The road will not be altered or changed for the Project construction, and O&M activities. If changes are planned in the future then mitigation may be required. Protection measures will be implemented as outlined in the HPMP. |
Table 1. Archaeological and Architectural Resources Identified within the APE of the Lassen Lodge Hydroelectric Project

<table>
<thead>
<tr>
<th>Temporary Resource #</th>
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<th>Resource Type</th>
<th>Description</th>
<th>NRHP/CRHR Eligibility Recommendations</th>
<th>Within APE</th>
<th>Current Project Impacts</th>
<th>Management Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>LLHEP-JF-05</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: Former SR 36</td>
<td>Recommended Eligible</td>
<td>Yes-Dirt Access Road</td>
<td>Road will be used by construction and O&amp;M vehicles but will not be altered or changed.</td>
<td>The road will not be altered or changed for the Project construction and O&amp;M activities. If changes are planned in the future, mitigation may be required. Protection measures will be implemented as outlined in the HPMP.</td>
</tr>
<tr>
<td>LLHEP-JF-06</td>
<td>TBD</td>
<td>Historic</td>
<td>Structures Lassen Lodge</td>
<td>Recommended Not Eligible</td>
<td>Yes-Visual</td>
<td>None, site is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>LLHEP-JF-09</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: South Powerhouse Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-Paved Access Road APE</td>
<td>None, lodge is recommended as not eligible to NRHP/CRHR</td>
<td>No further management.</td>
</tr>
<tr>
<td>LLHEP-JF-10</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: Manton School Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-Paved Access Road APE</td>
<td>None, road is recommended as not eligible to NRHP/CRHR</td>
<td>No further Management.</td>
</tr>
<tr>
<td>LLHEP-JF-11</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: Hazen Road</td>
<td>Recommended Not Eligible</td>
<td>Yes-Paved Access Road APE</td>
<td>None, road is recommended as not eligible to NRHP/CRHR</td>
<td>No further Management.</td>
</tr>
<tr>
<td>LLHEP-JF-12</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: unnamed dirt road</td>
<td>Recommended Not Eligible</td>
<td>Yes-Dirt Access Road APE</td>
<td>None, road is recommended as not eligible to NRHP/CRHR</td>
<td>No further Management.</td>
</tr>
<tr>
<td>LLHEP-JF-13</td>
<td>TBD</td>
<td>Historic</td>
<td>Road: unnamed dirt road</td>
<td>Recommended Not Eligible</td>
<td>Yes-Dirt Access Road APE</td>
<td>None, road is recommended as not eligible to NRHP/CRHR</td>
<td>No further Management.</td>
</tr>
</tbody>
</table>
Ms. Roland-Nawi  
State Historic Preservation Office  
Page 9

We request your concurrence on our revised APE, the results of our cultural resources inventory, as documented in the attached report. We also request your concurrence with our recommendations for NRHP and CRHR eligibility, and management for each cultural resource as detailed in the previous table and in the attached report.

In order to meet our Power Purchase Agreement (PPA) contract deadline that was awarded for the Project by San Diego Gas & Electric Co. (SDG&E) in the Renewable Auction Mechanism (RAM) II procurement that took place in May of 2012, the Project is on a very tight schedule. We look forward to receiving your comments and/or concurrence within 30 days of receipt of this documentation; however, if your office can expedite the review to help facilitate our company’s time line, it would be greatly appreciated.

Please reference “Lassen Lodge Hydroelectric Project FERC Project No. 12496-000-California” in your correspondence. If you have any questions, comments, or need further information, please call Jenna Farrell, Archaeologist, at Tetra Tech, Inc., 2969 Prospect Park Dr. #100, Rancho Cordova, CA 95670, phone 916-853-4575, or email jenna.farrell@tetratech.com. If Jenna cannot be reached, please call Lynn Compas, Senior Archaeologist, at HRA, Inc., 1904 Third Avenue, Suite 240, Seattle, WA 98101, phone 206-434-0226x12, or email lcompas@hrassoc.com.

Sincerely,

Jim Tompkins  
Vice President - Senior Project Manager  
Rugraw, Incorporated

cc: Jessica Tudor, SHPO FERC Review, and Compliance,  
Kathleen Forest, SHPO Historian, Review, and Compliance,  
Susan Stratton, SHPO Project Review Unit Supervisor,  
Frank Winchell Ph.D., FERC Cultural Resource Specialist,  
Tribal service list, Project service list

Attachment 1 Maps
December 10, 2013

Jim Tompkins
Vice President-Senior Project Manager
Rugraw, Incorporated
P.O. Box 421
Tiburon, CA 94920

RE: Section 106 Consultation Lassen Lodge Hydroelectric Project, Tehama County, CA (FERC Project No. 1296-000-California)

Dear Mr. Tompkins:

Thank you for your letter dated October 25, 2013, continuing consultation with me on behalf of the FERC for the above referenced project in order to comply with Section 106 of the National Historic Preservation Act and its implementing regulations at 36 CFR 800. You are requesting that I concur with your recommendations for National Register of Historic Places (NRHP) eligibility, findings of effect, and management recommendations for the undertaking. In addition to your letter, you have submitted the following document:

- Cultural Resources Inventory Lassen Lodge Hydroelectric Project FERC License No. 12496 South Fork Battle Creek, Tehama County, California (Tetra Tech 2013)

