

EDUCATION

- 1994 M. S., Anatomy (Evolutionary Morphology), University of Southern California, Los Angeles
1979 B. S., Anthropology (Physical), University of California, Davis

SUMMARY QUALIFICATIONS

Ms. Gust is a Qualified Principal Paleontologist and a Registered Professional Archaeologist with more than 35 years of experience in paleontological and cultural resources management. She is certified/qualified in all California cities and counties that maintain lists. She holds a current BLM permit for paleontology and cultural in California. Ms. Gust meets national standards in archaeology set by the Secretary of Interior's *Standards and Guidelines for Archaeology and Historic Preservation*. She is accepted as a principal investigator for both prehistoric and historical archaeology by the State Office of Historic Preservation's Information Centers. Her expertise also includes historical archaeology of California (statewide) and prehistoric archaeology in the central and southern California coastal and inland areas. Tasks personally performed include research, record searches, survey, assessment of impacts/effects, application of NRHP/CRHR significance criteria and determinations, archaeological site evaluation, damage assessments, management plans, mitigation implementation, research designs, treatment plans, human osteological identification and analysis, faunal identification and analysis.

PALEO FOCUS

She has expertise in the paleontology of the western United States including research, survey, assessment of impacts/effects, significance criteria and determinations, management plans, mitigation implementation, fossil identification and analysis. She has special expertise in the identification and analysis of Pleistocene fossils and her personal research is on the population dynamics of large mammals from the La Brea tar pits. Ms. Gust is a member of the Society of Vertebrate Paleontology and Society of Economic Paleontologists & Mineralogists, among others. She has several peer-reviewed publications, numerous published abstracts and has reviewed paleontological manuscripts for the *Journal of Vertebrate Paleontology* and *Journal of Mammalogy*.

SELECTED PROJECTS

LOS ANGELES

Professional Cultural Resources Services in Support of Various On-Call Projects, Sanitation Districts of Los Angeles, CA. Task orders to-date include **Mesquite Regional Landfill Drainage Repair** Project in El Centro, Imperial County, involving a BLM Class III Pedestrian survey within project area for potential impact on portions of land managed by the BLM. **Union Street Trunk Sewer Section 1** in Downey and Commerce providing cultural resources sensitivity training of construction forces and on-call support during construction. **Cultural Resources Survey for San Jose Creek, Water Reclamation Plant East Process Optimization Facilities Plan** near Whittier. Principal Investigator. 2014-ongoing

Marina del Rey 18-Inch Waterline Replacement Phase IIIB Project, Los Angeles Department of Public Works, Marina del Rey, Los Angeles County, CA. Archaeological monitoring during ground disturbing activities for two alignments along Fiji Way and Via Marina. Monitoring compliance report. Sub to Michael Baker Intl./RBF Consulting. Principal Archaeologist. 2014

Big Tujunga Canyon Road Catch Basins, Los Angeles County Department of Public Works, Los Angeles County, CA. Conducted an archaeological survey of two small catch basins with installed culverts north of Big Tujunga Canyon Road in the Angeles National Forest. Performed record search,

literature review, pedestrian survey, and prepared a final assessment report (ARR format). Principal Archaeologist. 2003

Elysian Reservoir Water Quality Improvement Project, City of Los Angeles Department of Water and Power, Los Angeles County, CA. Performed a paleontological record search and field survey and prepared an assessment report and mitigation plan. The project involved removing the existing asphalt-lined reservoir and installing two large buried concrete tanks totaling 55 million gallons of potable water storage. Sub to EDAW. Principal Paleontologist. 2008

SEA Lab Desalination Demonstration Project, West Basin Municipal Water District, Los Angeles County, Redondo Beach, CA. Performed a cultural resources assessment for a proposed temporary ocean water desalination demonstration facility at the Science, Education and Adventure Lab (SEA Lab) site. Tasks included archaeological and paleontological record searches and review of literature, evaluation of resources and preparation of final assessment report. The regulatory environment was CEQA and local. Michael Baker Intl./RBF Consulting. Principal Investigator. 2007

Calabasas Water Pipeline, Las Virgenes Municipal Water District, City of Calabasas, Los Angeles County, CA. Performed a paleontological assessment of potential impacts due to the proposed construction of a water pipeline that follows Mureau Road, Las Virgenes Road, and Agoura Road. Sub to Kennedy Jenks. Principal Paleontologist. 2010

San Gabriel River Basin Project, City of Pico Rivera, Los Angeles County, CA. Conducted paleontological resource monitoring for trenching along Mines Road between the Rio Hondo and San Gabriel Rivers to comply with mitigation requirements. No fossil resources were observed or recovered. Prepared final mitigation report. Sub to Applied Earthworks. Principal Paleontologist. 2010

First Street Trunk Line, City of Los Angeles Department of Water and Power, Los Angeles County, CA. Conducted a paleontological resources assessment and monitoring for the construction of a large sewer line roughly 11,000 feet long and 60 inches in diameter along with added access holes, flow meters, valves, and regulator station. The project area was approximately 2.8 linear miles along First Street between Van Ness and Beverly Boulevard. Prepared the final assessment report and mitigation plan. Subsequently, was contracted to provide mitigation monitoring for paleontological resources. Principal Paleontologist. Sub to EDAW. 2005; 2007-2009

SAN BERNARDINO

Lake Gregory Dam Rehabilitation EIR and MMRP, San Bernardino County Special Districts Department, San Bernardino, CA. Records search, NAHC consultation, architectural evaluation to determine whether the dam is a historical resource, cultural and paleontological resources assessment. A Phase I Cultural Resources Inventory Report will be prepared documenting results in support of the EIR and MMRP. Cogstone will also prepare the paleontological section of the environmental document. Sub to Aspen Environmental Group. Principal Investigator. 2014

Topock Groundwater Remediation Project, Pacific Gas & Electric, Needles, San Bernardino County, CA. Prepared a Paleontological Resources Management Plan with updated evaluation for a 794-acre project at the Topock Compressor Station on the California-Arizona border. The BLM was the lead agency. The goal of the paleontological investigation was to refine the potential impacts on unique paleontological resources within the final design area and to determine whether preconstruction recovery of sensitive resources and/or construction monitoring may be warranted. Sub to Parus Consulting. Principal Paleontologist. 2012

Lenwood Outfall Due Diligence Assessment, Mojave Water Agency, Lenwood, San Bernardino County, CA. Identified potential adverse impacts to cultural and paleontological resources resulting from construction of the an outfall structure in the Mojave channel to facilitate discharge of State Water Project water from the Mojave Pipeline for aquifer recharge purposes. Cogstone conducted records search and prepared a report to meet a request from the USACE. Principal Investigator. 2014

Ground Water Regional Replacement and Recharge Project (R3), Mojave Water Agency, San Bernardino County, CA. Prepared a Cultural and Paleontological Resources Management Plan, including an updated assessment, and submitted to SHPO. Cultural resources sensitivity training was provided to all construction personnel. Both archaeological and paleontological monitoring was performed. Sub to Michael Baker Intl./RBF Consulting. Principal Investigator. 2010-2012

Oro Grande Wash Recharge Project, Mojave Water Agency, Hesperia and Victorville, San Bernardino County, CA. Paleontological Resources Assessment and paleontological mitigation monitoring for a 40-acre water intake, conveyance and recharge facilities. Paleontological resources sensitivity training was provided to all construction personnel. Funds provided by the U.S. Bureau of Reclamation and U.S. Department of the Interior, through the American Recovery and Reinvestment Act, were utilized for a maximum of 50 percent of the project. The Project Study Area (PSA) encompassed 40.4 acres. Sub to Carollo Engineers. Principal Paleontologist. 2010-2012

Central Operations Facility, Mojave Water Agency, Apple Valley, Hesperia, San Bernardino County, CA. Provided archaeological and paleontological monitoring services during construction of a new Central Operations Facility. Prepared a Cultural and Paleontological Monitoring Compliance Report. The new facility is located within a 73.4-acre parcel west of Deep Creek Road in unincorporated Apple Valley. The 73.4 acre parcel will be subdivided to accommodate the Central Operations Facility (1.84 acres) and a San Bernardino County Museum High Desert Interpretive Center (29.4 acres). The remaining 43.1 acres located primarily within the Mojave River are to be used for future river recharge area and access for MWA maintenance vehicles. Principal Investigator. 2012-2013

Ames/Reche Groundwater Storage and Recovery Program, Winters Road Flow Control and Recharge Facility, Mojave Water Agency, Landers, San Bernardino County, CA. The purpose of the project is to enable use of available aquifer storage capacity in Pipes Wash to enhance the regional supply of water and provide facilities to deliver water to various water retail agencies in the region. The Mojave Water Agency (MWA) intends to connect the existing Morongo Basin Pipeline, Winters Road Flow Control Facility, and associated infrastructure to Pipes Wash. Cogstone performed an intensive cultural and paleontological pedestrian survey of a limited portion of the larger project along Winters Road between Warren Vista Avenue and Pipes Wash, as required by mitigation measures listed in the CEQA Initial Study and Mitigated Negative Declaration for the Project (MND) (Bighorn Desert View Water Agency 2010). The field survey resulted in negative findings. Principal Investigator. 2013

East Reservoir Project, Western Heights Water Company, Yucaipa, San Bernardino County, CA. Conducted archaeological and paleontological monitoring for mitigation during a large scale excavation (roughly 40 feet) to accommodate a subterranean a reservoir/ water tank. Historic artifact recovery and analysis. Principal Archaeologist and Paleontologist. 2008-2009

Third Street/Mytlewood Drive Pipeline Installation, Yucaipa Valley Water District, San Bernardino County, CA. Conducted an archaeological and paleontological assessment and subsequent monitoring for a 30-inch pipeline installation project along Third Street and Myrtlewood Drive between Wildwood Canyon and Calimesa Boulevard. Sub to ECORP. Principal Investigator. 2005; 2006-2007

RIVERSIDE

Heacock Channel Improvement, Cultural Resources Assessment (Phase I Survey), March Air Reserve Base / March Joint Powers Authority, Moreno Valley, Riverside County, CA.

Conducted field survey and prepared an assessment report to determine the potential Project-related effects on cultural resources during construction activities for channel improvements on approximately 50 acres. The proposed project is a multi-jurisdictional and includes the design and construction of a flood control channel to protect residential, commercial, federal, public and privately owned properties within the City of Moreno Valley and March Air Reserve Base. Sub to Albert A. Webb Consulting. 2013-2014

Countryside Flood Control Channel Project, City of Menifee, Riverside County, CA. Provided paleontological resources construction monitoring of all grading and excavation activities for Phase 1 and 2 of a proposed commercial and residential development, respectively. The portions of the Flood Control Expansion that were in the alluvial fan deposits proved to be fossiliferous at only 5.9 feet (180cm) below surface. Sub to ECORP Consulting. Principal Paleontologist. 2008

Gilman Home Channel Lateral A, Stage 3, Riverside County Flood Control and Water Conservation District, Banning, Riverside County, CA. Conducted a record search, literature review, and prepared a Paleontological Mitigation Plan. Subsequently conducted sensitivity training, monitoring and prepared a Paleontological Monitoring Compliance Report. The project is within a fully developed urban area with no prior fossil discoveries. It is part of the District's program to replace existing flood control facilities with larger facilities able to collect and convey the tributary 100-year storm flows. Sub to ECORP. Principal Investigator. 2013-2014

On-Call Environmental and Regulatory Support Services, Riverside County Flood Control and Water Conservation District, Riverside County, CA. Providing cultural and paleontological resource construction monitoring services during excavation and construction of various storm drain projects. Prepare mitigation plans and compliance reports. Projects include: North Norco Channel Stage II; Gilman Home Channel Lateral A, Stage 3; Hemet MDP Line D, Stage 7; Orange Street Lateral; Beach Street Project, Storm Drain Project, Stage 1; and Pechanga Agreement. Principal Investigator. 2012-2014

North Norco Channel Stage II, Riverside County Flood Control and Water Conservation District, Norco, Riverside County, CA. Provided cultural and paleontological services to support the project-related CEQA Initial Study associated with construction of improvements to flood control channels and laterals. The 13-acre APE will be excavated to 11 feet. Records search, NAHC consultation, and intensive pedestrian survey. The entire project area was found to be previously disturbed and no cultural resources were found. Principal Investigator. 2014

Hemet MDP Line D, Stage 7, Riverside County Flood Control and Water Conservation District, Hemet, Riverside County, CA. Conducted record search, field survey and prepared a Paleontological Resources Assessment Report. Principal Investigator. 2013-2014

Orange Street Lateral, Stage 1, Riverside County Flood Control and Water Conservation District, Lake Elsinore, Riverside County, CA. Provided cultural resource construction monitoring during excavation and construction of a storm drain within Orange Street and Fairview Street. Prepared an Archaeological Resources Monitoring Compliance Report. Project Manager, Principal Archaeologist and Paleontologist. 2012

Beach Street Project, Storm Drain Project, Stage 1, Riverside County Flood Control and Water Conservation District, Mira Loma, Riverside County, CA. Prepared a Paleontological Mitigation Plan (PMP) to address potential impacts during construction activities for a proposed 6,100 alignment. Principal Paleontologist. 2012

Quintana Mixed-Use Development, Pardee Homes, Thermal, Riverside County, CA. Performed paleontological mitigation monitoring and prepared the final monitoring report. The project involved

development of a 143-acre portion of the former Kohl Ranch which included the construction of single-family residential homes, commercial properties and a lake. Lake excavation at the center of the project was the primary paleontological interest. Sub to ECORP. Principal Paleontologist. 2005-2008

Lake Elsinore Back Basin Wetlands Enhancement Project, City of Lake Elsinore, Riverside County, CA. This project consisted of the construction of shallow fish production ponds and an access road from the levee at Lake Elsinore. Conducted a paleontological literature study and prepared a final assessment report for the City. Sub to ECORP Consulting. Principal Paleontologist. 2007

ORANGE

Little Corona Infiltration, Newport Coast Watershed Management Plan, Newport Beach, Orange County, CA. The project involved a cultural and paleontological resources assessment on behalf of the City of Newport Beach to support design and implement water quality improvement projects in Buck Gully, located just to the south of Corona del Mar. Services involved record search, sacred lands search, NAHC consultation, intensive-level pedestrian survey for cultural and paleontological resources, and technical report on findings with recommendations for construction crew sensitivity training. Sub to Michael Baker/RBF Consulting. Principal Investigator. 2015

Sweany Pipeline, Phase II, Laguna Beach County Water District, Laguna Beach, Orange County, CA. Supervised a records search for inclusion in the project-related CEQA environmental document. Sub to Athena Environmental. 2015

Greenville-Banning Channel Rehabilitation, OC Public Works, Costa Mesa, Orange County, CA. Supervised record search, Sacred Lands search, NAHC consultation, field survey, DPR preparation, and GIS mapping for 6.95-acre site. Prepared cultural resources assessment. Sub to PlaceWorks. Principal Investigator. 2014-2015

Laguna Canyon Creek Erosion Control and Habitat Restoration, City of Laguna Beach, Orange County, CA. The project involves sediment removal, modification of a pedestrian footbridge and slope recontouring. Archeological and built-resources records search, Sacred Lands search, NAHC consultation, pedestrian survey and technical report. Author of prehistoric setting and ethnography sections. Section 106 of NHPA and USACE compliance. Sub to Michael Baker/RBF Consulting. Principal Archaeologist. 2014

OC-44 Pipeline Rehabilitation/Replacement, Mesa Water District, Newport Beach, Orange County, CA. Conducted a Phase I Cultural Resources Assessment to determine the potential for adverse effects to historic properties during rehabilitation and replacement of the pipeline beneath San Diego Creek, between Jamboree Road and MacArthur Blvd. Records search, Sacred Lands search, NAHC consultation, intensive-level pedestrian survey and GIS mapping of the ~15.75 APE with negative results. Sub to Michael Baker/RBF Consulting. Principal Investigator/Quality Control. 2014

Haster Retarding Basin, Pump Station and Recreational Field Project, Orange County Flood Control District, Garden Grove, Orange County, CA. Prepared a paleontological literature study. Sub to Applied Earthworks. Principal Paleontologist. 2010

Sun Ranch Drainage Improvements, City of San Juan Capistrano Public Works Department, Orange County, CA. Provided archaeological, paleontological and Native American monitoring for a 0.5 mile buried concrete pipeline installation project, located in the southwesterly portion of the City, along a natural drainage course to accommodate peak storm water flows. Principal Investigator. 2012

Imperial Channel Improvements, Orange County Public Works, Fullerton, Orange County, CA.

Conducted a cultural resources technical study, including literature review, records search and NAHC consultation, to identify potential cultural resources in the vicinity of the proposed improvements to a portion of the Imperial Channel. This project covers an area of 2.2 acres and consists of removing and reconstructing existing rock rip rap and underlying soils within the channel. Sub to Placeworks. Principal Archaeologist. 2012

SAN DIEGO

Pilgrim Creek Vector Habitat Remediation Design, Oceanside, San Diego County, CA. The project is located at the Oceanside municipal golf course adjoining MCB Camp Pendleton and will implement long-term solutions to reduce or eliminate mosquito breeding habitat. New bridges will replace culverts that constrict water flow and build sediment deposits in Pilgrim Creek. Mitigation measures include wetland expansion, creation of a new pond, and environmental studies to prepare a MND under CEQA. Conducted a records search, sacred lands search, Native American consultation, reporting and mitigation recommendations. Sub to Michael Baker Intl./RBF Consulting. Principal Investigator. 2014

MILCON P-068 Iron/Manganese Phase II Raw Water Collection Line, Camp Pendleton, NAVFAC Southwest, San Diego County, CA. Prepared an archaeological resources Construction Monitoring Treatment Plan in compliance with Sec. 106 of the NHPA. Sub to Pacific West Archaeology. Principal Archaeologist. 2004-2005

Coronado Transbay Sewer Pipeline, City of Coronado, San Diego County, CA. Prepared a paleontological resources assessment for a portion of the San Diego Bay associated with proposed construction of an underwater sewer main between the City of San Diego and the Coronado Peninsula. Services consisted of a paleontological record search at the San Diego Natural History Museum and review of literature. The project area was mapped as Pleistocene Bay Point Formation. Produced an assessment report in compliance with CEQA and local regulations for the client and the City. Sub to Parsons Brinckerhoff . Principal Paleontologist. 2006

Central & Northern California

San Catanio Creek Tributary Stabilization Project, San Ramon, Contra Costa County, CA.

Provided a paleontological assessment to identify and evaluate paleontological resources, if any, within the proposed project area. The area to be affected is 5.9 acres of San Catanio Creek tributaries within the Norris Canyon Estates residential subdivision. The project involved extending two storm drain culverts/pipes downstream and installing in-stream energy dissipaters into two unnamed intermittent drainages that are tributary to San Catanio Creek. Sub to ECORP Consulting. Principal Paleontologist. 2012

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Cambria Emergency Water Supply EIR, Cambria Community Services District, Cambria, San Luis Obispo County, CA. Conducted an archaeological and paleontological records search, sacred lands search, NAHC consultation, mapping, intensive pedestrian survey and prepared a Phase I Cultural and Paleontological Resources Assessment Report. The field survey included a surface inspection and the relocating of five sites within the project area. The project involves construction of four underground pipelines and three new wells. Ground disturbance for well construction is 40-100 feet in depth in an area sensitive for cultural resources. Sub to Michael Baker Intl./RBF Consulting/CDM Smith. Principal Investigator. 2014-2015

Integrated Facilities Master Plan Update, Camrosa Water District, Ventura County, CA. Supervised archaeological and paleontological record searches, background research, Native American consultation, evaluation of potential impact, sensitivity mapping and mitigation measures for 19,300 acre district. The CWD boundaries overlap the City of Camarillo, unincorporated areas of Ventura County, the City of Thousand Oaks and California State University at Channel Islands. Proposed projects include potable water reservoirs, pump stations, pipelines and recharge ponds; non-potable water reservoirs, pump stations, pressure regulating stations, and pipelines; and sanitary service facilities including pipelines and a water reclamation facility. Sub to Impact Sciences. Principal Investigator. 2011-2012

Santa Clara River Restoration Plan Project, US Army Corps of Engineers, Santa Paula, Ventura County, CA. Conducted archaeological literature study and Native American consultation to identify any possible prehistoric or historic resources that could be present in the project area located on Deep End Ranch. The study was requested by the USACE as part of the Section 404 permitting process. The objectives will mitigate future flood damages and restore opportunity for habitat development. Principal Archaeologist. 2009

R.C. Davis Ranch, US Army Corps of Engineers, Ojai Valley, Ventura County, CA. Performed an archaeological record search, background research of the history, prehistory, and ethnography of the project area, and prepared a final assessment report with recommendations for mitigation. The study was requested by the USACE to meet their responsibilities as the lead agency. The project consisted of stream bank restoration and protection. Identified potential prehistoric or historic resources that could be present in the project area located along Thacher Creek. Sub to West Coast Environmental and Engineering. Principal Archaeologist. 2008-2009

Southwest Underground Water Reservoir, City of Paso Robles, San Luis Obispo County, CA. The City proposed to build a 650,000 gallon underground water reservoir with associated pipeline, access road, and service parking lot to ensure fire-flow protection in the area south of the city. Conducted a paleontological literature review, pedestrian survey, and prepared an assessment report with a mitigation plan for the City of Paso Robles and County of San Luis Obispo. Sub to the Morro Group. Principal Paleontologist. 2003

Nacimiento Water Project, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo County, CA. Performed paleontological record searches, background research and assessment in order to develop an extensive Paleontological Mitigation Plan consistent with both federal law requirements and a previous paleontological assessment of Camp Roberts. The project involved construction of an intake and pump station at Lake Nacimiento, approximately 45 miles of transmission pipeline ranging in size from 36 to 12 inches in diameter, three storage tanks, two intermediate pump stations, turnouts, control center, and associated appurtenant facilities. Sub to ESA. Principal Paleontologist. 2008

Windhub Substation Water Tank and Underground Water Line, Tehachapi Renewable Transmission Project, Southern California Edison, Kern County, CA. Conducted a supplemental archaeological and paleontological resources pedestrian survey and Native American consultation to identify any sensitive resources that could be present within the construction area. Prepared a final assessment report. Sub to Pacific Legacy. Principal Investigator. 2009