

APPENDIX 5.3A

## Agency Consultation Letters

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**CH2M HILL**  
215 South State Street  
Suite 1000  
Salt Lake City, UT 84111  
**Tel 801.350.5242**  
**Fax 801.322.8242**

June 21, 2007

Robin Laska  
San Bernardino Archeological Information Center  
San Bernardino County Museum  
2024 Orange Tree Lane  
Redlands, CA 92374

RE: Ivanpah Solar Electric Generating System

Dear Ms. Laska:

On December 18, 2006 Mr. Clint Helton from CH2M HILL requested a file search under the project heading Solar Power Plant Fatal Flaw Analysis. We received a response from your office dated December 20, 2006. Unfortunately, since then the California Energy Commission (CEC) has changed their requirements for Applications for Certification and we need to extend the file search to meet the new CEC requirements.

I have included a series of maps showing the project location – one overview and a series of maps at 1:24000 scale. This file search will need to include the project locations and a one-mile buffer around the block areas and a .25 mile buffer around project linears. The buffers are reflected on the attached maps.

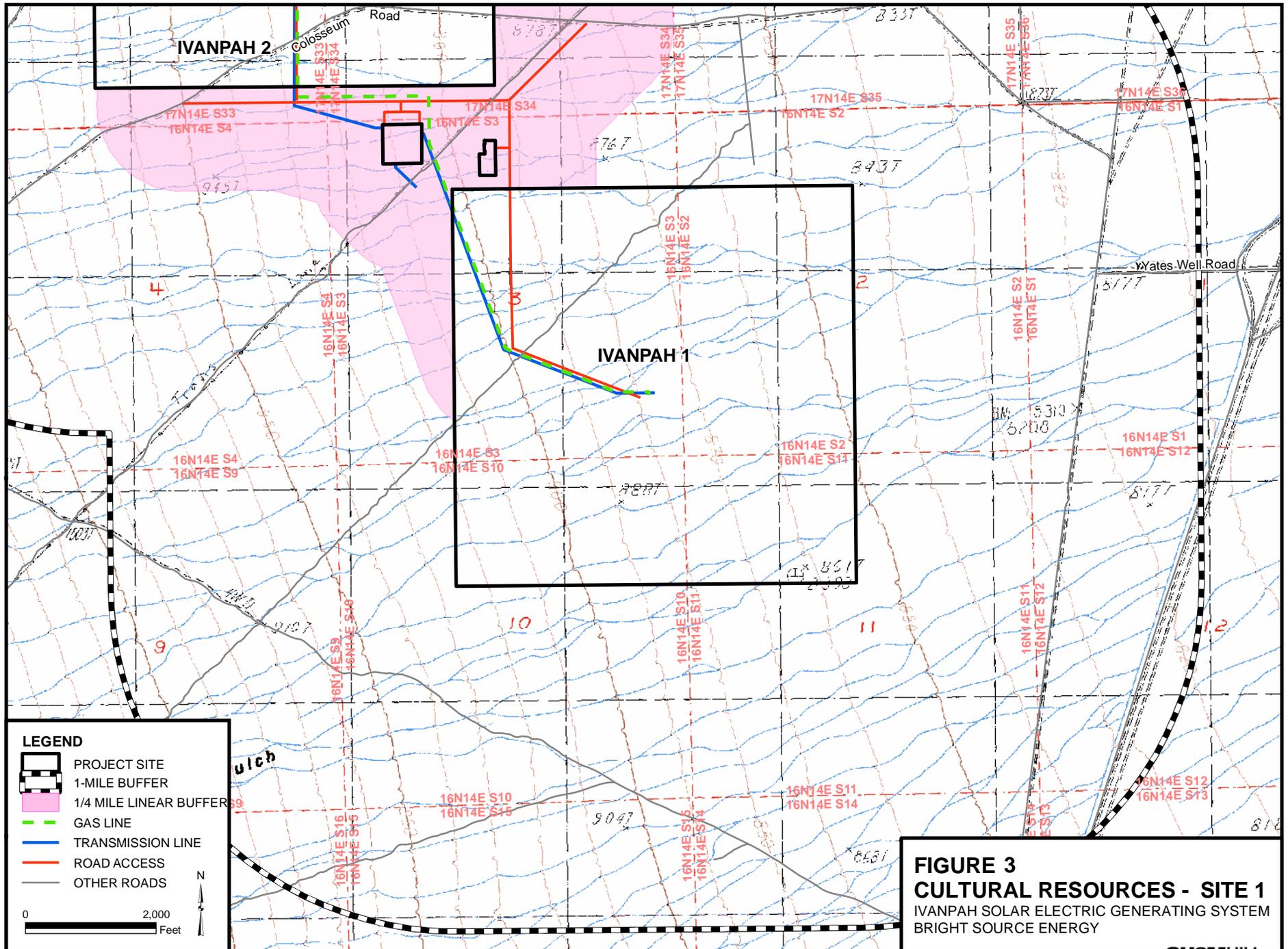
I am requesting an expedited file search and approve the additional fees. Please reference Project Number 357891.TM.FS on your invoice.

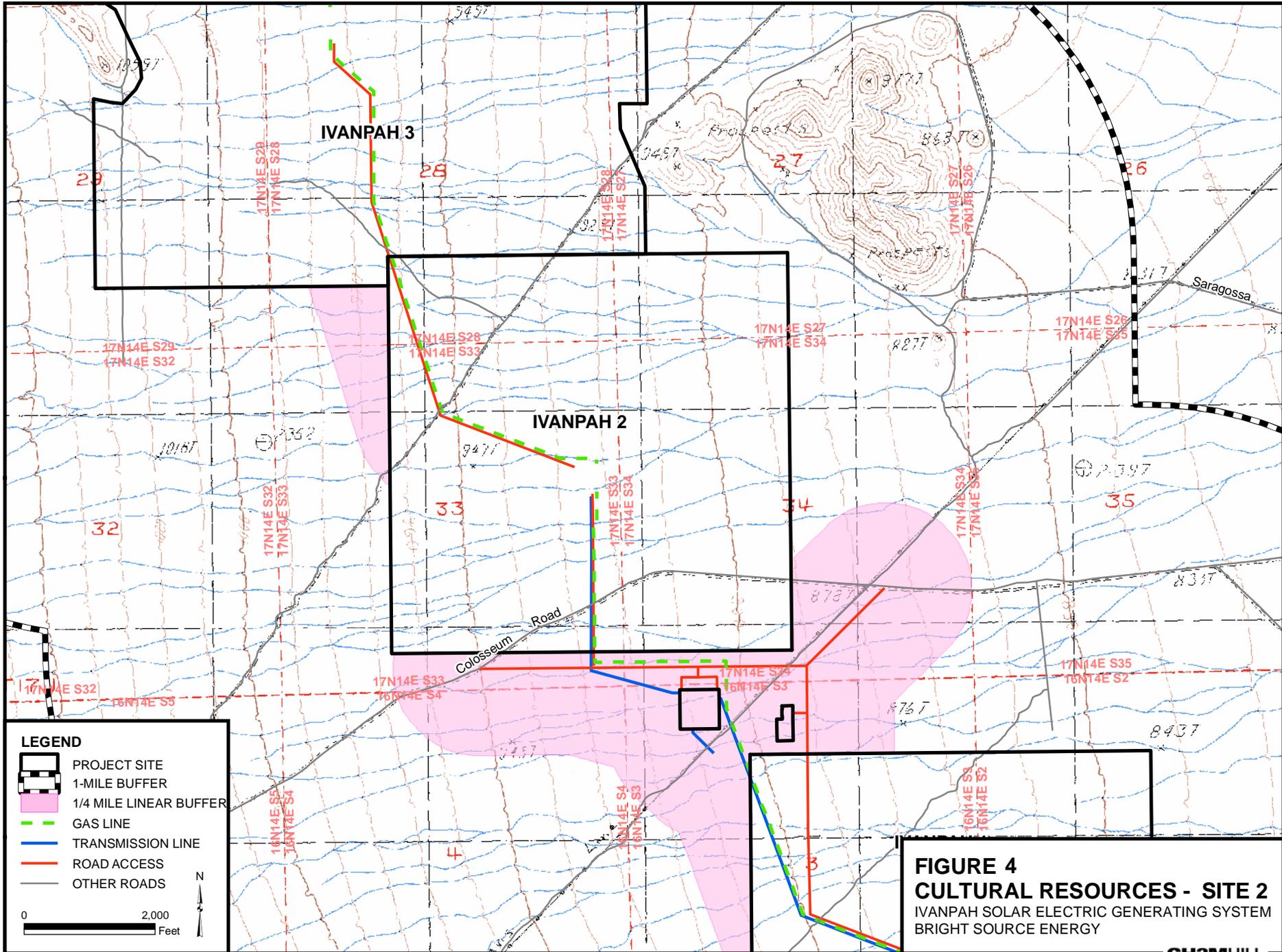
I can be reached by phone at 801-350-5242 or by email at [aaron.fergusson@ch2m.com](mailto:aaron.fergusson@ch2m.com).

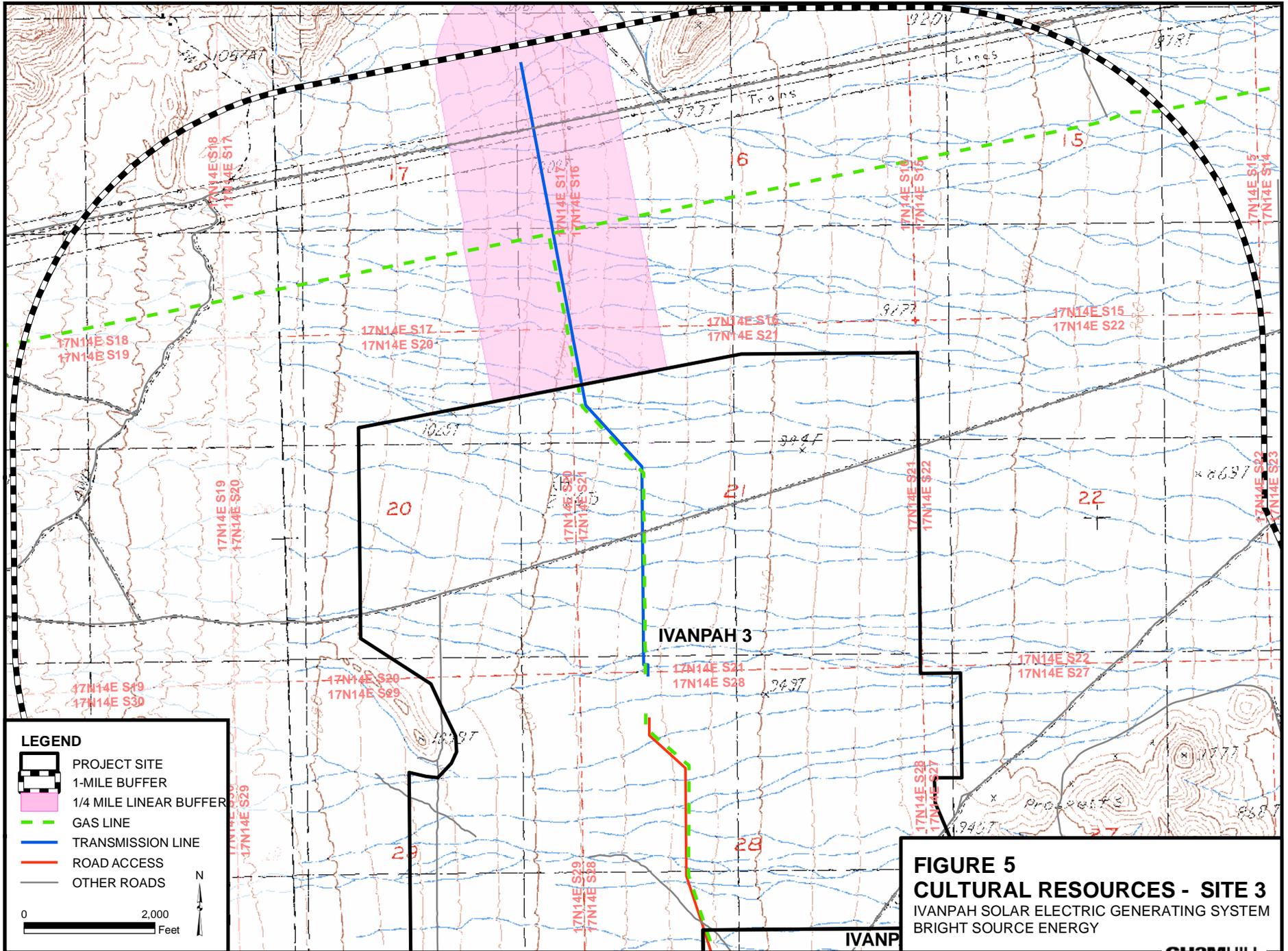
Best Regards,

A handwritten signature in blue ink, appearing to read "A. Fergusson".

Aaron Fergusson







**LEGEND**

- PROJECT SITE
- 1-MILE BUFFER
- 1/4 MILE LINEAR BUFFER
- GAS LINE
- TRANSMISSION LINE
- ROAD ACCESS
- OTHER ROADS

0 2,000 Feet

N

**FIGURE 5**  
**CULTURAL RESOURCES - SITE 3**  
 IVANPAH SOLAR ELECTRIC GENERATING SYSTEM  
 BRIGHT SOURCE ENERGY



**CH2M HILL**  
3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707  
**Tel 714.429.2000**  
**Fax 714.429.2050**

June 27, 2007

357891.TM.PS

Mr. Dave Singleton  
Native American Heritage Commission  
915 Capitol Mall, Room 364  
Sacramento, CA 95814

Subject: Ivanpah Solar Electric Generating System

Dear Dave,

CH2M HILL is assisting Bright Source Energy, Inc. with the preparation of an Application for Certification (AFC) before the California Energy Commission (CEC) for a new solar electric power plant located in the San Bernardino County to be called the Ivanpah Solar Electric Generating System. Please see the enclosed study area map (Ivanpah Lake 7.5 Minute USGS quadrangle).

We would appreciate your checking the Sacred Lands Files to see if there are any culturally sensitive areas within the immediate project vicinity. We would also like to receive a list of MLD's appropriate for this area since we will attempt to contact local Indian groups to solicit their written input/concerns about the project.

Due to schedule constraints, we request that you conduct this search on an **expedited** priority basis.

Thanks again for your cooperation and assistance. We look forward to your earliest possible reply. If you have any questions, please call me at 714-435-6140.

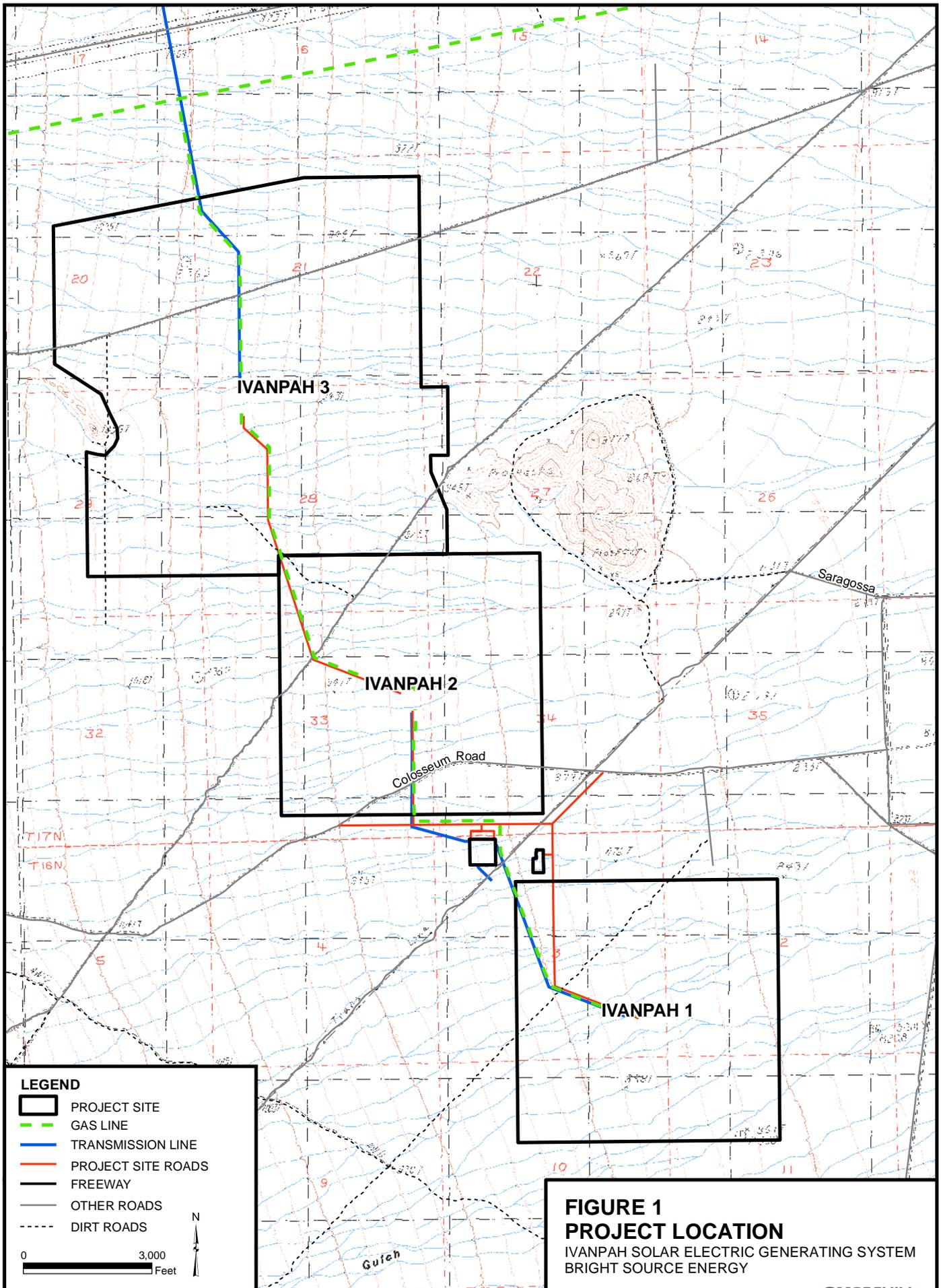
Sincerely,

CH2M HILL

A handwritten signature in blue ink, appearing to read "Clint Helton".

Clint J. Helton, M.A., RPA  
Project Scientist

Enclosures: Project Location Map



STATE OF CALIFORNIA

Arnold Schwarzenegger, Governor

**NATIVE AMERICAN HERITAGE COMMISSION**

915 CAPITOL MALL, ROOM 364  
SACRAMENTO, CA 95814  
(916) 653-6251  
Fax (916) 657-5390  
Web Site [www.nahc.ca.gov](http://www.nahc.ca.gov)  
e-mail: [ds\\_nahc@pacbell.net](mailto:ds_nahc@pacbell.net)



June 29, 2007

Clint J. Helton, M.A., RPA  
Project Scientist  
CH2MHILL  
3 Hulton Centre Drive, Suite 200  
Santa Ana, CA 92707

Sent by FAX: 714-429-2050  
Number of pages: 3

Re: Proposed Ivanpah Solar Electric Generating System; San Bernardino County

Dear Mr. Helton:

The Native American Heritage Commission was able to perform a record search of its Sacred Lands File (SLF) for the affected project area. The SLF failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the Sacred Lands File does not guarantee the absence of cultural resources in any 'area of potential effect (APE).'

Early consultation with Native American tribes in your area is the best way to avoid unanticipated discoveries once a project is underway. Enclosed are the nearest tribes that may have knowledge of cultural resources in the project area. A List of Native American contacts are attached to assist you. The Commission makes no recommendation of a single individual or group over another. It is advisable to contact the person listed; if they cannot supply you with specific information about the impact on cultural resources, they may be able to refer you to another tribe or person knowledgeable of the cultural resources in or near the affected project area (APE).

Lack of surface evidence of archeological resources does not preclude the existence of archeological resources. Lead agencies should consider avoidance, as defined in Section 15370 of the California Environmental Quality Act (CEQA) when significant cultural resources could be affected by a project. Also, Public Resources Code Section 5097.98 and Health & Safety Code Section 7050.5 provide for provisions for accidentally discovered archeological resources during construction and mandate the processes to be followed in the event of an accidental discovery of any human remains in a project location other than a 'dedicated cemetery. Discussion of these should be included in your environmental documents, as appropriate.

If you have any questions about this response to your request, please do not hesitate to contact me at (916) 653-6251.

Sincerely,

A handwritten signature in black ink, appearing to read "Dave Singleton".

Dave Singleton  
Program Analyst

Attachment: Native American Contact List

**Native American Contacts**  
**San Bernardino County**  
**June 28, 2007**

**Cahuilla Band of Indians**  
**Anthony Madrigal, Jr., Interim-Chairperson**  
P.O. Box 391760                      Cahuilla  
Anza                      , CA 92539  
tribalcouncil@cahuilla.net  
(951) 763-2631

(951) 763-2632 Fax

**Ramona Band of Mission Indians**  
**Joseph Hamilton, vice chairman**  
P.O. Box 391670                      Cahuilla  
Anza                      , CA 92539  
admin@ramonatribe.com  
(951) 763-4105  
(951) 763-4325 Fax

**San Manuel Band of Mission Indians**  
**Henry Duro, Chairperson**  
26569 Community Center Drive                      Serrano  
Highland                      , CA 92346  
(909) 864-8933  
(909) 864-3370 Fax

**Chemehuevi Reservation**  
**Charles Wood, Chairperson**  
P.O. Box 1976                      Chemehuevi  
Chemehuevi Valley , CA 92363  
chemehuevit@yahoo.com  
(760) 858-4301  
(760) 858-5400 Fax

**AhaMaKav Cultural Society, Fort Mojave Indian Tribe**  
**Linda Otero, Director**  
P.O. Box 5990                      Mojave  
Mohave Valley , AZ 86440  
ahamakav@citlink.net  
(928) 768-4475  
(928) 768-7996 Fax

**Morongo Band of Mission Indians**  
**Britt W. Wilson, Cultural Resources-Project Manager**  
49750 Seminole Drive                      Cahuilla  
Cabazon                      , CA 92230                      Serrano  
britt\_wilson@morongo.org  
(951) 755-5206  
(951) 755-5200/323-0822-cell  
(951) 922-8146 Fax

**San Manuel Band of Mission Indians**  
**Ann Brierty, Environmental Department**  
101 Pure Water Lane                      Serrano  
Highland                      , CA 92346  
abrierty@sanmanuel-nsn.gov  
(909) 863-5899 EXT-4321

(909) 862-5152 Fax

**Fort Mojave Indian Tribe**  
**Esadora Evanston, Environmental Coordinator**  
500 Merriman Ave                      Mojave  
Needles                      , CA 92363  
region9epa@ftmojave.com  
(760) 326-1112  
(760) 629-4591  
(760) 629-5767 Fax

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 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American with regard to cultural resources for the proposed Ivanpah Solar Electric Generating System Project located in San Bernardino County, California for which a Sacred Lands file search was requested.

**Native American Contacts  
San Bernardino County  
June 28, 2007**

**Serrano Band of Indians  
Goldie Walker  
6588 Valeria Drive Serrano  
Highland, CA 92346  
(909) 862-9883**

**Cahuilla Band of Indians  
Maurice Chacon, Cultural Resources  
P.O. Box 391760 Cahuilla  
Anza, CA 92539  
cbandodian@aol.com  
(951) 763-2631**

**(951) 763-2632 Fax**

**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 5097.98 of the Public Resources Code.**

**This list is only applicable for contacting local Native American with regard to cultural resources for the proposed Ivanpah Solar Electric Generating System Project located in San Bernardino County, California for which a Sacred Lands file search was requested.**



**CH2M HILL**  
3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707  
**Tel 714.429.2000**  
**Fax 714.429.2050**

Copy of letter sent to all 10 Native American Contacts provided by NAHC  
June 29, 2007

Cahuilla Band of Indians  
Maurice Chacon, Cultural Resources  
P.O. Box 391760  
Anza, CA 92539

357891.tm.ps

Re: Ivanpah Solar Electric Generating System

Dear Mr. Maurice Chacon:

CH2M HILL is assisting Bright Source Energy, Inc. with the preparation of an Application for Certification (AFC) before the California Energy Commission (CEC) for a new solar electric power plant located in the San Bernardino County to be called the Ivanpah Solar Electric Generating System. Please see the enclosed study area map (Ivanpah Lake 7.5 Minute USGS quadrangle).

A search of the Sacred Land files by the Native American Heritage Commission (NACH) in June 2007 failed to indicate the presence of Native American sacred sites in the immediate Project vicinity.

If you know of any traditional cultural properties or values (e.g., burial sites, religious sites, or gathering sites) within the Project area shown on the enclosed map, or if you have any concerns regarding issues related to the overall Project, please contact me at (714) 435-6140 or by mail; you may also contact me at [chelton@ch2m.com](mailto:chelton@ch2m.com).

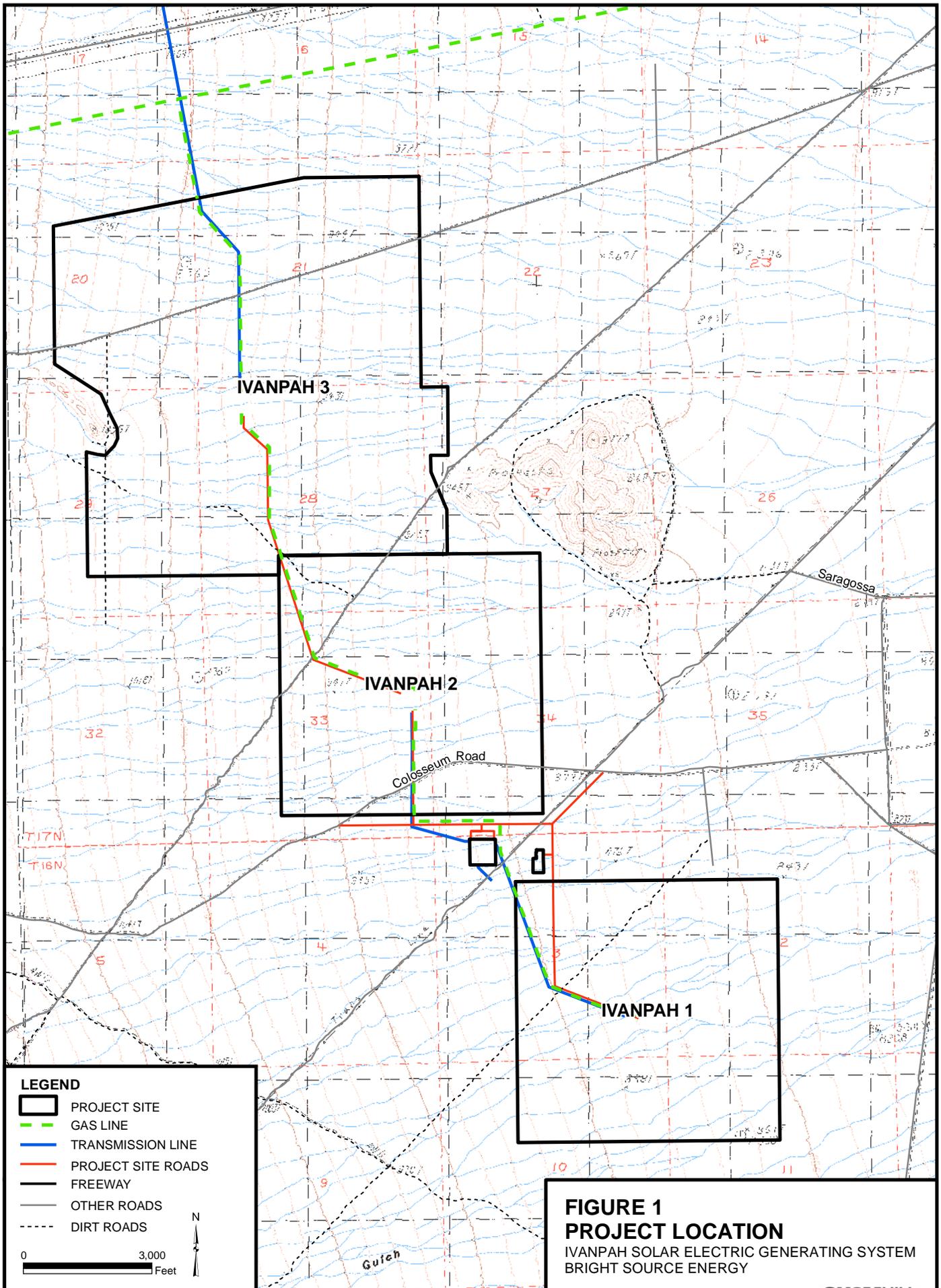
Your project comments and concerns are important to us. I look forward to hearing from you in the near future.

Respectfully yours,

A handwritten signature in blue ink, appearing to read "Clint Helton".

Clint Helton, RPA  
Project Scientist

cc: File  
Enclosure – Map of Project Area



**IVANPAH SOLAR ELECTRIC GENERATING SYSTEM**

**CONSULTATION LETTERS TO NATIVE AMERICAN CONTACTS PROVIDED BY NAHC**

<b>RECIPIENT</b>	<b>DATE SENT</b>	<b>LETTER MAILED</b>	<b>FAXED</b>	<b>E-MAILED</b>	<b>COMMENTS RECEIVED (FROM LETTER)</b>	<b>FOLLOW UP PHONE CALL</b>	<b>COMMENTS SUMMARY (FROM PHONE)</b>
Cahuilla Band of Indians Anthony Madrigal, Jr., Interim-Chairperson P.O. Box 391760 Anza, CA 92539 <a href="mailto:tribalcouncil@cahuilla.net">tribalcouncil@cahuilla.net</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
Ramona Band of Mission Indians Joseph Hamilton, Vice Chairman P.O. Box 391670 Anza, CA 92539 <a href="mailto:admin@ramonatribe.com">admin@ramonatribe.com</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
San Manuel Band of Mission Indians Henry Duro, Chairperson 26569 Community Center Drive Highland, CA 92346	<b>6.29.07</b>	<b>X</b>	<b>X</b>				

**IVANPAH SOLAR ELECTRIC GENERATING SYSTEM**

**CONSULTATION LETTERS TO NATIVE AMERICAN CONTACTS PROVIDED BY NAHC**

<b>RECIPIENT</b>	<b>DATE SENT</b>	<b>LETTER MAILED</b>	<b>FAXED</b>	<b>E-MAILED</b>	<b>COMMENTS RECEIVED (FROM LETTER)</b>	<b>FOLLOW UP PHONE CALL</b>	<b>COMMENTS SUMMARY (FROM PHONE)</b>
Chemehuevi Reservation Charles Wood, Chairperson P.O. Box 1976 Chemehuevi Valley, CA 92363 <a href="mailto:chemehuevit@yahoo.com">chemehuevit@yahoo.com</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
AhaMaKav Cultural Society, Fort Mojave Indian Tribe Linda Otero, Director P.O. Box 5990 Mohave Valley, AZ 86440 <a href="mailto:ahamakav@citilnk.net">ahamakav@citilnk.net</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
Morongó Band of Mission Indians Britt W. Wilson, Cultural Resources-Project Manager 49750 Seminole Drive Cabazon, CA 92230 <a href="mailto:Britt_wilson@morongo.org">Britt_wilson@morongo.org</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			

**IVANPAH SOLAR ELECTRIC GENERATING SYSTEM**

**CONSULTATION LETTERS TO NATIVE AMERICAN CONTACTS PROVIDED BY NAHC**

<b>RECIPIENT</b>	<b>DATE SENT</b>	<b>LETTER MAILED</b>	<b>FAXED</b>	<b>E-MAILED</b>	<b>COMMENTS RECEIVED (FROM LETTER)</b>	<b>FOLLOW UP PHONE CALL</b>	<b>COMMENTS SUMMARY (FROM PHONE)</b>
San Manuel Band of Mission Indians Ann Brierty, Environmental Department 101 Pure Water Lane Highland, CA 92346 <a href="mailto:abrierty@sanmanuel-nasn.gov">abrierty@sanmanuel-nasn.gov</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
Fort Mojave Indian Tribe Esadora Evanston, Environmental Coordinator 500 Merriman Ave. Needles, CA 92363 <a href="mailto:Region9epa@ftmojave.com">Region9epa@ftmojave.com</a>	<b>6.29.07</b>	<b>X</b>		<b>X</b>			
Serrano Band of Indians Goldie Walker 6588 Valeria Drive Highland, CA 92346	<b>6.29.07</b>	<b>X</b>					

**IVANPAH SOLAR ELECTRIC GENERATING SYSTEM**

**CONSULTATION LETTERS TO NATIVE AMERICAN CONTACTS PROVIDED BY NAHC**

<b>RECIPIENT</b>	<b>DATE SENT</b>	<b>LETTER MAILED</b>	<b>FAXED</b>	<b>E-MAILED</b>	<b>COMMENTS RECEIVED (FROM LETTER)</b>	<b>FOLLOW UP PHONE CALL</b>	<b>COMMENTS SUMMARY (FROM PHONE)</b>
Cahuilla Band of Indians Maurice Chacon, Cultural Resources P.O. Box 391760 Anza, CA 92539 <a href="mailto:cbandodian@aol.com">cbandodian@aol.com</a>	6.29.07	X		X			“ ” .”