As I understand it, Rugraw, Inc. is seeking a FERC license for a project that proposes to construct a small hydroelectric facility on the Upper South Fork Battle Creek, on the western slopes of the Cascade Range approximately 3 miles west of the town of Mineral, an unincorporated community in Tehama County, California. The project is on private land with the exception of 1 mile that is within a county road right-of-way (ROW). The APE for the project consists of both an indirect and a direct APE. The direct APE consists of surfaces and depths that will be disturbed within the project footprint and includes 2 acres of diversion and intake structures, 3.5 acres for a powerhouse, 3.2 acres of multipurpose areas, a 1 acre transition structure, a penstock pipeline measuring 120 ft. wide by 2.4 miles long, 2.9 acres for a potential tower location, a transmission line measuring 120 ft. wide by 12 miles long, a station service line measuring 120 ft. long by .4 miles long, and transmission line pulling areas. The acreage included for each proposed facility of the project includes the total width of disturbance, proposed travel ways and workspace. The proposed indirect APE generally includes the direct APE, as well as historic viewsheds within the study area. The proposed vertical APE extends from approximately 60 ft. above the existing ground surface to approximately 20 ft. below the ground surface.

Rugraw, Inc. has hired Tetra Tech, Inc. to identify historic properties within the APE for the undertaking. Tetra Tech conducted a literature review and records search between August and December, 2013 identifying three previously recorded archaeological sites and two previously recorded historic sites within the APE. An archaeological and architectural survey was conducted of the APE in August, 2013, identifying four previously unknown archaeological sites and six previously unidentified isolates. All but one of the previously recorded sites were relocated and re-recorded during the field inventory. Eight architectural resources were identified within the APE.
All archaeological resources were recorded but have not yet been evaluated for NRHP eligibility. However, architectural resources in the APE have been evaluated. Your submission also included findings of effect and management recommendations for the resources in the APE as detailed below.

<table>
<thead>
<tr>
<th>Resource</th>
<th>NRHP Eligibility Recommendation</th>
<th>Finding of Effect</th>
<th>Management Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-TEH-1358-lithic scatter, midden, possible burials</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Adverse Effect</td>
<td>Continued use of road will continue to impact site and it should be tested for NRHP eligibility.</td>
</tr>
<tr>
<td>CA-TEH-1490-lithic scatter, tested &amp; excavated in 1988</td>
<td>Unevaluated/Potentially Eligible</td>
<td>Adverse Effect</td>
<td>Continued use of road will continue to impact site and it should be tested for NRHP eligibility.</td>
</tr>
<tr>
<td>CA-TEH-1835-Last Chance Ditch</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>CA-TEH-2041-Sawmill remains and associated refuse</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>CA-TEH-2113-historic can scatter</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-01-prehistoric lithic scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>No Effect</td>
<td>Avoidance- orange hazard fencing</td>
</tr>
<tr>
<td>LLHEP-JF-04-historic refuse scatter</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-SK-01-prehistoric lithic scatter</td>
<td>Unevaluated/Potentially Eligible</td>
<td>No Effect</td>
<td>Avoidance-road transecting site will not be altered.</td>
</tr>
<tr>
<td>LLHEP-SK-02-historic refuse scatter/cans</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-05-Historic road segment</td>
<td>Recommended Eligible</td>
<td>No Effect</td>
<td>The road will not be altered or changed for the project.</td>
</tr>
<tr>
<td>LLHEP-JF-06-Lassen Lodge</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-09-South Powerhouse Road</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-10-Manton School Road</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-11-Hazen Road</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-12-unnamed two-track dirt road</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
<tr>
<td>LLHEP-JF-13-unnamed two-track dirt road</td>
<td>Recommended Not Eligible</td>
<td>No Effect</td>
<td>No further management</td>
</tr>
</tbody>
</table>

After reviewing the report you provided, I have the following comments:

- Pursuant to 36 CFR 800.5 I cannot concur with your finding of no effect for historic roads and historic properties located within or adjacent to a road that will be used by construction vehicles to access construction locations. A traffic analysis would determine whether the roads are currently able to accommodate such traffic without damage. Please synthesize the results of a traffic analysis study into your next report.
- I cannot concur with your recommendation that Lassen Lodge (LLHEP-JF-06) is not eligible, or with your finding of no effect for this resource. Your evaluation efforts did not include the entirety of the site, nor did you sufficiently consider the potential visual
effects of the proposed transmission line through the valley below the Lassen Lodge. While my staff did agree that recordation from the right-of-way was adequate for initial evaluation, due to the extent of the property and the location of any potential impacts I recommend requesting access to the entire property to perform a full evaluation of Lassen Lodge, including whether or not the landscape would be a contributing feature. This would facilitate a complete analysis of the potential impact the proposed transmission line might have on the integrity of the property.

- I recommend that the archaeological sites that are within or adjacent to the APE be evaluated; and further recommend that your evaluations of all resources within the APE consider a landscape approach to determine if any potential cultural landscapes or Traditional Cultural Properties are present within the APE.
- The maps of the project APE do not sufficiently depict the sensitive areas of the APE. Please provide an APE map that includes the roads that will be used and/or altered during the course of the project, and the locations of archaeological and architectural resources on one map.
- Please develop a Historic Properties Management Plan that includes the recommendations made above, as well as complete analysis of effects and proposed mitigations, and submit it to my office for further review and comment.

Thank you for considering historic properties as part of your project planning. I look forward to continuing consultation on this project. Please direct any questions or concerns that you may have to Jessica Tudor at 916-445-7016 or email at Jessica.tudor@parks.ca.gov or to Kathleen Forrest at 916-445-7022 or email at Kathleen.forrest@parks.ca.gov.

Sincerely,

Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer