PALEONTOLOGICAL ASSESSMENT FOR THE PERRIS TRUCK TERMINAL PROJECT

PERRIS, RIVERSIDE COUNTY, CALIFORNIA

APNs 302-110-021 to -024

Submitted to:

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

Prepared for:

Lilburn Corporation 1905 Business Center Drive San Bernardino, California 92408

Prepared by:

BFSA Environmental Services, a Perennial Company 14010 Poway Road, Suite A Poway, California 92064

May 11, 2022; Revised November 4, 2022



Paleontological Database Information

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Report Date: May 11, 2022; Revised November 4, 2022

Report Title: Paleontological Assessment for the Perris Truck Terminal

Project, Perris, Riverside County, California

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1905 Business Center Drive

San Bernardino, California 92408

Submitted to: City of Perris

Planning and Development

135 North D Street

Perris, California 92570

Assessor's Parcel Numbers: 302-110-021 to -024

USGS Quadrangle: Section 5, Township 4 South, Range 3 West, in the USGS *Perris*,

California 7.5-minute Quadrangle.

Study Area: 8.57 acres

Key Words: Paleontological assessment; Pleistocene very old alluvial fan

deposits; High paleontological sensitivity; City of Perris; fulltime monitoring recommended starting at a depth of five feet

below the surface.

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I. <u>INTRODUCTION AND LOCATION</u>

A paleontological resource assessment has been completed for the Perris Truck Terminal Project (Assessor's Parcel Numbers [APNs] 302-110-021 to -024) located at the northeast corner of East Markham Street and North Perris Boulevard, in the northern portion of the city of Perris, Riverside County, California (Figures 1 and 2). On the United States Geological Survey (USGS), 7.5-minute, 1:24,000-scale *Perris, California* topographic quadrangle map, the 8.57-acre project is located in Section 5, Township 4 South, Range 3 West, of the San Bernardino Baseline and Meridian (see Figure 2). A truck and trailer storage facility, including an approximately 700-square-foot single-story guard shack, 184 14-foot by 53-foot trailer stalls, three passenger car parking spaces, one handicap accessible parking space, and sidewalks, is proposed for the property. Site improvements would include a mix of screen walls, block walls, signage, landscaping, and two (2) storm water retention basins.

As the lead agency, the City of Perris has required the preparation of a paleontological assessment to evaluate the project's potential to yield paleontological resources. The paleontological assessment of the project included a review of paleontological literature and fossil locality records in the area; a review of the underlying geology; and recommendations to mitigate impacts to potential paleontological resources, if necessary.