**IVANPAH SOLAR ELECTRIC GENERATING SYSTEM  
CONSULTATION RECORD TO LOCAL HISTORICAL SOCIETIES**

<b>HISTORICAL SOCIETY / ORGANIZATION</b>	<b>Date &amp; Time</b>	<b>Comments Summary</b>
<b>San Bernardino Historical and Pioneer Society</b> 796 N "D" Street PO Box 875 San Bernardino, CA 92402 (909) 885-2204	<b>6/27/07</b>  <b>1:30 pm</b>  Left message for Steve Shaw, President, in voicemail.	<b>No Comments Received</b>
<b>Nevada State Museum and Historical Society</b> 700 Twin Lakes Drive Las Vegas, NV 89107 (702) 486-5205	<b>6/28/07</b>  <b>1:39 pm</b>  Left message for David Millman, Curator of Collections/History, in voicemail.	<b>No Comments Received</b>

CONFIDENTIAL APPENDIX 5.3B

# Technical Reports

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APPENDIX 5.3B

## Technical Reports (Confidential)

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Appendix 5.3B, Technical Reports, was submitted separately under a request for confidentiality.

CONFIDENTIAL APPENDIX 5.3C

# CHRIS Literature Search Results

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APPENDIX 5.3C

# CHRIS Literature Search Results (Confidential)

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Appendix 5.3C, CHRIS Literature Search Results, was submitted separately under a request for confidentiality.

APPENDIX 5.3D

## Cultural Qualifications

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# **Raena Ballantyne**

## **Cultural Resource Specialist**

### **Historical Archaeologist**

#### **Education**

B.S., Anthropology, Brigham Young University, 2002

M.A., Historic Preservation, University of Oregon, (no degree yet earned)

#### **Professional Registrations**

Permitted: Archaeological Field Supervisor, Utah, 2001

Permitted: Archaeological Field Supervisor, Wyoming, 2006

#### **Distinguishing Qualifications**

- 9 years of experience in cultural resource management including 3 years with the Forest Service and 6 years in private consultation
- Understanding of NEPA, Section 106 and 110, ARPA, NAGPRA, Section 4(f), SEPA, SEQA, and other federal, state, and local legislation regulating cultural resource management
- Specialization in historic archaeology and built environment resource documentation and evaluation
- Has served as cultural resource specialist on numerous remediation projects, utility projects, and transportation projects

#### **Relevant Experience**

Ms. Ballantyne brings nine years of professional cultural resource agency and consulting experience to CH2M HILL's Transportation Business Group in Spokane, Washington. She received her BS in Anthropology from Brigham Young University and attended the University of Oregon's Historic Preservation Master's Program for one year. She has conducted State Historic Preservation Office (SHPO) file and literature searches, has researched cultural and environmental contexts, has completed chain-of-title and tax lot research, and primary historical research at county, city, and state libraries, historical societies, museums, and county assessor offices in Washington, Oregon, California, Idaho, Utah, Nevada, Wyoming, and Alaska. She is adept at conducting field inventory surveys for prehistoric and historic archaeological sites as well as resources of the built environment. Ms. Ballantyne routinely performs subsurface testing and data recovery of historic and prehistoric archaeological sites, supervises archaeological laboratories, has documented hundreds of archaeological sites and built-environment resources, assists in preparing Determinations of Eligibility (DOE), and has authored numerous technical memoranda and EIS/NEPA documents. Ms. Ballantyne specializes in historic archaeology and built-environment studies, particularly those relating to industrial and rural sites.

## **Representative Projects**

### ***Transportation***

#### **Washington Transportation Projects**

**Cultural Resource Specialist; WSDOT-Tacoma HOV Projects; Tacoma, Washington; 2004-ongoing.** Performed DAHP literature searches, DNR GLO map research, geomorphological research, and WSDOT project archived research for the project areas; coordinated with project team members on archaeological field survey schedules; conducted archaeological inventories and subsurface testing within select project areas; authored and co-authored technical memoranda for the projects.

**Cultural Resource Specialist; I-5 Everett HOV Design-Build Project; Everett, Washington; 7/2005-8/2005.** Performed subsurface testing, archaeological inventory, and documentation of cultural resources in the proposed project area. Documented and mapped cultural resources. Contributed to the final report.

#### **Idaho Transportation Projects**

**Historical Archaeologist/Laboratory Director; South Sandcreek Byway Project; Sandpoint, Idaho; 2/2005-ongoing.** Performed primary and secondary historical research; contributed to the project's research design; designed, built, and managed an MS Access database for the artifact collection; designed and directed laboratory procedures for the fieldwork, including artifact collection, washing, analysis, data entry, labeling, cataloging, and curation preparation; supervised laboratory technicians in field lab work; coordinated with curation facility personnel regarding curation standards; managed the artifact collection of over 100,000 artifacts from multiple archaeological sites; managed all paperwork generated by the data recovery efforts; contributed to the forthcoming technical report.

#### **Oregon Transportation Projects**

**Cultural Resource Specialist; Oleson Road Project; Washington County; Portland, Oregon; 4/2004-10/2004.** Performed a site record and literature search at the Oregon SHPO; performed a pedestrian archaeological survey of the project area; completed a built-environment survey of the project area; documented historic and built-environment resources using digital and black-and-white photographs, written descriptions, and GPS data collection; completed Section 106 documentation forms and Determination of Eligibility forms (DOE); analyzed project impacts to historic resources and completed level of effect (LOE) forms; authored the technical memorandum; authored the mitigation plan and corresponded with private landowners and project planners to minimize impacts to NRHP listed properties; received SHPO concurrence for DOEs, LOEs, conclusions, and mitigation measures.

**Cultural Resource Specialist; Woodburn Interchange; ODOT; Woodburn, Oregon; 10/2003-1/2004.** Performed a site record and literature search at the Oregon SHPO; performed a pedestrian cultural resource inventory survey of the project area; documented cultural resources; assessed project impacts to historic and prehistoric cultural resources.

**Archaeologist; Delta Park Victory to Lombard; ODOT; Portland, Oregon; 6/2004-6/2005.** Assisted in creating, revising, and amending project scopes and budgets for cultural resource tasks. Performed a site record and literature search at the Oregon SHPO; performed a pedestrian cultural resource inventory survey of the project area; identified locations where subsurface archaeological testing would be appropriate; completed archaeological subsurface testing and screening; GPSed the test locations;

documented cultural resources and evaluated their NRHP significance; evaluated project impacts to cultural resources; authored the archaeological evaluation technical memorandum and EIS section.

**Cultural Resource Specialist; Olex-Rock Creek Grade Project; ODOT; Olex, Oregon; 6/2003-4/2004.** Performed a site record and literature search at the Oregon SHPO; performed a pedestrian cultural resource inventory survey of the ~70-acre project area; completed a pedestrian inventory survey of the project area; documented historic buildings using digital and black-and-white photographs, written descriptions, and GPS data collection; completed Section 106 documentation forms; authored the technical memorandum.

**Cultural Resource Specialist; North Ontario Interchange Project; ODOT; Ontario, Oregon; 6/2003-4/2004.** Performed a site record and literature search at the Oregon SHPO; completed a "fatal-flaws" level analysis of cultural resources; designed a field inventory and archaeological testing methodology plan for further work; co-authored a technical memorandum describing the field methodology and fatal flaws analysis.

**Cultural Resource Specialist/Fisheries Biologist Assistant; Pioneer Mountain to Eddyville; ODOT; Eddyville, Oregon; 4/2003-1/2004.** Performed a pedestrian cultural resource inventory survey of the project area; documented cultural resources; assessed project impacts to historic and prehistoric cultural resources; performed subsurface archaeological testing and screening; GPSed testing locations; authored the technical report and EIS cultural resource section. Assisted in stream mapping and fisheries survey with fisheries biologist.

#### **Alaska Transportation Projects**

**Cultural Resource Specialist; South Mitkof Island Ferry; ADOT&PF; Petersburg, Alaska; 9/2003-4/2004.** Performed a pedestrian inventory survey of the ~1 mile long project corridor; tested for subsurface archaeological deposits in some places; analyzed project impacts to known archaeological and historic resources in the project vicinity; authored the cultural resource technical memorandum.

**Cultural Resource Specialist; Talkeetna Airport Project; ADOT&PF and the Federal Aviation Administration (FAA); Talkeetna, Alaska; 7/2003-2/2004.** Performed a site file and literature search at the Alaska SHPO; performed a cultural resource pedestrian inventory survey for the ~100 acre project area; performed historical, prehistoric, and environmental context research at local libraries, historical societies, agencies, etc. for the project area; analyzed project alternatives according to impacts to cultural resources; authored the cultural resource technical memorandum and made recommendations for alternatives that minimize impacts to cultural resources.

**Cultural Resource Specialist; New Seward Highway; ADOT&PF; Anchorage, Alaska; 6/2003-12/2003.** Performed a site file and literature search at the Alaska SHPO; performed a cultural resource pedestrian inventory survey for the ~100 acre project area; performed historical, prehistoric, and environmental context research at local libraries, historical societies, agencies, etc. for the project area; defined the project area of potential effect (APE); authored the Affected Environment section of the Environmental Assessment (EA); designed field inventory methodology.

**Cultural Resource Specialist; Sitka Access EIS and Panhandle Project; ADOT&PF; Sitka, Alaska; Dates.** Performed a “fatal flaws” analysis for the cultural resource component of the proposed project.

#### **California Transportation Projects**

**Cultural Resource Specialist; Folsom Bridge Project; CALTRANS; Folsom, California; 7/2005-8/2005.** Performed an archaeological inventory of the project area; documented an historical bridge, contributed to the technical report.

**Cultural Resource Specialist; Hyampom Road Environmental Assessment; CALTRANS/FHWA; Hyampom, California; 6/2005-7/2005.** Performed archaeological testing and data recovery of select areas within the identified archaeological site; produced professional illustrations of artifacts and stratigraphic profiles for inclusion in the technical report and EA.

#### ***Utilities***

##### **Fiber Optic Line Projects**

**Cultural Resource Specialist; Century Tel Fiber Optic Line Project; Century Tel; Anacortes, Washington; 4/2004-12/2006.** Assisted in the data recovery excavation of a prehistoric archaeological site; cataloged and organized the data recovery artifact collection in cooperation with tribal members; assisted in the identification of human remains found on the site; cleaned artifacts; analyzed lithic and shell artifacts from the collection; provided archaeological monitoring for project construction; produced professional ink illustrations of artifacts and profiles for the final report; co-authored the final data recovery report; helped address DAHP comments to the final report.

##### **Water Treatment Facilities**

**Cultural Resource Specialist; Salmon Creek Wastewater Treatment Facility; Clark County; Vancouver, Washington; 6/2003-3/2004.** Performed a site file and literature search at the Washington OAH (SHPO); performed a cultural resource pedestrian inventory survey of the 3- mile-long project corridor; documented archaeological resources using written descriptions, photographs and GPS data collection; assisted in archaeological testing at a possible archaeological site; co-authored the technical memorandum, making recommendations regarding impacts to potential and existing cultural resources.

##### **Wind Energy Projects**

**Cultural Resource Specialist; Saddleback Wind Project; PPM Energy, White Salmon, Washington; 8/2003-11/2003.** Performed a site file and literature review at the Oregon SHPO; completed a cultural resource pedestrian inventory survey for the proposed project areas; documented cultural resources using written descriptions, GPS data collection, and photography; evaluated cultural resources according to NRHP significance criteria; co-authored the technical memorandum and made project recommendations that minimized impacts to cultural resources.

**Cultural Resource Specialist; Bickleton Wind Project; PPM Energy; Bickleton, Washington; 8/2003-12/2004.** Performed a site file and literature review at the Oregon SHPO; completed a cultural resource pedestrian inventory survey for the proposed project areas; documented cultural resources using written descriptions, GPS data collection, and photography; evaluated cultural resources according to NRHP significance criteria; co-authored the technical memorandum and made project recommendations that minimized impacts to cultural resources.

**Cultural Resource Specialist; White Creek Wind Energy Project; Last Mile Electric Co-op; Klickitat County, Washington; 10/2004-2/2005.** Performed records searches at the DAHP; completed a pedestrian inventory survey of the project area; documented cultural resources using appropriate methods and forms; co-authored the final technical report.

**Cultural Resource Specialist; Arlington Wind Project; PPM Energy; Arlington, Oregon; 5/2005-7/2005.** Performed research at the SHPO; completed a pedestrian inventory survey of the project area; documented homesteads, archaeological sites, and other cultural resources using appropriate methods; contributed to the technical memorandum.

### **Pipeline Projects**

**Archaeologist; Southern Municipal Utilities District (SMUD) Project; SMUD; Sacramento, California; 5/2003-6/2003.** Assisted in excavating subsurface test units along the project corridor within and adjacent to an existing archaeological site.

**Cultural Resource Specialist; JWC Pipeline Project; Portland, Oregon; 5/2003-9/2005.** Performed site file and literature research at the Oregon SHPO; analyzed project alternatives and proposals according to existing cultural resource presence; authored a "fatal flaws" level analysis for the project. Performed pedestrian cultural resource survey of the revised project area; contributed to the technical memorandum.

### **Hydroelectric Projects**

**Cultural Resource Specialist; Klamath Hydroelectric Re-licensing Project; PacifiCorp; Klamath Falls, Oregon; 6/2004-6/2005.** Performed pedestrian archaeological inventory survey alongside a sub-consultant; documented cultural resources using written descriptions, digital photographs, measured to-scale drawings, and GPS data collection. Collaborated with the sub-consultant in writing and electronic form documentation.

**Cultural Resource Specialist; North Umpqua Project, PacifiCorp; Roseburg, Oregon; 6/2004-1/2005.** Assisted in creating a scope and budget for the three proposed data recovery excavations; planned and executed the data recover excavations; catalogued and organized the artifact collection; washed, dried, and analyzed artifacts; assisted in writing the final technical memorandum.

### **Transmission Line Projects**

**Cultural Resource Specialist; N Umpqua Archaeological Data Recovery Projects; PacifiCorp; Roseburg, Oregon; 6/2005-8/2005.** Performed archaeological data recovery on three prehistoric archaeological sites on Forest Service and BLM land; catalogued and cleaned the artifact collections; produced professional ink illustrations of artifacts and profile drawings for inclusion in the final report.

**Cultural Resource Specialist; BPA Clatskanie PUD Project; Clatskanie Public Utilities District (PUD); Clatskanie, Oregon; 6/2004-7/2004.** Performed site file and literature research at the Oregon SHPO; analyzed project alternatives and proposals according to existing cultural resource presence; authored a "fatal flaws" level analysis for the project.

### ***Environmental Remediation***

**Cultural Resource Specialist; Alcoa-Company Lake Remediation; Reynolds/Alcoa Aluminum; Troutdale, Oregon; 4/2003-7/2003.** Performed a site record and literature search at the Oregon SHPO; researched GLO maps for historic resources; performed subsurface archaeological testing and screening around Company Lake; GPSed test locations; co-authored the technical memorandum.

**Cultural Resource Specialist; UPRR Wyeth Site Remediation Project; Union Pacific Railroad; Wyeth, Oregon 10/2003-2/2004.** Performed a site record and literature search at the Oregon SHPO; documented historic building remains using written descriptions, photographs, and GPS data collection; completed electronic documentation forms for cultural resources; authored a preliminary report of the cultural resource investigation findings; performed subsurface archaeological testing throughout the project area.

**Cultural Resource Specialist; Topock Compressor Site Remediation Project; Client; Needles, California; 4/2004-7/2004.** Performed a reconnaissance-level pedestrian cultural resource survey of 100 acres; completed electronic site forms for 5 new archaeological sites and updated electronic forms for 2 existing sites. Contributed to the technical report.

**Reviewer; Geothermal Landfill Closure Project; US EPA; Lake County, California; 6/2003.** Provided oversight review of a sub-consultant's cultural resource inventory and evaluation technical report.

### ***Recreation***

**Cultural Resource Specialist; YMCA Poison Creek Campground Project; Idaho Department of Parks & Recreation; Cascade, Idaho; 8/2006-2/2007.** Coordinated with BOR and IDPR team members to determine needs for cultural resource mitigation on an NRHP eligible site within the project vicinity; analyzed alternatives in terms of impacts to the resource, authored cultural resource sections of the Environmental Assessment.

### **Experience Prior to CH2M HILL**

**U.S. Forest Service, Uinta and Wasatch-Cache National Forests, Utah, 1998-2001.** Archaeological technician for the forest service; conducted research and pedestrian inventory surveys; documented cultural resources; performed archaeological excavations; organized volunteer efforts for large projects; authored technical reports; illustrated artifacts for report publications; analyzed prehistoric and historic artifacts from excavations.

**SWCA, Inc. Environmental Consultants, Salt Lake City, Utah, 2001-2002.** Served as an Archaeologist/Historian for projects in Utah, Wyoming, and Idaho; conducted SHPO research and other research; conducted building surveys and archaeological surveys; served as a field crew chief and field supervisor; documented historic structures and archaeological sites; performed ongoing archaeological monitoring; authored technical reports and monitoring reports; coordinated with clients and agencies regarding cultural resources.

**SWCA, Inc. Environmental Consultants, Portland, Oregon, May-June 2006.** Served as an Archaeologist/Field Supervisor for data recovery on three prehistoric archaeological sites west of Laramie, Wyoming; supervised and managed crews of up to 12 people on excavation.

## **Publications/Presentations**

*Co-Organizer* South Sandcreek Byway Project Archaeological Open House for the Public; Sandpoint, Idaho, October 2006

*Presenter* Manning Canyon: Extraordinary Histories and Legacies; Utah State Historical Society Annual Meeting; Salt Lake City, Utah, August 2002

*Instructor* Boy Scout Archaeology Merit Badge; bi-annually from 1999 to 2001; Provo, Utah

## **Professional Organizations/Affiliations**

2004-2005 Member, Bosco-Milligan Foundation for Historic Preservation, Portland, Oregon

## **Training/Certifications**

HAZWOPER 40 hour trained (Hazardous Waste Operations and Emergency Response)  
Ergonomics Awareness Training  
Excavation Safety Training (Competent Excavator Certified)  
Fall Protection Training  
Field Awareness Safety  
Hazard Communication Training  
Proper Lifting  
Personal Protective Equipment (PPE) Training  
Traffic Control Training

## **Employment History**

2006 (May and June), Archaeologist/Field Supervisor, SWCA, Inc Environmental Consultants, Portland, Oregon

2001-2002, Archaeologist/Historian, 2001-2002, SWCA, Inc Environmental Consultants, Salt Lake City, Utah

1998-2001, Archaeological Technician, 1998-2001, Uinta and Wasatch-Cache National Forests, USDA Forest Service, Provo, Utah

## **Supplemental Information**

CH2M HILL Hire Date: 4/2003

Years of Experience Prior to CH2M HILL: 5

***Last Employee Update: 1/2007***

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**End of Resume**

**HUMPHREY E. CALICHER  
FIELD ARCHAEOLOGIST**

40545 Linnhaven Loop  
Lebanon, Oregon 97355  
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E-Mail: [hecal@earthlink.net](mailto:hecal@earthlink.net)

Birthplace: Melrose, MA

U.S. Armed Forces Veteran

Education

A.A., Accounting  
Chaffey Community College, Alta Loma, CA  
History Major  
California State Polytechnic University, Pomona, CA

**PROFESSIONAL EXPERIENCE:**

- 2005-06 Archaeology Field Technician, CH2MHill, 2485 Natomas Park Drive, Sacramento, California.
- 2004-05 Archaeology Field Technician, Chambers Group, 955 South Virginia Street, Suite 209, Reno, Nevada.
- 2004 Archaeology Field Technician, Western Shore Heritage Services, 8001 Day Road West, Bainbridge Island, Washington.
- 1999-2004 Archaeology Field Technician, Foster-Wheeler Environmental Corporation(After February 2003, Tetra Tech FW), Sacramento, California.
- 1998 Archaeology Field Technician (GS-5), U.S. Forest Service, Willamette National Forest, McKenzie District, Oregon.
- 1996 Archaeology Field Technician, Chambers Group, Inc., Irvine, California.
- 1996 Archaeology Field Technician, Science Applications International Corporation (S.A.I.C.), Boise, Idaho.

- 1995 Archaeology Field Technician, S.A.I.C., Santa Barbara, California.
- 1993-1995 Archaeology Field Technician, Chambers Group, Inc., Irvine, California.
- 1993 Field Archaeologist, Ogden Environmental, San Diego, California.
- 1992 Archaeology Field Technician, Infotec Research, Inc., Eugene, Oregon.
- 1991-1992 Field Archaeologist, Paul H. Rosendahl, Ph.D., Inc., (P.H.R.I.), Hilo, Hawaii.
- 1989-1990 Archaeology Field Assistant, Keith Engineering Company, Irvine, California.

**LABORATORY EXPERIENCE:**

- 1991-1992 Osteology lab work consisting of cleaning, identifying, and reconstructing human skeletal remains.

**FIELD EXPERIENCE:**

- 2005-06 Archaeology Field Technician-Cultural resources survey, site recording and mapping. Used Trimble GeoExplorer XT to collect site data. Linear survey of transmission lines and access roads from Sacramento California to the Oregon border. Western Area Power Administration, North Area Right-of-Way Maintenance Environmental Assessment Project. CH2MHill, Sacramento, California.
- 2004-05 Archaeology Field Technician-Cultural resources survey, site recording and mapping, Granite Fox Power Plant Survey Project, Gerlach, Nevada. Excavation and data recovery of two sites for WilTel Data Recovery Project east of Battle Mountain, Nevada. Chambers Group, Reno, Nevada.
- 2004 Archaeology Field Technician-Cultural resources survey of existing and proposed transmission lines for Okanogan PUD. Tetra Tech FW, Bothell, Washington.
- 2004 Archaeology Field Technician-Cultural resources survey for Bull Spring Timber Sale, Umatilla National Forest. Tetra Tech FW, Bothell, Washington.
- 2004 Archaeology Field Technician-Burial excavations at Port Angeles, Washington. Western Shore Heritage Services, Bainbridge Island, Washington.

- 2003-04 Archaeology Field Technician-Survey and test excavations, Edwards Air Force Base. Tetra Tech FW, Sacramento, California.
- 2003 Cultural Resources Monitor- On site monitor Pico Power Project/Silicon Valley Power, Santa Clara, California. Tetra Tech FW, Sacramento, California.
- 2003 Archaeology Field Technician-Testing and mitigation of CA-ORA-322/1118 at Seal Beach Naval Weapons Station, California. Foster Wheeler Environmental Corporation, Sacramento, California.
- 2002 Archaeology Field Technician- Archaeological survey, site recording and mapping for Glass Mountain geothermal transmission lines in the Modoc National Forest. Foster Wheeler Environmental Corporation, Sacramento, California.
- 2002 Archaeology Field Technician-Data recovery during construction of Calpine pipeline in Gilroy California. Foster Wheeler Environmental Corporation, Sacramento, California.
- 2002 Archaeology Field Technician-Rosaschi Ranch Survey, Toiyabe-Humbolt National Forest, Nevada. Located, recorded and tested historic and prehistoric sites. Foster Wheeler Environmental Corporation, Sacramento, California.
- 2001 Archaeological Monitor-Monitoring of construction during the AT&T/PF.Net Fiber Optic Installation Project. Foster-Wheeler Environmental Corporation. Foster-Wheeler Environmental Corporation, Santa Ana, California.
- 2001 Archaeology Field Technician-Survey and site recording for Defensible Fire Zone Project, Plumas National Forest. Foster-Wheeler Environmental Corporation, Sacramento, California.
- 2001 Archaeology Field Technician-Test excavations of Native American sites at Edwards Air Force Base. Collect artifact provenience data with Leica GPS 500. Foster-Wheeler Environmental Corporation, Sacramento, California.
- 1999-2000 Archaeology Field Technician-Survey, test excavations, and cultural resource monitoring for 360Network Fiber Optic Conduit Installation Project in Oregon and Northern California. Foster-Wheeler Environmental Corporation, Sacramento, California.

- 1998 Archaeology Field Technician-Survey and test excavations of timber-sale units. Mapped sites with Trimble GPS and Pathfinder Office. Willamette National Forest, McKenzie and Blue River Districts, Oregon.
- 1996 Archaeology Field Technician- Completion of base-wide archaeological survey, Vandenberg Air Force Base, Chambers Group, Inc., Irvine, California.
- 1996 Archaeology Field Technician-Testing and excavation of Native American sites. Saylor Creek Range Excavation Project. S.A.I.C., Boise,
- 1995 Archaeology Field Technician- Continuation of Vandenberg Air Force Base survey. S.A.I.C., Santa Barbara, California.
- 1994-1995 Archaeology Field Technician-Survey/recordation/mapping/photography, Vandenberg Air Force Base-National Park Service. Chambers Group, Inc., Irvine, California.
- 1993-1994 Field Archaeologist- Excavation/survey/photography, San Joaquin Hills Test Plan, and Lake Elsinore Test Excavation. Chambers Group, Inc., Irvine, California.
- 1993 Field Archaeologist- Excavation, Seal Beach Naval Weapons Station, California. Ogden Environmental, San Diego, California.
- 1992 Archaeology Field Technician- Excavation, PGT/PG&E Pipeline Expansion Project, multiple historic and prehistoric sites in Central Oregon and Northern California. Infotec Research, Inc., Eugene, Oregon.
- 1991-1992 Field Archaeologist- Excavation/survey/mapping/site recordation/burial recordation/photography/monitoring, multiple historic and prehistoric sites in the Mariana Islands(Guam and Saipan), and in the Hawaiian Islands (Hawaii and Maui). P.H.R.I., Hilo, Hawaii.
- 1989-1990 Archaeology Field Assistant- Excavation, Irvine Company Coastal Land
- 1989 Archaeology Field School, Excavation of Native American rock shelter

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site

**REFERENCES:**

Adam Berg  
Chambers Group  
955 South Virginia Street, Suite 209  
Reno, Nevada 89502 (755)224-3869

Larry Carbone  
4735 8th St. Unit B  
Carpenteria, California 93013 (805)566-0170

Henry Koerper, Ph.D.  
Archaeology Instructor  
Cypress College  
9200 Valley View St.  
Cypress, California 90630 (714)826-2220

Douglas M. Davy, Ph.D.  
Foster Wheeler Environmental Corporation  
3947 Lennane Drive, Suite 200  
Sacramento, California 95835 (916)928-4805

# Sara Davis

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## Education

**Portland State University**      *Master of Arts Anthropology*      Portland, OR  
IN PROGRESS:      Anticipated Graduation Date: December 2008  
Cumulative GPA: 3.74      Advisor: Dr. Kenneth Ames  
• Thesis Research: *Analysis and Distribution of Projectile Points at the Meier and Cathlapotle Sites in the Portland Basin, Oregon.*

**Portland State University**      *Bachelor of Arts Anthropology* June 2003      Portland, OR  
Cumulative GPA: 3.54      Advisor: Dr. Kenneth Ames

## Experience

### **Archaeological Investigations Northwest**

January 2007 – April 2007      *Archaeological Assistant*      Portland, OR  
• Supervisors: Terry Ozbun and Jo Reese  
• Data Recovery from a prehistoric site in Duluth, WA, and Phase I & II projects throughout Oregon and Washington.

### **Applied Archaeological Research**

March 2006 – November 2006      *Assistant Archaeologist*      Portland, OR  
• Supervisor: Bill Roulette  
• Data Recovery from a prehistoric site in Camas, WA and Lab work including lithic analysis.  
• Pipeline survey for a new liquid natural gas pipeline in southern Oregon, over 50 miles surveyed and tested.

### **Portland State University/National Park Service**

August 2005 - September 2005      *Field Archaeologist*      McGowan, WA  
• Supervisor: Dr. Doug Wilson  
• Data Recovery from the Station Camp/McGowan Site (45PC106) located on the north side of the Columbia River approx. 18 miles east of the Pacific Ocean. Site includes both protohistoric and historic elements dating from ca. 1800 to the present.

### **Portland State University**

September 2004 – June 2006      *Research Assistant*      Portland, OR  
• Supervisor: Dr. Kenneth M. Ames  
• Research Assistant in the Anthropology Department  
Duties include: Historical Research, Artifact Sorting and Cataloging, Statistical Analyses, Data Entry, Editing Written Work (i.e. Ames 2005 "The North Coast Prehistory Project Excavations in Prince Rupert Harbour, British Columbia: The Artifacts." BAR International Series 1342 Oxford)

### **Archaeological Investigations Northwest, Inc.**

June 2004 – August 2005      *Archaeological Assistant*      Portland, OR  
• Supervisors: Dr. John L. Fagan and Jo Reese  
• Archaeological field work in Oregon and Washington including: survey, data recovery, shovel testing, and excavation. Archaeological site/historic research in office and at Oregon SHPO

### **U.S. Fish and Wildlife**

March 2004 - June 2004      *Internship*      Sherwood, OR  
Region 1, Cultural Resources Office,  
Supervisors: Dr. Anan Raymond, Nick Valentine and Alex Bourdeau

- Internship duties included analyzing a large collection of fire-cracked rock (FCR) obtained from a site of unknown age in the Tualatin Valley, and submitting a written report and annotated bibliography on the subject.

### **Portland State University Field School**

June 2002 - July 2002

*Student*

Vancouver, WA

Fort Vancouver National Historic Reserve, Supervisors: Dr. Doug Wilson and Bob Cromwell

- Excavation of Fort Vancouver Historic Site occupied from 1825-1946.

Fort Clatsop, Clatsop, Oregon

- Excavation of two historic sites occupied from the 1850's to the early 1900's.

### **Posters, & Publications**

2007 Northwest Anthropological Conference, Pullman, WA. March 15-17

- Paper Presentation "Projectile point analysis of two sites in the Portland Basin."
- Poster presented "Dart and Arrow Points on the Columbia Plateau."

2005 Sigma-Xi Columbia-Willamette Chapter Student Research Symposium

- Poster presented "Identification and Analysis of Bird Bone from the Cathlapotle (45CL1) Site"

### **Volunteer Experience**

Society for American Archaeology Meeting, Salt Lake City

- 2005: Registration and Audio/Video Services

Z-Too, Archaeogeophysical Prospection

- 2004 Supervisor: Kendal McDonald

Applied Archaeological Research (AAR)

- 2003-2004: Vancouver Convention Center and Maryhill Museum

Fort Vancouver National Historic Reserve, Vancouver, WA

- July 2002-December 2002 Supervisor: Debra Sumuru

### **Memberships**

- Society of American Archaeology
- Association of Oregon Archaeologists
- Association of Washington Archaeologists

### **Skills**

- Microsoft Word, Excel and PowerPoint
- Type 65 wds/min
- Dreamweaver 2004, MX
- Website Design
- Statistical Package for the Social Sciences (SPSS)

### **Awards**

2004

- Thomas Newman Scholarship Recipient, Portland State University, Dept. of Anthropology

# Aaron Fergusson, R.P.A.

Project Planner

## Education

M.B.A, Business Administration, University of Phoenix, Las Vegas, NV Campus, 2004

M.A., Anthropology with an emphasis in Archaeology, Brigham Young University, UT, 2000

B.A., Anthropology with an emphasis in Archaeology, Brigham Young University, UT, 1996

## Professional Registrations

Registered Professional Archaeologist (2000)

## Distinguishing Qualifications

- Experienced in cultural resource management and National Historic Preservation Act consultation
- Experienced in National Environmental Policy Act (NEPA) analyses
- Meets Secretary of Interior's Professional Qualification Standards in Archeology
- Excellent experience developing and implementing a variety of projects and budgets
- Capabilities in managing the logistics of personnel and resources
- Trained in and knowledgeable of GIS software and GPS capabilities

## Relevant Experience

The rare combination of environmental technical training and experience and a Master's in Business Administration allows for strong and defensible project delivery on-time, on-budget, every time. Aaron is an experienced manager capable of critical and creative problem solving offering a well-rounded background in project management, cultural resource management and National Historic Preservation Act (NHPA) consultation, and National Environmental Policy Act (NEPA) analyses.

## Representative Projects and Dates of Involvement

### *Market Segment Projects*

**Field Supervisor; Ivanpah Solar Energy Project; Bright Source Energy; San Bernadino County, CA; April 2007 to October 2007.** Served as the cultural resources technical lead for field surveys of over 4,000 acres for a proposed 400 MW solar generation facility. Selected and supervised field personnel, oversaw conditions of permits, coordinated the logistics, and contributed to reporting to state and federal agencies.