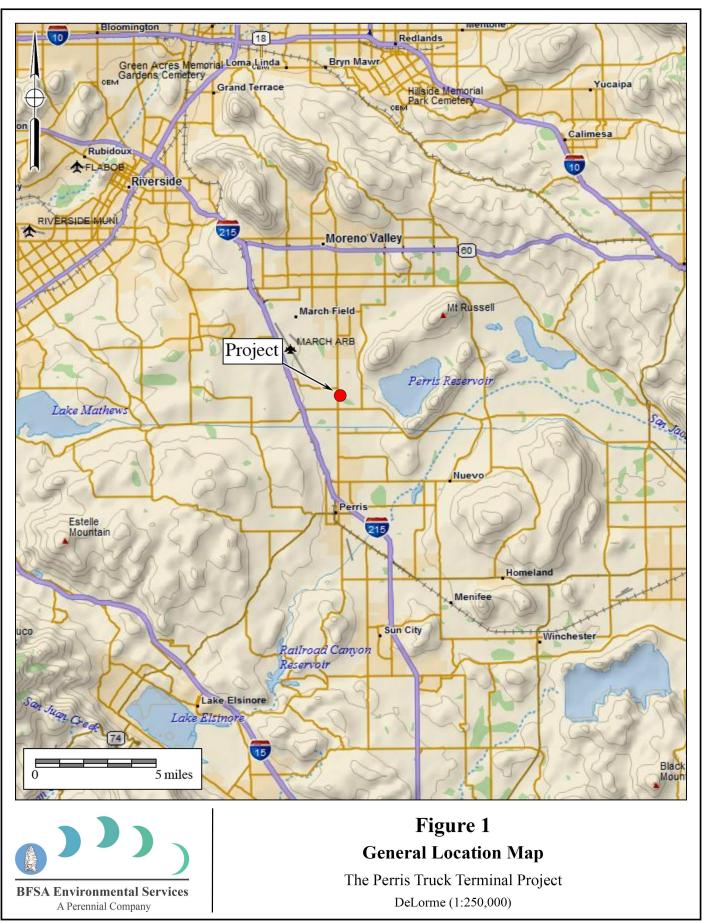
II. <u>REGULATORY SETTING</u>

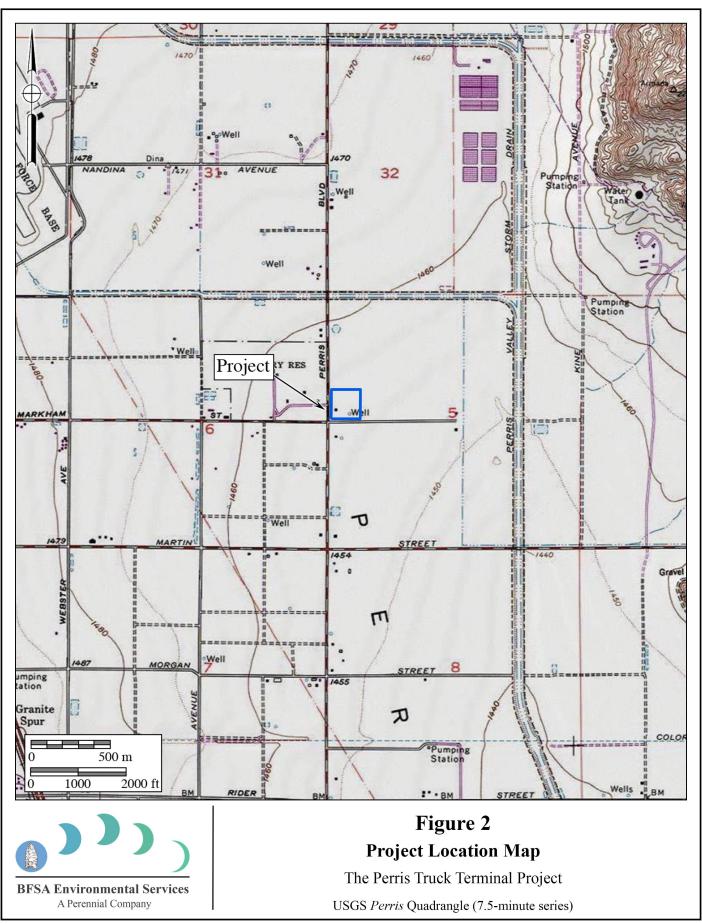
The California Environmental Quality Act (CEQA), which is patterned after the National Environmental Policy Act, is the overriding regulation that sets the requirement for protecting California's cultural and paleontological resources. CEQA does not establish specific rules that must be followed but mandates that governing permitting agencies (lead agencies) set their own guidelines for the protection of nonrenewable paleontological resources under their jurisdiction.

State of California

Under "Guidelines for Implementation of the California Environmental Quality Act," as amended in December 2018 (California Code of Regulations [CCR] Title 14, Division 6, Chapter 3, Sections 15000 et seq.), procedures define the types of activities, persons, and public agencies required to comply with CEQA. Section 15063 of the CCR provides a process by which a lead agency may review a project's potential impact to the environment, whether the impacts are significant, and provide recommendations, if necessary.

In CEQA's Environmental Checklist Form, one of the questions to answer is, "Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?" (Appendix G, Section VII, Part f). This is to ensure compliance with California Public Resources Code Section 5097.5, the law by which protects nonrenewable resources including fossils, which is paraphrased below:





- a) A person shall not knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands.
- b) As used in this section, "public lands" means lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof.
- c) A violation of this section is a misdemeanor.

City of Perris

The City of Perris has allocated requirements addressing paleontological resources in the Conservation Element of the City's General Plan (City of Perris 2005:26–27 [Exhibit CN-7]). The Conservation Element "provides goals and policies as a framework for the management, preservation, and use of the City's resources" (City of Perris 2005). Goals, policies, and implementation measures specific to paleontological resources are as follows:

Measure IV.A.4: In Area 1 and Area 2 shown on the Paleontological Sensitivity Map [Exhibit CN-7], paleontological monitoring of all projects requiring subsurface excavations will be required once any excavation begins. In Areas 4 and 5, paleontological monitoring will be required once subsurface excavations reach 5 feet in depth, with monitoring levels reduced if appropriate, at the discretion of a certified Project Paleontologist. (City of Perris 2005:47)

Based on the Paleontological Sensitivity Map (Exhibit CN-7) in the Conservation Element of the City's General Plan (City of Perris 2005), the Perris Truck Terminal Project is located within Area 4, which requires paleontological monitoring beginning at a depth of five feet.

Perris Valley Commerce Center Specific Plan

The Perris Truck Terminal Project is located within the boundaries of the Perris Valley Commerce Center Specific Plan (PVCCSP) (City of Perris 2011). The PVCCSP includes Environmental Impact Report mitigation measures addressing cultural resource impacts, which include paleontological resources. In the PVCCSP, MM Cultural 1 outlines the requirements for preparation of a Phase I cultural resources study (City of Perris 2011), which has been completed through the preparation of this assessment. MM Cultural 5 would be applicable to the Perris Truck Terminal Project should a Mitigation Monitoring and Reporting Program be proposed (City of Perris 2011). MM Cultural 5 is stated below:

MM Cultural 5: Prior to grading for projects requiring subsurface excavation that exceeds five (5) feet in depth, proponents of the subject implementing development projects shall retain a professional paleontologist to verify implementation of the mitigation measures identified in the approved Phase I Cultural Resources Study and to monitor the subsurface excavation that exceed five (5) feet in depth. Selection of the paleontologist shall be subject to the approval of the City of Perris Planning Manager and no grading activities shall occur at the site until the paleontologist has been approved by the City.

Monitoring should be restricted to undisturbed subsurface areas of older alluvium, which might be present below the surface. The paleontologist shall be prepared to quickly salvage fossils as they are unearthed to avoid construction delays. The paleontologist shall also remove samples of sediments which are likely to contain the remains of small fossil invertebrates and vertebrates. The paleontologist shall have the power to temporarily halt or divert grading equipment to allow for removal of abundant or large specimens.

Collected samples of sediments shall be washed to recover small invertebrate and vertebrate fossils. Recovered specimens shall be prepared so that they can be identified and permanently preserved. Specimens shall be identified and curated and placed into an accredited repository (such as the Western Science Center or the Riverside Metropolitan Museum) with permanent curation and retrievable storage.

A report of findings, including an itemized inventory of recovered specimens, shall be prepared upon completion of the steps outlined above. The report shall include a discussion of the significance of all recovered specimens. The report and inventory, when submitted to the City of Perris Planning Division, will signify completion of the program to mitigate impacts to paleontological resources. (City of Perris 2011)

III. <u>GEOLOGY</u>

Regionally, the project lies within the Perris Block, a structural block bounded on the west by the Elsinore fault zone and on the east by the San Jacinto fault zone (Morton 2003). The geology mapped underlying the project and immediate area indicates that the project is underlain by lower Pleistocene (approximately 1.8 million to perhaps 200,000 to 300,000 years old) very old alluvial fan deposits (labeled as "Qvof_a," and shown in brown on Figure 3) (Morton 2001, 2003). These sediments are described as "... mostly well dissected, well-indurated, reddish-brown sand deposits. Commonly contains duripans and locally silcretes" (Morton 2003). According to

Woodford et al. (1971), the alluvium overlying the granitic bedrock below the project is approximately 460 feet thick.

IV. PALEONTOLOGICAL RESOURCES

Definition

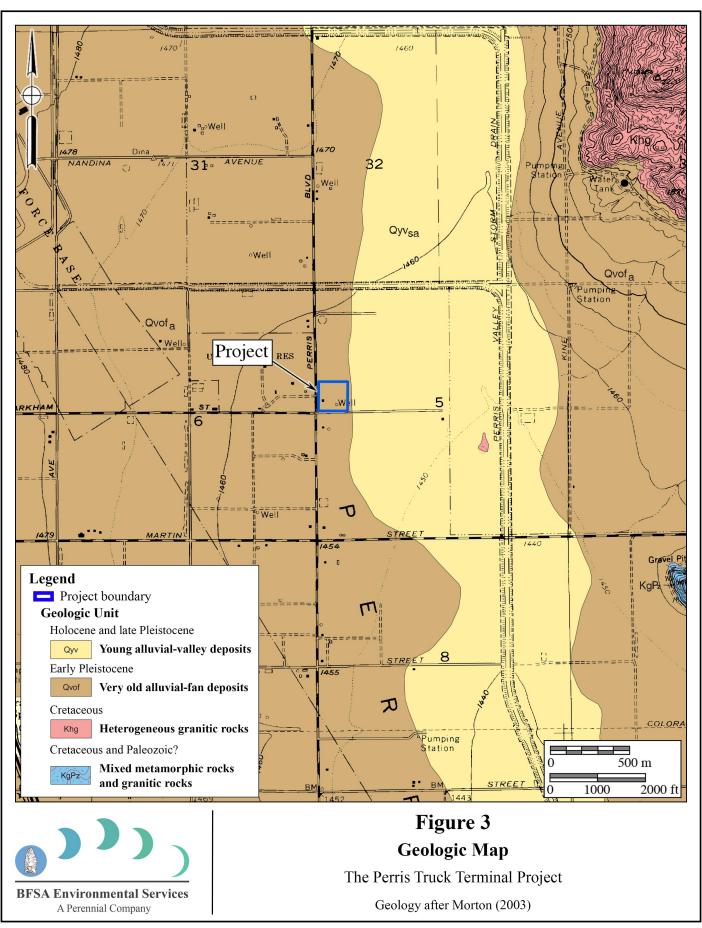
Paleontological resources are the remains of prehistoric life that have been preserved in geologic strata. These remains are called fossils and include bones, shells, teeth, and plant remains (including their impressions, casts, and molds) in the sedimentary matrix, as well as trace fossils such as footprints and burrows. Fossils are considered older than 5,000 years of age (Society of Vertebrate Paleontology [SVP] 2010), but may include younger remains (subfossils), for example, when viewed in the context of local extinction of the organism or habitat. Fossils are considered a nonrenewable resource under state and local guidelines (see Section II of this report, above).

Fossil Locality Search

A fossil locality search was recently conducted by the Los Angeles County Museum of Natural History (LACM) for adjacent parcels (APNs 302-110-031 and -032) east of the current project (McKenna 2020). The closest known fossil localities held by the LACM that are derived from similar geologic conditions as those of the current project are several miles distant.

A paleontological locality search was conducted for the Ramona Gateway Commerce Center Project by the Western Science Center (WSC) in Hemet (Radford 2021; Appendix B). The Ramona Gateway Commerce Center Project is located a half-mile south of the current project. The records search indicated there are no known fossil localities within the project or in the immediate area; however, Pleistocene-aged sedimentary deposits within Riverside County are considered to be of high paleontological sensitivity. The fossil bones of Pleistocene-aged mammals have been recovered from similar deposits in the region. In the records search letter, Radford (2021) concluded:

Any fossils recovered from the Ramona Webster [Ramona Gateway Commerce Center] Project area would be scientifically significant. Excavation activity associated with development of the area has the potential to impact the paleontologically sensitive Pleistocene alluvial units and it is the recommendation of the Western Science Center that a paleontological resource mitigation plan be put in place to monitor, salvage, and curate any recovered fossils associated with the current study area.



Project Survey

On April 8 and November 1, 2022, BFSA Environmental Services, a Perennial Company staff, under the supervision of Principal Investigator Todd A. Wirths, conducted an intuitive review of the property to determine if any paleontological resources were visible. The field methodology employed for the project included walking evenly spaced survey transects set approximately 10 meters apart while visually inspecting the ground surface. All potentially sensitive areas where paleontological resources might be located were closely inspected. No bedrock outcrops were exposed that might indicate the presence of fossils. No paleontological resources, or evidence of paleontological resources, were observed during the survey.

V. PALEONTOLOGICAL SENSITIVITY

Overview

The degree of paleontological sensitivity of any particular area is based on a number of factors, including the documented presence of fossiliferous resources on a site or in nearby areas, the presence of documented fossils within a particular geologic formation or lithostratigraphic unit, and whether or not the original depositional environment of the sediments is one that might have been conducive to the accumulation of organic remains that might have become fossilized over time. Holocene alluvium is generally considered to be geologically too young to contain significant nonrenewable paleontological resources (*i.e.*, fossils), and is therefore typically assigned a low paleontological sensitivity. However, Pleistocene (greater than 11,700 years old) alluvial and alluvial fan deposits in western Riverside County and the Inland Empire can yield important Ice Age terrestrial vertebrate fossils, such as extinct mammoths, mastodons, giant ground sloths, extinct species of horse, bison, and camel, saber-toothed cats, and others (Jefferson 1991). Therefore, these Pleistocene sediments are accorded a High paleontological resource sensitivity.

Professional Standard

The SVP (2010) has drafted guidelines that include four categories of paleontological sensitivity for geologic units (formations) that might be impacted by a proposed project, as listed below:

- <u>High Potential:</u> Rock units from which vertebrate or significant invertebrate, plant, or trace fossils have been recovered.
- <u>Undetermined Potential</u>: Rock units for which little information is available concerning their paleontological content, geologic age, and depositional environment, and that further study is needed to determine the potential of the rock unit.
- <u>Low Potential:</u> Rock units that are poorly represented by fossil specimens in institutional collections or based on a general scientific consensus that only preserve fossils in rare circumstances.

• *No Potential:* Rock units that have no potential to contain significant paleontological resources, such as high-grade metamorphic rocks and plutonic igneous rocks.

Using these criteria, based on the age of the geologic formation mapped at the project and the fossil record of the formation, the very old alluvial fan deposits at the project may be assigned a high potential to yield significant paleontological resources.

City of Perris Paleontological Sensitivity Assessment

Based on the Paleontological Sensitivity Map in the Conservation Element of the City's Comprehensive General Plan (City of Perris 2005 [Exhibit CN-7]), the Perris Truck Terminal Project is located within Area 4 and assigned a "low to high" paleontological sensitivity. Sites located within Area 4 require that paleontological monitoring be initiated once subsurface excavations reach five feet below the surface, with a stipulation that monitoring "levels" be reduced at the discretion of the project paleontologist, if appropriate (City of Perris 2005, Goal IV.A.4). However, because the project is also located within the area covered by the PVCCSP, it is subject to the mitigation measure guidelines specified within it (City of Perris 2011). MM Cultural 5 (City of Perris 2011) of the PVCCSP restricts the monitoring of paleontological resources to excavations exceeding five feet deep in subsurface areas of undisturbed older alluvium. The specific guidelines of MM Cultural 5 are presented in Section II of this study.

VI. CONCLUSIONS AND RECOMMENDATIONS

Research has confirmed the existence of potentially fossiliferous Pleistocene alluvial fan deposits mapped as underlying the Perris Truck Terminal Project (Qvofa on Figure 3), and the occurrence of terrestrial vertebrate fossils at shallow depths from Pleistocene older alluvial fan sediments across the Inland Empire and western Riverside County has been documented. The "High" paleontological sensitivity typically assigned to Pleistocene alluvial fan sediments for yielding paleontological resources supports the recommendation that paleontological monitoring be required during mass grading, trenching, and excavation activities in undisturbed Pleistocene alluvial fan sediments in order to mitigate any adverse impacts (loss or destruction) to potential nonrenewable paleontological resources.

As required by the PVCCSP, a Paleontological Resource Impact Mitigation Monitoring Program (PRIMMP) is required for submittal and approval prior to issuance of the grading permit. Full-time monitoring will be specified in the PRIMMP starting at a depth of five feet below the surface during earth disturbance activities, as required by the City of Perris (City of Perris 2005) and the PVCCSP. Suggested monitoring guidelines to be contained in the proposed PRIMMP are detailed below. When implemented with the provisions of CEQA, and the guidelines of the SVP (2010), these guidelines would mitigate any adverse impacts (loss or destruction) to potential nonrenewable paleontological resources (fossils), if present, to a level below significant.

- Monitoring of mass grading and excavation activities in areas identified as likely to contain paleontological resources shall be performed by a qualified paleontologist or paleontological monitor. Full-time monitoring for paleontological resources will be conducted in areas where grading, excavation, or drilling activities occur at five feet or deeper in order to mitigate any adverse impacts (loss or destruction) to potential nonrenewable paleontological resources. Monitoring of artificial fill and disturbed soils is not warranted.
- 2. If a fossil(s) is found at a shallower depth, earth disturbance activities should be halted within a radius of 50 feet from the location of the fossil, and a project-level paleontologist shall be consulted to determine the significance of the fossilized remains. If the fossil is deemed significant by the project-level paleontologist, full-time monitoring should be initiated at the project.
- 3. Paleontological monitors will be equipped to salvage fossils as they are unearthed to avoid construction delays and to remove samples of sediment that are likely to contain the remains of small fossil invertebrates and vertebrates. The monitor must be empowered to temporarily halt or divert equipment to allow for the removal of abundant or large specimens in a timely manner. The monitor shall notify the project paleontologist, who will then notify the concerned parties of the discovery. Monitoring may be reduced if the potentially fossiliferous units are not present in the subsurface, or if they are present, are determined upon exposure and examination by qualified paleontological personnel to have low potential to contain fossil resources.
- 4. Preparation of recovered specimens to a point of identification and permanent preservation will be conducted, including screen-washing sediments to recover small vertebrates and invertebrates if indicated by the results of test sampling. Preparation of any individual vertebrate fossils is often more time-consuming than for accumulations of invertebrate fossils.
- 5. All fossils must be deposited in an accredited institution (university or museum) that maintains collections of paleontological materials. The WSC in Hemet, California, is the preferred institution by the County of Riverside and the PVCCSP. All costs of the paleontological monitoring and mitigation program, including any one-time charges by the receiving institution, are the responsibility of the developer.
- 6. Preparation of a final monitoring and mitigation report of findings and significance will be completed, including lists of all fossils recovered and necessary maps and graphics to accurately record their original location(s). A letter documenting receipt and acceptance of all fossil collections by the receiving institution must be included in the final report. The report, when submitted to and accepted by the appropriate lead agency (e.g., the City of Perris), will signify satisfactory completion of the project program to mitigate impacts to any nonrenewable paleontological resources.