### *Experience Prior to CH2M HILL*

**Task Manager; AEC Programmatic Agreement Review; U.S. Army Environmental Center; December 2006 to February 2007.** Reviewed the Programmatic Agreements that have been prepared through the Army Environmental Center for installations located throughout the

# Aaron Fergusson, R.P.A.

country. The task was to review the comments and identify patterns of issues that continuously make the documents technically or legally insufficient.

**In-House Consultant; Natural Resource Group; May 2006 to August 2006.** Mr. Fergusson's unique skillset made him a valuable consultant to a company specializing in the permitting and licensing of energy related pipelines and facilities. Mr. Fergusson supervised the progress of field crews, reviewed technical reports, and conducted Native American consultations for a number of pipelines across the country.

**Assistant Project Manager; Price Field Office Resource Management Plan/EIS, Bureau of Land Management Price Field Office; Price, UT; May 2005 to February 2007.** Mr. Fergusson served as assistant project manager responsible for planning and delegating hours, tracking the budgets of each task, preparing the monthly status report to the client, and preparing the invoice. In addition, Mr. Fergusson managed the schedule to meet deliverables to the client and kept team members informed of the progress. In a technical position, Mr. Fergusson oversaw the cultural resources sections of the document and authored Chapter 2 of the Final EIS.

**Task Manager; Kanab Field Office Resource Management Plan/Environmental Impact Statement; Bureau of Land Management Kanab Field Office; Kanab, UT; July 2005 to October 2006.** Mr. Fergusson developed the cultural resources section of the Analysis of the Management Situation for the RMP/EIS. Conducted a file search with the SHPO and summarized the results and integrated the results of a literature review for the document.

**Task Manager; March Air Force Base Programmatic Agreement; U.S. Air Force Real Property Agency; Sacramento, CA; June 2005 to October 2005.** March AFB was realigned/closed in 1996 pursuant to the Defense Base Realignment and Closure Act of 1990. The Air Force Reserve Command retained a cantonment area, and the Air Force Real Property Agency (AFRPA) is in the process of conveying the remainder of the property to the local community and needs to complete consultation requirements under Section 106 of the National Historic Preservation Act before it can be transferred. The Air Force initiated consultation with the Californian SHPO, the March Joint Powers Authority, and the City of Riverside, California in the preparation of a Programmatic Agreement (PA) to ensure no adverse effects to historic properties will occur. Mr. Fergusson participated in the initial consultation meetings between the AFRPA and the California SHPO. In addition, he updated the PA to reflect recent changes in the requirements and drafted letters requesting the participation of the Advisory Council on Historic Preservation and the relevant Native American tribes.

**Project Manager; Southern Nevada Regional Heliport Environmental Assessment; Ricondo & Associates (Prime contractor to Clark County Department of Aviation); Las Vegas, NV; 2003 to 2004.** Mr. Fergusson worked with another contractor on the development of the Environmental Assessment for the identification of the preferred location of the regional heliport. Mr. Fergusson managed portions of the initial feasibility studies as well as the cultural resources (Section 4f) issues.

**Task Manager; Desert National Wildlife Refuge Complex Comprehensive Conservation Plan/Environmental Impact Statement; U.S. Fish and Wildlife Service; Las Vegas, NV; 2003 to 2004.** Mr. Fergusson served as the Cultural Resources technical lead in the preparation of a cultural resources overview and synthesis of the known archaeological data for the over 1.5 million acre Complex. The document reviewed the existing archaeological data, identified

## Aaron Fergusson, R.P.A.

archaeological and historic themes that are common on the Complex, and made management recommendations regarding the needs for future data gathering, and created a context for the evaluation of future cultural resources on the Complex. The project also required the creation of a GIS database that contained the location of, and information about, every cultural resource within the Complex. In addition, Mr. Fergusson assisted the staff with the Native American consultation that included the seventeen tribes that make up the Consolidated Group of Tribal Organizations in southern Nevada.

**Project Manager; Lassen Volcanic National Park and Whiskeytown National Recreation Area Pre-Burn Surveys; U.S. Park Service Northern California Sub-Cluster of Parks; 2004.** Managed the cultural resources inventory of highly sensitive areas of Lassen Volcanic National Park and the Whiskeytown National Recreation Area prior to the controlled burning of overgrowth of the forest. Managed the technical aspects of the project and supervised the report preparation.

**Project Manager; Winter Creek Homes Development; GLS Realty Advisors; Truckee, CA; 2004.** Managed the cultural resources evaluations for a new housing development in Truckee, CA. Worked with the client and community to address the historic cultural resources found on the property.

**Project Manager; Death Valley National Park Cultural Resources Overview; U.S. Park Service Death Valley NP; 2003-2004.** Worked with another contractor to manage and lead the preparation of the Cultural Resources Overview for Death Valley National Park. Worked closely with the Park Service archaeologist to use their database and developed the historic resources section of the document.

**Project Manager; Clark County Regional Flood Control District EIS; Clark County Regional Flood Control District; Las Vegas, NV; 2003-2004.** Mr. Fergusson managed the cultural resources needs for the final document and served as Project Manager over the final phases of the project, including the preparation of a web-based GIS tool allowing for the preparation of basic environmental documents for flood control facilities.

**Project Manager; Summerlin Village Cultural Resources Survey; G.C. Wallace (Prime contractor to Howard Hughes Corporation); Las Vegas, NV; 2004.** Mr. Fergusson managed the cultural resources survey of 5,000 acres of undeveloped land on the west side of the Las Vegas Valley. Upon completion the report was successfully submitted to the Army Corps of Engineers and the Nevada State Historic Preservation Office. As a result of the inventory, it was determined the additional Native American consultation was required as well as a treatment plan to mitigate adverse impacts to cultural resources from the planned development.

**Project Manager; Kern River 2003 Expansion Project; Kern River Gas Transmission Company; Utah (statewide); 2001 to 2004.** Mr. Fergusson managed the Kern River cultural resources mitigation project in Utah. Kern River Gas Transmission Company found it necessary to loop an existing natural gas line with a new 36 inch natural gas pipeline to fuel new power plants in California. The pipeline began in Wyoming and stretched nearly 700 miles to California, crossing Utah and Nevada. Utah contained over 160 significant archaeological sites that required mitigation. Mr. Fergusson successfully negotiated a multi-million dollar budget, carried out the fieldwork on time and under budget, and supervised the lab work and report production. Elements of the mitigation included excavation, construction monitoring,

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reconnaissance inventory of new work areas, synthesis reports, popular reports for public distribution, specialized archaeological analyses of artifacts, and numerous technical reports and presentations.

**Project Manager; Manning Canyon Inventory; Bureau of Land Management Salt Lake Field Office; Utah County, UT; 2003.** Mr. Fergusson successfully bid and managed the Manning Canyon Cultural Resources Inventory project through the Salt Lake Field office of the BLM. Mr. Fergusson lead the effort to inventory the property, make management suggestions to the BLM on the preservation or mitigation of significant cultural resources, and produce the final report, which was approved by both the BLM and the Utah State Historic Preservation Office.

**Project Manager; Rough Haul Road Inventory; Ageiss Environmental (Prime contractor to U.S. Army Dugway Proving Ground); Tooele County, Utah; 2001.** Managed the Class III inventory of a 13 mile road corridor used for training on base.

**Project Manager; Granite Cross Country Maneuver Area; Ageiss Environmental (Prime contractor to U.S. Army Dugway Proving Ground); Tooele County, Utah; 2001.** Managed the Class III inventory of 3,050 acres for a proposed maneuver area.

**Project Manager; White Lakes Water Line; C Bar Cattle Company; Box Elder County, Utah; 2001.** Managed and conducted the Class III inventory of 80 miles of water pipeline, and participated in consultation with local government and interested parties.

**Project Manager; UDOT Two Intersections; Utah Department of Transportation Region 4; Garfield and Sevier Counties, Utah; 2001.** Oversaw and conducted the Class III inventory and testing of eligibility of sites for proposed intersection upgrades.

**Project Manager; SR 6 Passing Lanes; Utah Department of Transportation Region 4; Carbon and Emery Counties Utah; 2001.** Oversaw and conducted the Class III inventory for proposed passing lanes on SR 6.

**Project Manager; Various Fiber Optic Projects; South Central Communications; Garfield, Paiute, and Sevier Counties, Utah; 2001.** Oversaw and conducted the Class III inventory for several proposed fiber optic lines on UDOT, SITLA, and private lands.

**Field Supervisor; Tooele Mid-Valley Highway Project; Tooele County, Utah 2000.** Conducted the Class III inventory for the proposed Mid-Valley Highway on the Tooele Army Depot.

**Field Supervisor; Green Peaks Quarry; Interstate Rock Products; Box Elder County, Utah; 2000.** Conducted the Class I and III inventory for several proposed rock quarries near Park Valley.

**Field Supervisor; Pagus Pipeline; Northwest Pipeline; Wyoming and Idaho; 2000.** Participated in the Class III inventory of proposed loops for a gas pipeline in southwestern Wyoming and southeastern Idaho.

**Field Supervisor; Adesta Communications Fiber Optic Project; Adesta Communications; Utah/Colorado; 2000.** Conducted the Class III inventory of sections of a proposed fiber optic route from the Utah/Colorado Border to I-80 in Utah Department of Transportation Rights-of-Way.

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**Field Supervisor; Various CBM Gas Projects; River Gas Corporation; Carbon and Emery Counties, Utah; 2000.** Participated in the inventory of well pads and access corridors within Castle Valley.

**Archaeologist; Various Oil Well Projects; Shenandoah Energy, Inc.; Uintah County, Utah; 2000.** Participated in the inventory of well pads and access corridors in the Red Wash area.

**Archaeologist; Various Well Pad Projects; Inland Resources; Duchesne County, Utah; 2000.** Participated in a 60-acre block inventory of explorations drilling area, near Roosevelt.

**Archaeologist; Adesta Communications Fiber Optic Project; Michael Baker, Jr.; Eastern Utah; 2000.** Participated in a 120+ mile linear inventory for a fiber optic line along I-70 and Highway 6 in Utah Department of Transportation Rights-of-Way.

**Archaeologist; Inland Resources Various Well Pad Projects; Inland Resources; Duchesne County, Utah; 1999.** Participated in an 80-acre block inventory of an explorations drilling area, near Roosevelt.

**Archaeologist; Centex Homes Development; Centex Homes; Reno, Nevada; 1999.** Participated in a 15-acre block inventory for a proposed housing development.

**Archaeologist; Lumos Development; Lumo, Inc.; Reno, Nevada; 1999.** Participated in an 80-acre block inventory for a proposed housing development in Reno.

**Archaeologist; Adesta Communications Fiber Optic Project; Utah Department of Transportation; Utah; 1999.** Participated in a seven-mile linear inventory along I-70 from Floy to Cresenct Junction, Utah.

**Archaeologist; BLM Burn Project; Bureau of Land Management, Fillmore Field Office; Juab County, Utah; 1999.** Participated in a 2,000-acre block inventory and testing for site eligibility in a recent burn area.

**Archaeologist; BLM Burn Project; Bureau of Land Management, Fillmore Field Office; Juab County, Utah; 1999.** Participated in a 3,000-acre block inventory and testing for site eligibility in a recent burn area.

**Archaeologist; CBM Well Project; Anadarko Petroleum Corporation; Carbon and Emery Counties, Utah; 1999.** Participated in a 40-acre block inventory for CBM wells.

**Archaeologist; E.I.S./BLM Land Exchange; E.I.S.; Carbon County, Utah; 1999.** Participated in a 40-acre block inventory for a proposed BLM land exchange, near Kenilworth.

**Crew Chief; Capitol Reef National Park Testing; Capitol Reef National Park; Utah; 1998.** Participated in extensive site testing within the park boundaries.

**Crew Chief; Trax Mitigation; Utah Transportation Authority; Salt Lake City, Utah; 1998.** Participated in an excavation of a Fremont site along the Light Rail line in downtown Salt Lake City.

**Crew Chief; Sand Hollow Mitigation; Washington County Water Conservancy District; Hurricane, Utah; 1998.** Participated in excavations of sites prior to the construction of a reservoir, near Hurricane.

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**Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1998.** Participated in a systematic inventory of approximately 4,500 acres in the central one-third of the park, Utah.

**Archaeologist; Broken Arrow Cave Excavations; Bureau of Land Management; Utah; 1997.** Participated in excavations of a sheltered Archaic site prior to a land exchange, near Page, Arizona in Utah.

**Crew Chief; Jay's Place Excavations; Privately funded research project through Brigham Young University; Utah County, Utah; 1997.** Participated in an excavation of a Fremont structural site in West Canyon.

**Crew Chief; Lampstand Ruins Excavations; Bureau of Land Management; Utah; 1997.** Participated in an excavation and extensive mapping of an open Kayenta Anasazi structural site in the Grand Staircase-Escalante National Monument, Utah.

**Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1997.** Participated in a systematic inventory of approximately 4,500 acres and testing in the northern one-third of the park.

**Crew Chief; Kay's Cabin Excavations; Privately funded research project through Brigham Young University; Utah County, Utah; 1996.** Participated in an excavation of a Fremont structural site south of Goshen.

**Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1996.** Participated in a systematic inventory of approximately 4,500 acres and testing in the southern one-third of the park.

**Student Archaeologist; Brigham Young University, Department of Anthropology Field School; USDA Forest Service; Fishlake, Utah; 1995.** Participated in a two-month excavation of a late archaic, high altitude structure.

## Professional Organizations/Affiliations

Register of Professional Archaeologists (RPA)

Member, Society of American Archaeology (SAA)

Member, Nevada Archaeological Association (NAA)

Member, Utah Professional Archaeological Council (UPAC)

Member, Utah State Historical Society (USHS)

Den Leader of Cub Scouts in the Boy Scouts of America

## Honors and Awards

1996 Brigham Young University Undergraduate Research and Creative Work Award

## Specialized Computer Skills

Microsoft Office Suite, including Access

GIS software: ArcView 3.1

# Aaron Fergusson, R.P.A.

GPS capabilities: Trimble GeoXT with ArcPad

## Professional Development

Completed PSMJ's Project Manager Bootcamp

Received Mandeville Technique Business Development training

## Publications and Presentations

Fergusson, Aaron and Anne DuBarton

2004 Desert National Wildlife Refuge Complex Comprehensive Conservation Plan and Environmental Impact Statement Cultural Resources Overview. SWCA Cultural Resource Report No. 04-164. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and David Brunzell

2004 Cultural Resources Investigations of the Lassen National Park, California. SWCA Cultural Resource Report No. 04-211. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and David Brunzell

2004 Cultural Resources Investigations of the Whiskeytown National Recreation Areas, Shasta County, California. SWCA Cultural Resource Report No. 04-210. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron

2004 "Mitigating Pipes: Summary and Self-Critique." Paper presented at the Society for American Archaeology 69th Annual meetings in Montreal, Canada.

Fergusson, Aaron

2003 Heritage Resources Inventory of a 40-acre Parcel for the Proposed Winter Creek Homes Development, Nevada County, CA. SWCA Cultural Resources Report No. 03-049. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and Anne DuBarton

2003 Archaeological Investigations of Nine Sections in the Summerlin West Development Project, Las Vegas, Nevada. SWCA Cultural Resources Report No. 03-246; SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron

2001 Class III Cultural Resource Inventory and Limited Testing of Utah Department of Transportation's Proposed Two Intersection Upgrades, in Sevier and Garfield Counties, Utah. SWCA Cultural Resource Report No. 01-137. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

## Aaron Fergusson, R.P.A.

2001 Class III Cultural Resource Inventory of C Bar Cattle Company's Proposed White Lakes Water Line, in Box Elder County, Utah. SWCA Cultural Resource Report No. 01-149. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2001 A Cultural Resource Inventory of the 2100 South Reconstruction Project, Salt Lake County, Utah. SWCA Cultural Resource Report No. 01-138. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2001 Class III Cultural Resource Inventory of South Central Communication's Proposed Fiber Optic Cable Project from Bryce Canyon to Escalante, Garfield County, Utah. SWCA Cultural Resource Report No. 01-132. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Class III Cultural Resource Inventory of the Proposed Adesta Communications Fiber Optic Cable in Grand, Emery, Carbon, Wasatch, Utah, and Salt Lake Counties, Utah. SWCA Cultural Resources Report No. 00-201. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Class III Cultural Resource Inventory for Adesta Communications Bangerter Highway to I-80 Fiber Optic Project in Salt Lake County, Utah. SWCA Cultural Resources Report No. 00-204. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Aspen Shelter Projectile Points: A Regional Perspective. Unpublished Masters Thesis, Brigham Young University. 2000.

Fergusson, Aaron

2000 "Anasazi Health and Nutrition". In *Of Earth, Stone, and Corn: The Anasazi and Their Puebloan Descendants*, edited by Marti Lu Allen and Shane A. Baker, pp 45-68. Museum of Peoples and Cultures: Popular Series 2, Provo, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of a Proposed Access Corridor by the Wattis Road in the River Gas Coal Methane Field. SPUT-328. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of the Utah #01-246, USA #03-249 & the USA #03-442 Well Pads and Access Corridors in the River Gas Coal Methane Field. SPUT-330. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

## Aaron Fergusson, R.P.A.

2000 An Intensive Cultural Resource Survey and Inventory of the USA #11-441, USA #23-467, USA #23-468, USA #26-481, & USA #26-482 Well Pads and Access Corridors in the River Gas Coal Methane Field. SPUT-334. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of the Utah #06-483 Well Pad and Access Corridor in the River Gas Coal Methane Field. SPUT-336. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of a Ski Underpass Structure on Hwy 153 for the Elk Meadows Ski Resort, Beaver County, Utah. JBR Cultural Resource Report 99-40. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of a Pedestrian Path in Soldier Hollow, Wasatch Mountains State Park, Wasatch County, Utah. JBR Cultural Resource Report 99-41. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of the Silverado Ranch Estates Project, a 15 Acre Parcel on West 7th Street, Reno, Washoe County, Nevada. JBR Cultural Resource Report 99-42. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Survey of the Hughes Borrow Pit, East of Mesquite Nevada, In Mohave County, Arizona. JBR Cultural Resource Report 99-44. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory the Pecetti Ranch, an 80 Acres Parcel, Washoe County, Nevada. JBR Cultural Resource Report 99-46. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Richard K. Talbot

1999 A Cultural Resource Inventory of Three Proposed Well Pads in Castle Valley, Carbon and Emery Counties, Utah. Office of Public Archaeology, Provo, Utah.

Fergusson, Aaron and Richard K. Talbot

1999 A Cultural Resource Inventory of a Proposed 40-Acre Land Exchange, Kennilworth, Carbon County, Utah. Office of Public Archaeology, Utah.

Fergusson, Aaron

# Aaron Fergusson, R.P.A.

1999 "Chipped Stone Tools". In Baker Village Report of Excavations, Office of Public Archaeology, Provo, Utah.

Baadsgaard, Aubrey and Aaron Fergusson

1998 Test Excavations at the Lampstand Ruins: A Kayenta Anasazi Site in the Northern Circle Cliffs, South-Central Utah. Museum of Peoples and Cultures Technical Series No. 98-5. Brigham Young University, Provo, Utah.

Fergusson, Aaron and Jon Baxter.

1998 Capitol Reef National Park: 1998 Archaeological Survey and Testing Program, CARE Preliminary Report No. 3. Museum of Peoples and Cultures Technical Series No. 98-8. Brigham Young University, Provo, Utah.

Fergusson, Aaron

1998 "Aspen Shelter: Rethinking Regional Projectile Point Types." A poster presented at the 26th Great Basin Anthropological Conference, Bend, Oregon.

Fergusson, Aaron

1996 "Chipped Stone and Hunter-Gatherer Mobility." Paper presented at the 25th Great Basin Anthropological Conference, Lake Tahoe, California.

## Supplemental Information

Years Experience Prior to CH2M HILL: 12  
CH2M HILL Hire Date: 04/09/2007

## Employment History

**CH2M HILL, Salt Lake City, Utah, Project Planner, 2007.** Cultural Resources Specialist responsible for all aspects of cultural resource investigations and Section 106 consultation, including field surveys, document preparation and review, Native American consultation, and environmental documentation and compliance.

**Booz Allen Hamilton, Salt Lake City, Utah, Associate, 2005 to 2007.** Project management responsibilities including planning and scheduling resources, budgeting, client interface and reporting, and invoicing on large NEPA EIS projects. Serve as the technical lead on prehistoric cultural resources for the firm. Clients included commercial industry, Bureau of Land Management, US Army Environmental Center, and US Air Force Real Property Agency.

**SWCA Environmental Consultants, Salt Lake City, Utah and Las Vegas, Nevada, Program Director, 2000 to 2005.** Experienced Project Manager with responsibilities to ensure the financial success of projects and work closely with clients to help them achieve their goals. Managed projects include cultural resources surveys, testing, and data recovery as well as NEPA analyses. Successfully bid and managed projects ranging from private sector clients to county, state, and federal agencies, including both Section 106 and NEPA projects. Authored or supervised cultural resource inventory reports that have been submitted to and approved by UDOT, SITLA, BLM, Forest Service, U.S. Army, and the Utah, Nevada, and Idaho SHPOs.

## Aaron Fergusson, R.P.A.

Participated in the development of office policies and procedures to ensure the high quality of work products. Directly supervised Cultural Resources, GIS, and Administrative staff.

**Senco-Phenix, Price, Utah, Archaeologist/Field Supervisor, 2000.** Permitted by the Utah SHPO and BLM to conduct and lead field surveys and limited testing. Conducted cultural resources inventories and testing, authored and co-authored numerous reports, and developed a system for computerizing the graphics for reports.

**JBR Environmental Consultants, Springville, Utah, Archaeologist, 1999 to 2000.** Completed approximately 10,000 acres of cultural resources inventory, co-authored several inventory reports, researched archaeological data for reports, and participated in marketing opportunities.

**EIS, Helper, Utah, Archaeologist, 1999.** Responsible for the development and marketing of new cultural resources services to existing and new clients. Participated in the writing of Environmental Assessments and other NEPA compliance documents in eastern Utah.

**Brigham Young University/Office of Public Archaeology, Provo, Utah, Crew Chief, 1996 to 1999.** Worked closely with the Project Director to instruct and lead archaeological students in both cultural resources surveys and data recovery methods both in the field and the classroom. Co-authored inventory and data recovery reports and conducted the necessary artifact analyses on sever artifact classes, including chipped stone, ceramics, worked bone, and groundstone.

*Last Employee Update: 04/19/2007*

**SUMMARY VITA**  
**ROBERT M. HARMON**

**ADDRESS:** 799 Gear Street  
Reno NV 89503  
Voice/Fax (775) 322-2850  
[email: bobandmella@gbis.com]

**EDUCATION:** University of California, Berkeley  
B.A. 1970 (Anthropology)

California State University, Hayward  
M.A. 1984 (Anthropology / Concentration in Physical Anthropology)

**EMPLOYERS:**  
2004 – Present CH2M Hill  
2485 Natomas Park Drive, Suite 600  
Sacramento, CA 95833  
(916) 920-0300

Associate Scientist (Archaeologist)

1998 – Present Consultant / contractor

1995 – 1998 Summit Envirosolutions, Inc.  
1475 Terminal Way, Suite B  
Reno, NV 89502  
(775) 785-8888

Archaeologist / Project Manager

1979 – 1992 Basin Research Associates, Inc.  
1933 Davis Street, Suite 210  
San Leandro, CA 94577  
(510) 430-8441

Field Supervisor / Project Archaeologist

**SELECTED ARCHAEOLOGICAL FIELD PROJECTS:**

2007 Crew member, archaeological data recovery on the Sand Creek Byway Project, Bonner County Idaho, April 2007.

2006 - 2007 Cultural resources field survey of portions of the Truckee River corridor for U.S. Army Corps of Engineers proposed flood control measures in Washoe and Storey Counties, Nevada, February – March, November – December 2006 and January 2007.

2006 Crew member, archaeological data recovery on the Sand Creek Byway Project, Bonner County Idaho, September – November 2006.

Crew member, archaeological site testing on the Sand Creek Byway Project, Bonner County, Idaho, April – May 2006.

- 2005
- Cultural resources field survey for maintenance access routes along various Western Area Power Administration transmission line rights-of-way in Butte, Colusa, Glenn, Shasta and Tehama Counties, California, March – June 2005.
- Cultural resources field survey for proposed new irrigation pipeline routes from the Sacramento River, Colusa County, California, March 2005.
- Cultural resources field survey for proposed desalination facilities and associated linear rights-of-way in Monterey County, California, January and February 2005.
- 2004
- Cultural resources field survey for proposed reconductoring of power lines along San Francisco Water Department right-of-way in the San Andreas-Crystal Springs watershed, San Mateo County, California, November 2004.
- Presence/absence testing at prehistoric mound site CA-Sac-26 for the proposed Downtown-Natomas-Airport light rail extension across the American River, Sacramento County, California, November 2004.
- Cultural resources field survey of portions of the Truckee River corridor for U.S. Army Corps of Engineers proposed flood control measures in Washoe County, Nevada, September 2004.
- Cultural resources field survey for proposed construction within a portion of Sierra Army Depot, Lassen County, California, September 2004.
- Recordation of archaeological sites and monitoring of geotechnical testing activities in the vicinity of Pacific Gas and Electric's Topock Compressor Station, San Bernardino County, California, July and August 2004.
- Cultural resources field survey of the proposed Turlock Irrigation District Delhi Substation property, Merced County, California, August 2004.
- Mitigation monitoring of construction at the Metcalf Energy Center, Santa Clara County, California, February and June 2004.
- Construction monitoring at the Turlock Irrigation District Walnut Energy Center, Stanislaus County, California, March – May 2004
- Monitored geotechnical testing and inventoried portions of Owens Lake region (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, January 2004.
- 2003
- Mitigation monitoring of construction at the Metcalf Energy Center, Santa Clara County, California, October 2003.
- Monitored geotechnical investigations and inventoried land parcels for the U.S. Army Corps of Engineers Truckee Meadows flood control project, Washoe and Storey Counties, Nevada, September and November 2003.
- Testing and evaluation of prehistoric sites at Picayune Rancheria (Chukchansi Tribe), Madera County, California, August 2003.

- 2003
- Monitored excavations for a natural gas pipeline in the vicinity of Rio Vista, Solano County and Brannan Island, Sacramento County, California, June – July 2003.
- Monitored geotechnical testing and inventoried portions of Owens Lake region (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, California, May – September 2003.
- Completed presence/absence testing on portions of CA-Sac-93, a Sacramento Delta region mound site, preparatory to natural gas pipeline construction, Sacramento County, California, May 2003.
- Inventoried approximately 300-acre parcel at Sierra Army Depot, along east edge of Honey Lake, preparatory to proposed land transfer, Lassen County, California, April 2003.
- Monitored backhoe soils testing on Owens Lake bed (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, California, March 2003.
- Mitigation monitoring of construction at Picayune Rancheria (Chukchansi Tribe), Madera County, California, January – February 2003.
- 2002
- Mitigation monitoring of construction at Picayune Rancheria (Chukchansi Tribe), Madera County, California, June, September – October and December 2002.
- Construction Monitoring at the Los Esteros Critical Energy Facility, Santa Clara County, California, July – August 2002.
- Inventory and prehistoric site testing along proposed natural gas pipeline route serving Rancho Seco power generation plant, Sacramento County, California, June 2002.
- Inventory of approximately 250 acres proposed for development of the Alexander Valley Resort and Spa, Sonoma County, California, June 2002.
- Inventory of approximately 100 acres proposed for “inundation areas” on Monterey Bay coast at Fort Ord, Monterey County, California, May 2002.
- Construction monitoring at the Modesto Irrigation District Woodland Generation Station 2, Stanislaus County, California, February, April, May and July – November 2002.
- Mitigation monitoring of construction at the Metcalf Energy Center and excavation of prehistoric human burials, Santa Clara County, California, January – May and September 2002.
- Completed various small-parcel inventories for development projects throughout Bay Area Counties, California, May, August and December 2002.
- 2001
- Inventory of parcels and corridor for a proposed water line, including well and storage areas, into the Sierra Army Depot, Lassen County, California, October 2001.

- 2001
- Inventory of large portions of Owens Lake bed and surrounding environment, (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, California, April – June and August – September 2001.
- Construction monitoring and exhumation of burials from historic Yerba Buena Cemetery, site of new Asian Art Museum, San Francisco, California, March 2001.
- Provided mitigation compliance monitoring services during construction activities for the Delta Energy Center, Contra Costa County, California, January – March 2001.
- Core sampling/testing program for determining extent of subsurface historic deposits at the Presidio of San Francisco, January 2001.
- Completed various small-parcel inventories for development projects throughout California, January – December 2001.
- 2000
- Inventory of an approximately 50-acre parcel proposed for commercial development in Tulare County, California, November 2000.
- Inventory of proposed Yosemite Area Rural Transit System (YARTS) staging areas, Mariposa and Mono Counties, California, October 2000.
- Construction monitoring and exhumation of burials from historic Yerba Buena Cemetery, site of new Asian Art Museum, San Francisco, California, September – October 2000.
- Inventory portions of Picayune Rancheria (Chukchansi Tribe) and record extensive bedrock milling stone features, Madera County, California, June, August and September 2000.
- Inventory of Calpine-Mecca Transmission Line Corridor, an approximately 30-mile route across Riverside County, California, June 2000.
- Provided mitigation compliance monitoring services during construction activities for the Delta Energy Center, Contra Costa County, California, April – December 2000.
- Inventory of Nevada Packard Permit Expansion Area, Coeur Rochester Mine, Pershing County, Nevada, April 2000.
- Inventory and testing program for prehistoric and historic properties at Owens Lake, (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, California, February – March 2000.
- Completed various small-parcel inventories for development projects throughout Bay Area Counties, California, January – December 2000.
- 1999
- Inventory and testing program for prehistoric and historic properties at Owens Lake, (Owens Lake Dust Control Project, Great Basin Unified Air Pollution Control District), Inyo County, California, October – November 1999.

- 1999
- Completed cultural resources archive research for an 11.5-mile power line reconductoring project in San Mateo County, California, September – October 1999.
- Field supervisor for presence/absence testing at CA-SJo-202 preparatory to development of an intermodal container center, San Joaquin County, California, September 1999.
- Provided mitigation compliance monitoring for various construction projects in Santa Clara County, California, August 1999.
- Surveyed parcel for proposed residential development at Pebble Beach to verify the presence/absence of CA-Mnt-1368/H, Monterey County, California, August 1999.
- Field supervisor, presence/absence testing for multiple prehistoric sites at the proposed Metcalf Energy Center, Santa Clara County, August 1999.
- Compiled historical and archaeological archive material for a proposed extensive linear construction project in Butte, Colusa and Sutter Counties, California, July 1999.
- Surveyed land parcels dedicated to the proposed Yosemite Area Regional Transit System (YARTS), Mono, Tuolumne and Mariposa Counties, California, June 1999.
- Provided environmental compliance monitoring services during construction activities for the Great Basin Unified Air Pollution Control District Owens Lake Dust Control Project, Inyo County, California, May 1999.
- 1998
- Provided environmental compliance monitoring services for cultural resource properties along the Sierra Pacific Power Company's Alturas Intertie Project. Modoc, Lassen and Sierra Counties, California, March – October 1998.
- Surveyed a series of land parcels as part of development pre-planning for the North Livermore Project, Alameda County, California, July 1998.
- 1997
- Manager/supervisor for a data recovery program at site 26Wa5461, a historic property in Washoe County, Nevada, December 1997.
- Contributed to the ongoing preparation of cultural resources studies documentation for natural gas pipeline expansion in Carson City and Washoe County, Nevada, January – December 1997.
- Managed programs of cultural resources inventory and site evaluation for mining, public utility and residential development projects in Churchill and Washoe Counties, Nevada, January – December 1997.
- 1996
- Managed portions of a program of archaeological monitoring of construction activities at sites CA-Pla-5 and Pla-6, near Truckee, Placer County, California, February – November 1996.
- Inventoried portions of the historic Callahan Ranch, Galena Canyon, Washoe County, Nevada, October 1996.

- 1996 Inventoried a small parcel of Toiyabe National Forest land associated with residential development in north Reno, Washoe County, Nevada, May 1996.
- 1995 - 1996 Supervised, at field and management levels, a program of survey, testing and data recovery at a series of archaeological sites along extensive proposed natural gas pipeline expansion routes in Carson City, Douglas, Eureka and Washoe Counties, Nevada, January 1995 – January 1996.
- 1995 Inventoried right-of-way for an underground electric distribution line near the summit of Peavine Mountain, Washoe County, Nevada, October 1995.
- Supervised the inventory of lands associated with proposed new mining activities at the site of the historic Tip Top Mine, Esmeralda County, Nevada, May – June 1995.
- 1993 - 1994 *Professional hiatus*
- 1992 Field Supervisor, location and recordation of historic features at the site of East Rochester, Pershing County, Nevada, October 1992.
- Field Supervisor, site-testing program at CA-Sol-352, Solano County, California, September 1992.
- Field Supervisor, survey/inventory, Bellevue Ranch Environmental Impact Report, Merced County, California, August 1992.
- Field Supervisor, cultural resources investigation for exploratory geothermal development, Naval Air Weapon Station, China Lake, Sugarloaf Archaeological District, Inyo County, California, July 1992.
- 1991 Field Supervisor, survey/inventory, tracked vehicle test drive area and associated burial excavation, Naval Air Station, Fallon, Churchill County, Nevada, October 1991.
- Field Supervisor, implementation of CARIDAP (California Archaeological Resource Identification and Data Acquisition Program) Sparse Lithic Scatter Program at four prehistoric archaeological sites, Mono County, California, October 1991.
- Field Supervisor, survey/inventory, lands adjacent to Over-the-Horizon/Backscatter (OTH-B) Radar Project, Modoc National Forest, Modoc County, California, September 1991.
- Field Supervisor, survey/inventory, geothermal environmental assessment, vicinity of Rye Patch Reservoir, Pershing County, Nevada, August 1991.
- Field Supervisor, survey/inventory, vicinity of the Coeur Rochester Mine (Pan Inventory), Pershing County, Nevada, June 1991.
- Field Supervisor, survey/inventory, four thermal gradient drill hole localities, vicinity of Rye Patch Reservoir, Pershing County, Nevada, June 1991.
- Field Supervisor, survey/inventory, Navy Family Housing Project at Naval Air Station, Fallon, Churchill County, Nevada, May 1991.

- 1990
- Field Supervisor, test excavations at CA-Fre-492 and presence/absence testing at CA-Fre-2263 and CA-Fre-2264, Shaver Lake, California, July and August 1990.
- Field Supervisor, survey/inventory, six land parcels near Tuscarora, Elko County, Nevada, July 1990.
- Field Supervisor, test excavations at CA-SCI-605, San Jose, California, March and April 1990.
- Field Supervisor, test excavations at CA-CCo-309, Walnut Creek, California, May 1990.
- Field Supervisor, various assessment and monitoring projects in Contra Costa, San Benito, San Mateo and Santa Clara Counties, California.
- 1989 - 1990
- Field Supervisor, survey/inventory, Soda Lake Geothermal II Power Plant, Churchill County Nevada, September 1989 and March 1990.
- 1989
- Field Supervisor, test excavations at CA-LAn-1521, Westlake Village, California, December 1989.
- Field Supervisor, test excavations at CA-Ala-483, Pleasanton, California, August – November 1989.
- Field Supervisor, survey/inventory, portions of "Mainside", Naval Air Station, Fallon, Churchill County, Nevada, July – August 1989.
- Field Supervisor, boundary determinations for CA-Mnt-1368/H and CA-Mnt-1369, Pebble Beach, Monterey County, California, March 1989.
- 1989
- Field Supervisor, various assessment and monitoring projects in Alameda, Contra Costa, Merced, San Francisco, San Joaquin, Santa Clara, Sonoma and Stanislaus Counties, California.
- 1988
- Field Supervisor, survey/inventory, Marigold Mine Project, Humboldt County, Nevada, March and May – June 1988.
- Field Supervisor, test excavations at 26-Wa-3566, 26 Wa-3567 and 26-Wa-3568 for Western Hog Ranch Company, Washoe County, Nevada, May 1988.
- Field Supervisor, survey/inventory, portions of Empire Geothermal Project, Washoe County, Nevada, February – March, May 1988.
- Field Supervisor, various assessment and monitoring projects in Alameda, San Mateo and Santa Clara Counties, California and Churchill County, Nevada.
- 1987
- Field Supervisor, presence/absence testing program at CA-Ala-343, Fremont, California, November 1987.
- Field Supervisor, site-testing program at CA-SCI-581, San Jose, California, October 1987.

- 1987
- Field Supervisor, presence/absence testing program at CA-SCI-6, Santa Clara, California, October 1987.
- Field Supervisor, site-testing program, 25 archaeological sites, Modoc National Forest, Modoc County, California, April – July, October 1987.
- Field Supervisor, various assessment and monitoring projects in Alameda, Contra Costa and Santa Clara Counties, California.
- 1986 - 1987
- Field Supervisor, monitoring and emergency data recovery, historic archaeological sites in Block II of Downtown San Jose, California, December 1986 - March 1987.
- 1986
- Field Supervisor, site-testing program, 7 archaeological sites, Modoc National Forest, Modoc County, California, August – September 1986.
- Field Supervisor, excavations at CA-Ala-466, Alameda County, California, July 1986.
- Field Supervisor, survey/inventory, 59 archaeological sites, Modoc National Forest, Modoc County, California, June – July 1986.
- Field Supervisor, various assessment and monitoring projects, Alameda, Contra Costa and Santa Clara Counties, California.
- 1985
- Field Supervisor, survey/inventory (75 archaeological sites recorded), Modoc National Forest, Modoc County, California, September – October 1985.
- Field Supervisor, excavations at CA-SCI-6E/447, San Jose, California, April – May 1985.
- Field Supervisor/Human Osteologist, CA-Ala-424, burial excavations, Alameda County, California, April 1985.
- Field Supervisor, site-testing program at CA-SCI-68, San Jose, California, March 1985.
- Field Supervisor, site-testing program at CA-SCI-6W/447 (west bank), Santa Clara, California, February 1985.
- Field Supervisor, site-testing program at CA-SCI-295, San Jose, California, February 1985.
- Field Supervisor, various assessment and monitoring projects in Alameda, Santa Clara and Contra Costa Counties, California.
- 1984
- Field Supervisor, test excavations at CA-SCI-296, San Jose, California, April - May and June – July 1984.
- Field Supervisor, test excavations at CA-SCI-204, San Jose, California, May – June 1984.
- Field Supervisor, site-testing program at CA-SCI-137, San Jose, California, May 1984.

- 1984 Field Supervisor, various assessment and monitoring projects in Santa Clara, Alameda and Contra Costa Counties, California.
- 1983 Field Supervisor/Human Osteologist, burial excavations at CA-SCI-268, San Jose, California, November 1983.
- Field Supervisor, excavations at 5 prehistoric archaeological sites, Kennedy Meadows, Sequoia National Forest, Tulare County, California, October – November 1983.
- Human Osteologist/Crew Member, excavations for the Bureau of Land Management at 26-Wa-1351 (Dryden Cave), Washoe County, Nevada, July – August 1983.
- Field Supervisor, various assessment and monitoring projects, in Alameda, Napa and Santa Clara Counties, California.
- 1982 - 1983 Field Supervisor, cultural resources survey, Thomes-Newville Project, Glenn and Tehama Counties, California, March – May 1982 and January 1983.
- 1982 Field Supervisor, various assessment and monitoring projects in Santa Clara County, California.
- 1981 - 1982 Field Supervisor, data recovery program, CA-Ala-60, Alameda County, California, November 1981 – January 1982.
- 1981 Field Supervisor, cultural resources assessment, Site 300, Lawrence Livermore National Laboratory, Alameda County, California, April – May 1981.
- Field Supervisor, Wade Ranch Complex, test excavations and monitoring program, San Jose, California.
- Field Supervisor, CA-SCI-300, site testing and excavations, San Jose, California.
- Field Supervisor, various assessment and monitoring projects in Santa Clara County, California.
- 1980 Crew Supervisor, cultural resources inventory for the MX Missile Project (Eureka, Lander, Lincoln, Nye and White Pine Counties, Nevada) by Basin Research Associates and Gilbert Commonwealth Associates, June – August 1980.
- Crew Member, CA-SCI-300, site boundary determination and test excavations, San Jose, California.
- Crew Member, CA-SCI-39H (Lick Stable), site testing and excavations, San Jose, California.
- Field Supervisor, various monitoring projects, Santa Clara County, California.
- 1979 Crew Chief, field survey, Class II Cultural Resource Inventory of the Bodie and Coleville Planning Units for the Bureau of Land Management, Mono County, California, July –September 1979.
- Crew Member, field survey, Yerba Buena Project, San Jose, California.

- 1979 Crew Member, test excavations at CA-SCI-418, San Jose, California.
- 1978 Crew Member, field survey and aerial photographic survey, Hayward Bayshore Project, by the Institute of Cultural Resources, California State University, Hayward, October 1978.
- Crew Member, field survey and photographic inventory of Station Island (Drawbridge), Alameda County, California, by California State University, Hayward, July – September 1978.

#### **LABORATORY PROJECTS:**

- 1990 Analysis of faunal material from CA-SCI-128, San Jose, California, September 1990.
- Analysis of faunal material from CA-SCI-605, San Jose, California, May – June 1990.
- 1989 - 1990 Analysis of faunal material from CA-Ala-483, Pleasanton, California, December 1989 – April 1990.
- 1988 Analysis of faunal material from 26-Wa-3566, 26-Wa-3567 and 26-Wa-3568 for Western Hog Ranch Company, Washoe County, Nevada, June – July 1988.
- 1987 - 1988 Analysis of faunal material from CA-SCI-68, CA-SCI-128, CA-SCI-300, CA-SCI-302, CA-SCI-418 and CA-SCI-581, San Jose, California, September 1987 – March 1988.
- 1986 Analysis of faunal material from CA-Hum-67, Humboldt County, California, at University of California, Berkeley, January – May 1986.
- 1981 - 1985 Analysis of Human Skeletal Material from CA-Ala-424, CA-SCI-68, CA-SCI-137, CA-SCI-300 and CA SCI-302, Alameda and Santa Clara Counties, California.
- 1980 Analysis of human skeletal material from CA-SCI-300, San Jose, California.
- 1978 Analysis of faunal material from CA-Ala-328 and CA-Ala-329, Alameda County, California, at California State University, Hayward, March – June 1978.

#### **PUBLICATIONS AND MANUSCRIPTS ON FILE:**

More than 100 co-authored assessment, excavation and monitoring reports on file with the California Regional Site Inventory and the Nevada State Museum.

#### **SPECIALIZED TRAINING:**

Completed “Introduction to Federal Projects and Historic Preservation Law” (Section 106 compliance), presented by the GSA Training Center, June 27-29, 1989, San Francisco, California.

#### **REFERENCES:**

Dr. Colin I. Busby	Basin Research Associates, Inc.
Dr. Donna M. Garaventa	1933 Davis Street, Suite 210
	San Leandro, CA 94577
	(510) 430-8441

Dr. James C. Bard

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Dr. Karen M. Nissen

Native American Liaison  
Central Region  
California Department of Transportation  
District 6  
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Fresno, CA 93705  
(559) 488-4024

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## Clint Helton, M.A., RPA

## Cultural Resources Specialist

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### CH2M HILL

**Location:** Southern California Office

**Years Experience:** 10+

### Registrations/Certifications:

Registered Professional Archaeologist (No. 11280)

### Education:

MA, Anthropology, Brigham Young University, UT

BA, Language and Literature, University of Utah, UT

### DISTINGUISHING QUALIFICATIONS

- *Strong background in environmental impact evaluations, with particular expertise in conducting cultural resources studies in CA, CO, ID, NV, UT, WY*
- *Over 10 years of environmental management experience in the western U.S.*
- *Meets Secretary of Interior Professional Qualification Standards (36CFR61)*
- *Highly experienced managing cultural resources studies for large linear utility projects to meet federal requirements of National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA), Federal Energy Regulatory Commission (FERC), and state requirements of California Environmental Quality Act (CEQA)*

### Summary of Relevant Work Experience:

Mr. Helton has more than ten years of environmental management experience in the western United States. He has a strong background in environmental impact evaluations, having directed technical studies; negotiated with lead agencies, responsible agencies and clients; and has written, edited, and produced a substantial number of environmental review and technical documents. His knowledge of regulatory compliance and cultural and paleontological resources enables him to manage National Environmental Policy Act (NEPA) and National Historic Preservation Act (NHPA) compliance activities and document preparation. Mr. Helton is a particularly skilled practitioner of federal regulations governing treatment of cultural resources, especially Section 106 of NHPA (36CFR800) and the Native American Graves Protection and Repatriation Act (NAGPRA) (43CFR10). Mr. Helton has Significant expertise conducting consultation with State and Federal agencies, as well as facilitating formal government-to-government consultation with Native American groups and tribes throughout the western U.S. Additionally, Mr. Helton is experienced with the challenges of preparing environmental documentation for large linear utility projects, including large interstate pipelines, and is familiar with the process and guidelines of the Federal Energy Regulatory Commission (FERC) among others. Mr. Helton has authored numerous environmental technical reports, cultural resources management plans, cultural resources studies, Programmatic Agreements, Memorandums of Understanding (MOU), and contributed to many CEQA and NEPA documents for a variety of private and public sector clients.

### Select Project Experience:

**Task Manager, Lompoc Wind Energy Project, Santa Barbara County, CA (2006-Present).** Task Lead, quality control manager, and overall management of cultural resources studies for this 1,000 acre plus alternative energy development project near the City of Lompoc, California. Provide regulatory guidance, regional technical expertise in cultural resources and coordination with Santa Barbara County. Performed inventory for cultural resources and conducted Native American Consultation.

**Task Manager, State Route 79 Realignment Project, Riverside County, CA (2005-Present).** Task Lead, quality control manager, and overall management of cultural and paleontological resources studies for this 19-mile highway realignment project in Riverside County, California. Provide regulatory guidance, regional technical expertise in cultural resources and coordination of subconsultants. The inventory comprises over 7,100 acres in the vicinity of the cities of Hemet and San Jacinto. Frequent consultation and coordination with Riverside County Transportation Commission (RCTC) and Caltrans.

**Task Manager, State Route 79 Widening Project, Riverside County, CA (2005-Present).** Task Lead, quality control manager, and overall management of cultural resources studies for this highway widening project in Riverside County, California. Provide regulatory guidance, regional technical expertise in cultural resources and coordination of subconsultants. Frequent consultation and coordination with Riverside County Transportation Department (RCTD) and Caltrans.

**Technical Specialist, Clinton Keith Road Extension Project, Riverside County, CA (2006).** Performed cultural resources survey and report preparation for this road widening and realignment project. Project was generally located between I-215 and SR 79 in the City of Murrieta and in Riverside County.

**Deputy Project Manager, Port of Long Beach, Cultural Resources Management Plan and Architectural Survey and Evaluation, Long Beach, Los Angeles County, CA. (2005-2007).** Preparing a major Port-wide long-range management plan for cultural resources including prehistoric and historic cultural resources properties and historic architectural resources located within the operating boundaries of the Port of Long Beach.

**Task Manager, Southern California Water Company (SCWC) Water Wells Project, Archaeological Surveys; Riverside and San Bernardino County, CA (2006).** Conducted cultural resources surveys and prepared CEQA documentation for the development of four water wells in San Bernardino County, California.

**Task Manager, City of Vernon, Vernon Power Plant, CA (2005-2007).** Assisted with preparation of Application For Certification for California Energy Commission in support of this proposed 800 MW power generation facility in Los Angeles County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Deputy Project Manager, AES Pacific Inc., Highgrove Power Plant, CA (2005-2007).** Preparation of environmental analysis component of Application For Certification for California Energy Commission in support of this proposed natural gas fired 300 MW peaking power generation facility in Riverside County, California. Additionally responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Task Manager, Edison Mission Energy, Walnut Creek Energy Park Power Plant, CA (2006).** Assisted with preparation of Application For Certification for California Energy Commission in support of this proposed 500 MW power generation facility in Los Angeles County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Task Manager, Edison Mission Energy, Sun Valley Energy Center Power Plant, CA (2006).** Assisted with preparation of Application For Certification for California Energy Commission in support

of this proposed 500 MW power generation facility in San Bernardino County, California. Responsible for preparation of cultural resources component of project, including field surveys, report preparation, and conducting Native American consultation.

**Project Manager; Sacramento Municipal Utility District (SMUD) Cosumnes Power Plant and Gas Pipeline Project, Environmental Compliance, Sacramento, CA (2003-2004).** Managed interdisciplinary team of over 20 environmental specialists including archaeologists, biologists, and paleontologists during construction of 26-mile gas pipeline and associated power generation plant. Contract value was over \$2.0 million.

**Project Principal/Quality Control Manager, Talega Residential Housing Development, Archaeological and Paleontological Compliance, Data Recovery, and Compliance Monitoring, San Clemente, CA (2002-2004).** Project principal for multidisciplinary team providing environmental compliance services for this 3,700-acre home development in San Clemente. Assisted with frequent agency consultation with U.S. Army Corps of Engineers (USACE).

**Army National Guard Cultural Resources Support Contracts, UT. (2002-2003).** Managed cultural resources services from Army National Guard for all 29 facilities within the State of Utah. Primary goal was to assist National Guard with bringing facilities into compliance with Section 106 of NHPA. Managed archaeological survey, testing, and data recovery projects. Assisted with Native American consultation. Authored an Integrated Cultural Resources Management Plan (ICRMP) to assist the Guard in complying with Department of Defense Instructions 4715.3 and Army Regulation 200-4.

**Project Manager; 700-mile Kern River Pipeline Expansion Project; WY, UT, NV, and CA (2002-2003).** Managed major cultural resources services contract with Williams Gas Pipeline, in support of the 700-mile Kern River Pipeline Expansion Project, traversing Utah, Nevada, Wyoming, and California. Mr. Helton was individually sought by Williams Gas Pipeline to provide regulatory guidance, regional technical expertise in cultural resources, project management support, as well as to provide leadership as the agency and subcontractor liaison for the project, given the size, complexity, multistate and multijurisdictional challenges and aggressive schedule of the project. Assisted from project initiation with facilitation of project Programmatic Agreement and led coordination meetings with stakeholder agencies and permitting authorities in California, Utah, Nevada, and Wyoming as well as FERC. Coordinated the activities of three subconsultants as well as the internal project team. Developed creative strategy to mitigate impacts to a large number of National Register eligible cultural sites. Contract value was over \$3.0 million.

**Project Manager, Sierra Pacific Power Company, Third-Party Environmental Compliance, 630-Mile Silver State East Fiber Optic Project, Salt Lake City, UT, to Reno, NV (2003-2004).** Managed multiphase contract to provide staff support to Bureau of Land Management (BLM) during preparation of POD and NEPA document, as well as well as third-party environmental compliance activities during construction of the 590-mile Silver State East Fiber Optic Project by Sierra Pacific Power Company. Led agency coordination, managed the project budget and staff, and assisted with resource data extraction from agency archives. Assisted with development of MOU, Project Charter, Programmatic Agreement, and public scoping process. During 14-month construction process, managed team of 25 cultural and biological resources environmental compliance monitors and acted as point of contact for BLM and Sierra Pacific Power Company.

**Project Principal /Quality Control Manager, Williams Pipeline, Rockies Expansion Pipeline Construction, WY, ID (2003).** Provided overall management of cultural resources and paleontological resources compliance monitoring services for the Rockies Expansion pipeline construction project.

**Project Manager, Adesta Communications Fiber Optic Project, Grand Junction, CO to Salt Lake City, UT (2000).** Managed all aspects of cultural and paleontological resources compliance for the 260-mile utility project. Assisted with preparation of environmental assessment (EA) for NEPA compliance. Provided project development, agency coordination, management of project budget and staff, supervision of field crews, identification and recordation of historic and prehistoric resources, laboratory analysis, and report preparation. Contract value was over \$1.0 million.

**Project Principal/Quality Control Manager; Questar Pipeline Company, Mainline 104 Pipeline Project, UT (2001).** Managed cultural resources component of the Mainline 104 natural gas pipeline project, 75 miles of 24-inch-diameter natural gas pipeline from Price to Elberta, Utah, across Carbon, Emery, Sanpete, and Utah Counties, including the Manti-LaSal and Uinta National Forests, BLM, state, and private lands. Coordinated with officials from BLM, State Trust Lands, U.S. Department of Agriculture (USDA) Forest Service, and State Historic Preservation Office (SHPO).

**Deputy Project Manager, Confidential Southern California Power Project (2005).** Assisted with preparation of the Application for Certification including lead for required analysis of 8 miles of new gas line. Key issues included land use, water supply, air quality, cultural resources, biological resources, visual resources, and noise.

**Project Manager, Williams Communications, Third-Party Environmental Compliance, I-80 Fiber Optic Project, NV and UT (2003-2004).** Managed third-party construction compliance monitors and representatives of the BLM; ensured that compliance monitors, contractors, and construction crews met the requirements described in the projects construction stipulations, permits, and right-of-way grant. Was the primary liaison to the client, BLM; provided agency coordination, management of project budget and staff, supervision of field crews, and report preparation.

**Project Principal, Western Area Power Administration, Transmission Line Project; Imperial County, California (2003-2004).** Provided overall management of cultural resources services for the Parker-Blythe #1 161-kV transmission line project. The inventory extended from Blythe, California to Parker, Arizona. A total of 147 sites (136 in California and 11 in Arizona) were recorded.

**Program Manager, United States Army Dugway Proving Ground, Cultural and Biological Resources Services (2001-2002):** Program Manager for a 3-year on-call contract to supply cultural and biological resources services to the United States Army's Dugway Proving Ground. Served as primary point of contact for the facility's environmental lead official. Assisted facility staff with cultural resources compliance activities, including cultural resources inventories in harsh and sometimes dangerous conditions within areas known to contain UXO's and other potential hazards. Completed required background checks, safety training, range training, and other required training and preparation to work on the sensitive facility. Led crews on several large inventories within this expansive training facility in Utah's West Desert. Maintained constant communication with Range Control and base staff to avoid conflict with range training activities, while performing the required inventories.

**Project Manager, United States Army Deseret Chemical Depot, Cultural Resources Services (2001):** As Principal Investigator for a large multi-phased cultural resources investigation of the United States Army's Deseret Chemical Depot, led initial survey design and sampling plan to determine the presence,

distribution, type, and significance of cultural resources located at this sensitive chemical weapons facility.

**Project Manager, Williams Pipe Line Project, Thompson to Salt Lake City, UT (1999-2001).**

Managed all aspects of cultural resources compliance for the 260-mile pipeline, including project development, agency coordination, management of project budget and staff, supervision of field crews, identification and recordation of historic and prehistoric resources, laboratory analysis, artifact curation, and report preparation.

**Project Manager, Qwest Fiber Optic Project; Environmental Assessment; Cove Fort, Utah (2000):**

Managed preparation of Environmental Assessment for NEPA compliance. Also prepared required technical report for cultural resources. Project development; agency coordination; management of project budget and staff; supervision of field crews; report preparation.

**Project Manager, Williams Communications, 3<sup>rd</sup>-Party Environmental Compliance, I-80 Fiber Optic Project; Nevada and Utah (2000):** Managed third party construction compliance monitors and representatives of the BLM; ensured that compliance monitors, contractors, and construction crews met the requirements described in the projects construction stipulations, permits, and right-of-way grant. Primary liaison to client, BLM; agency coordination; management of project budget and staff; supervision of field crews; report preparation.

**Project Manager, Questar Gas Pipeline Company Dog Valley Pipeline Project; Panguitch, Utah (1998).** Survey and recordation of 37 historic and prehistoric sites; supervision of field crews; laboratory analysis; artifact curation; report preparation.

**Project Manager, Kennecott Rawhide Mine, On Call Cultural Resources Services; Fallon, Nevada (1998):** Project development, management of project budget, agency liaison, supervision of field crews and report preparation for over 1200 acres of multiple cultural resources inventories.

**Field Director; Excavation of 42SI 230; Salt Lake City, UT (1998).** Directed testing and data recovery excavation at the Salt Lake International Airport for airport expansion project. Participated in laboratory analysis of ceramic, lithic, and bone artifacts.

**Field Director; Legacy West Davis Highway Excavation Project; Salt Lake City, UT (1997).** Directed field excavation of large Archaic to Late Prehistoric site. Twelve-week test pitting phase included over sixty 2-by-2-meter test pits. Consulted and participated with local Native American Tribal representatives. Laboratory analysis of ceramic, lithic, and bone artifacts. Contributed to final report.

**Other Professional Skills:**

- Spanish language fluency (speak, read, and write)

**Professional Affiliations and Committees:**

Association of Environmental Professionals

Register of Professional Archaeologists

Society for American Archaeology

American Anthropological Association

Select California-Specific Project Experience:

**Clint J. Helton, M.A., RPA**

**Sample California Project Experience**

Project	Dates of Performance	Type of Work Performed			
		<i>Field Survey, Assessment, Recordation</i>	<i>Data Recovery, Mitigation Planning</i>	<i>Testing, Data Recovery, Fieldwork</i>	<i>Native American Consultation and Coordination</i>
Talega Residential Housing Development, Archaeological Surveys, Data Recovery, and Compliance Monitoring; San Clemente, California	6/01 - 8/04	■	■	■	■
Kern River Pipeline Expansion Project; Utah, Nevada, and California	1/02 - 12/03	■	■	■	■
Western Area Power Administration, Transmission Line Project, Archaeological Surveys; Imperial County, California	2/03 - 8/03	■	■		■
San Juan Capistrano High School and Housing Development Project, Archaeological Survey and Data Recovery; San Juan Capistrano, California	6/03 - 10/03	■	■	■	■
Sacramento Municipal Utility District Cosumnes Power Plant and Gas Pipeline Project, Archaeological Surveys, Testing, and Compliance Monitoring; Sacramento, California	8/03 - 9/04	■	■	■	■
AES Highgrove Energy Project, Archaeological Surveys; Riverside County, California	1/05 - 3/05	■	■		■
SCWC Water Wells Project, Archaeological Surveys; Riverside and San Bernardino County, California	7/05	■			■
SR 79 Highway Realignment Project, Archaeological Surveys; Riverside County, California	1/05 - 3/07	■	■	■	■
City of Los Angeles Bureau of Sanitation Integrated Resources Plan, Los Angeles, California	7-05 - 8/05		■		
Port of Long Beach Cultural Resources Inventory and Long-Range Management Plan, Long Beach, California	8/05 - 1/07	■	■		■
Clinton Keith Road Extension Project, Riverside County, California.	1/06	■	■		■
Multiple Power Generation Facility	1/05 - 3/07	■	■		■

Permitting Projects in Alameda, Los Angeles, Riverside, San Bernardino, and San Diego Counties.					
Lompoc Wind Energy Project, Santa Barbara County, California	5/06 - 3/07	■	■	■	■

**Cultural Resources Permits/Authorizations Held:**

**Clint J. Helton, M.A., RPA  
Permits/Authorizations Held**

<b>Title on Permit</b>	<b>Geographic Area</b>	<b>Year Permitted</b>	<b>Issuing Agency</b>
Registered Professional Archaeologist	Nationwide	1999	Register of Professional Archaeologists
ARPA Permit – Project Director/Principal Investigator (Statewide), California Bureau of Land Management Cultural Resource Use Permit	California	2004	California State Office of Bureau of Land Management
Field Director (Statewide), Nevada State Antiquities Permit	Nevada	1998	State of Nevada, Nevada State Museum
ARPA Permit--Project Director, Historic/Prehistoric (Statewide), Nevada Bureau of Land Management Cultural Resource Use Permit	Nevada	1998	Nevada State Office of Bureau of Land Management
Principal Investigator, Utah State Antiquities Permit	Utah	1998	State of Utah, Division of State History
ARPA Permit--Project Director (Statewide), Utah Bureau of Land Management Cultural Resource Use Permit	Utah	1998	Utah State Office of Bureau of Land Management
ARPA Permit – Project Director (Statewide), Oregon/Washington Bureau of Land Management Cultural Resource Use Permit	Oregon	2004	Oregon State Office of Bureau of Land Management
ARPA Permit – Project Director (Statewide), Oregon/Washington Bureau of Land Management Cultural Resource Use Permit	Washington	2004	Oregon State Office of Bureau of Land Management

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## **Education**

*Bachelor of Arts*, Anthropology emphasis in Archaeology, graduated cum laude in spring 2005. (Major GPA: 3.95)

*Bachelor of Arts*, History, graduated cum laude in spring 2005.

*Associate of Arts*: Centralia Community College. Degree earned spring 2002.

*Saddle Mountains CRM Field School*, Central Washington University, completed summer 2004.

## **Academic Achievements**

Honor Roll: Fall 2002, Spring 2003, Spring 2004, Fall 2004, Winter 2005, Spring 2005.  
Member of Phi Alpha Theta Historic Honors Society.

## **Archaeological Experience**

Over two years of experience with both historic and prehistoric archaeology. Experience with general labwork, including data entry, cataloguing and artifact identification. Fieldwork including survey, excavation and monitoring.

March 2007	STU's and 1x1 excavation in Sandpoint, ID for CH2M Hill. Full time over 2 weeks.
February 2007	Database entry, historic artifact identification, cataloguing for CH2M Hill. Full time over 2 months.
November 2006	Survey outside Goldendale, WA for CH2M Hill 2 days of work.
September 2006	I-95 byway project in Sandpoint, ID for CH2M Hill Full time over 10 weeks.
August 2006	Shovel testing and survey in Clatskanie, OR for HRA. Full time over 2 weeks.
July 2006	Shovel testing and survey in Klamath Falls, OR for HRA. Full time over 1 month.
October 2005 - June 2006	Laboratory processing for Larson Anthropological Archaeological

Services at the Tze-Whit-Zen Graving Dock site in Port Angeles, WA. Principle Investigator: Dennis Lewarch. Lab Director Gretchen Kaehler. Full time over 11 months.

- Sept. 2005                      Surveying at Rufus, Oregon for CH2M Hill. Principle Investigator: Robin McClintock. Full time over 1 week.
- July 2005                        Shovel testing at Suncadia Resorts for Central Washington University. Principle Investigator: Steve Hackenberger. Full time over 2 months.
- Spring 2005                    Editing CRM reports and dissertations. Brett Lenz. Part time over 1 month.
- Spring 2005                    Summarizing local paleoindian literature. Principle Investigator: Steve Hackenberger. Part time over 2 months.
- October 2004                   Surveying and shovel probing outside Starbuck, Washington. Principal Investigator: Brett Lenz. Part time over 1 week.
- Summer 2004                   CWU Saddle Mountains Field School, Ellensburg, WA: 6 Weeks of Survey & Mapping; 1 Week of Test Unit Excavation in Central Washington. Principal Investigator: Patrick McCutcheon.

## References

Jim Bard CH2M Hill Corvallis	Jim.bard@ch2m.com (541) 740-2199
Bryce Bowden Historic Research Associates	bbowden@hrassoc.com
Gretchen Kaehler LAAS LTD.	gkaehler@aol.com
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Tucker Orvald Central Washington University	(509) 899-0108
Robin McClintock CH2M Hill	(503) 329-2458
Brett Lenz Grant County, P.U.D.	blenz@geoscientists.org (509) 933-3081
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Pat Lubinski, Ph.D. Department of Anthropology, Central Washington University, Ellensburg, Washington, 98926	lubinski@cwu.edu (509) 963-3601

## Relevant Courses

### *Anth 493/ Anth 495.2: Archaeological Field School @ Saddle Mountains*

This field school taught the use of basic equipment used in surveying and excavation as well as the methods involved. 6 weeks were spent surveying, completing site forms, mapping sites and drawing artifacts. Also, one week was spent on excavation using arbitrary layers.

*Anth 521: Intro to Cultural Resource Management*

This grad class was centered on a book by Tom F. King focused on laws pertinent to CRM archaeology, both state and federal. Final project revolved around the establishment of an historic context for the Grissom site located in Kittitas Valley, Washington.

*Anth 421: Archaeological Theory*

This class taught the history and theory of American Archaeology and why archaeologists study the past in the ways that they do.

*Geog 409: Geography Statistics*

This class taught the fundamentals of a wide variety of statistical tests used in lab work.

*Anth 321: Archaeological Methods*

This class taught the fundamental methods used in archaeology for data collection, preservation, dating and identification.

*Anth 320: Archaeological Methods Lab*

In this lab we studied faunal, sediment, lithic and use-wear analysis as well as classification methods.

*Anth 322: World Prehistory*

Analyzed several cultural traditions from North America.

*Anth 310/315: Forensic Skeletal Analysis w/ Lab*

This class teaches how to identify human skeletons and their features, including aging and sexing of the bones.

*Anth 325: Prehistory of Pacific Northwest*

This class provided information on cultural traditions of the Northwest including diagnostic artifacts, subsistence patterns and related archaeological sites.

*Anth 120: Intro to Archaeology*

Broad overview of American archaeology.

CONFIDENTIAL APPENDIX 5.3E

**Known Cultural Resources That Occur Within  
1 Mile of the Project Site and 1/2 Mile of Linears**

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APPENDIX 5.3E

# Known Cultural Resources That Occur Within 1 Mile of the Project Site and 1/2 Mile of Linears (Confidential)

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Appendix 5.3E, Known Cultural Resources That Occur Within 1 Mile of the Project Site and 1/2 Mile of Linears, was submitted separately under a request for confidentiality.