VII. <u>CERTIFICATION</u>

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

Todd A. Wirths

Senior Paleontologist

California Professional Geologist No. 7588

November 4, 2022

Date

VIII. REFERENCES CITED

- City of Perris. 2005. Conservation Element, City of Perris General Plan. Electronic document, http://www.cityofperris.org/city-hall/general-plan/Conservation_Element_01-08-09.pdf.
- City of Perris. 2011. Perris Valley Commerce Center Specific Plan Draft EIR. Electronic document, http://www.cityofperris.org/city-hall/specific-plans/PVCC/PVCC-DEIR% 2007-20-11.pdf.
- Jefferson, G.T. 1991. A catalogue of late Quaternary vertebrates from California: Part two, mammals. Natural History Museum of Los Angeles County, Technical Reports, no. 7: i-v + 1-129.
- McKenna, J.A. 2020. A Phase I Cultural Resource Investigation for the Perris Truck Terminal Project on Markham Street, Perris, Riverside County, California. Unpublished consulting report prepared for Lilburn Corporation, San Bernardino, California, by McKenna et al., Whittier, California.
- Morton, D.M. 2001. Geologic map of the *Steele Peak* 7.5' Quadrangle, Riverside County, California: U. S. Geological Survey Open-File Report 01-449, scale 1:24,000.
- Morton, D.M. 2003. Preliminary geologic map of the *Perris* 7.5' Quadrangle, Riverside County, California: U. S. Geological Survey Open-File Report 03-270, scale 1:24,000.
- Radford, D. 2021. Untitled letter regarding paleontological resources near the Ramona Webster Project, to Brian F. Smith and Associates, Inc., Poway, California, by the Western Science Center, Hemet, California. (attached)
- Society of Vertebrate Paleontology. 2010. Standard procedures for the assessment and mitigation of adverse impacts to paleontological resources; by the SVP Impact Mitigation Guidelines

Revision Committee: https://vertpaleo.org/wp-content/uploads/2021/01/SVP_Impact_Mitigation_Guidelines-1.pdf.

Woodford, A.O., Shelton, J.S., Doehring, D.O., and Morton, R.K. 1971. Pliocene-Pleistocene history of the Perris Block, southern California. Geological Society of America Bulletin, v. 82, p. 3421–3448, 18 figs.

APPENDIX A

Qualifications of Key Personnel

Todd A. Wirths, MS, PG No. 7588

Senior Paleontologist

Brian F. Smith and Associates, Inc. 14010 Poway Road • Suite A •

Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: twirths@bfsa-ca.com



Education

Master of Science, Geological Sciences, San Diego State University, California

1995

Bachelor of Arts, Earth Sciences, University of California, Santa Cruz

1992

Professional Certifications

California Professional Geologist #7588, 2003
Riverside County Approved Paleontologist
San Diego County Qualified Paleontologist
Orange County Certified Paleontologist
OSHA HAZWOPER 40-hour trained; current 8-hour annual refresher

Professional Memberships

Board member, San Diego Geological Society San Diego Association of Geologists; past President (2012) and Vice President (2011) South Coast Geological Society Southern California Paleontological Society

Experience

Mr. Wirths has more than a dozen years of professional experience as a senior-level paleontologist throughout southern California. He is also a certified California Professional Geologist. At BFSA, Mr. Wirths conducts on-site paleontological monitoring, trains and supervises junior staff, and performs all research and reporting duties for locations throughout Los Angeles, Ventura, San Bernardino, Riverside, Orange, San Diego, and Imperial Counties. Mr. Wirths was formerly a senior project manager conducting environmental investigations and remediation projects for petroleum hydrocarbonimpacted sites across southern California.

Selected Recent Reports

- 2019 Paleontological Assessment for the 10575 Foothill Boulevard Project, City of Rancho Cucamonga, San Bernardino County, California. Prepared for T&B Planning, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2019 Paleontological Assessment for the MorningStar Marguerite Project, Mission Viejo, Orange County, California. Prepared for T&B Planning. Report on file at Brian F. Smith and Associates, Inc., Poway, California.

- 2019 *Paleontological Monitoring Report for the Nimitz Crossing Project, City of San Diego.* Prepared for Voltaire 24, LP. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2019 Paleontological Resource Impact Mitigation Program (PRIMP) for the Jack Rabbit Trail Logistics Center Project, City of Beaumont, Riverside County, California. Prepared for JRT BP 1, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Monitoring Report for the Oceanside Beachfront Resort Project, Oceanside, San California. Prepared for S.D. Malkin Properties. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Resource Impact Mitigation Program for the Nakase Project, Lake Forest, Orange County, San California. Prepared for Glenn Lukos Associates, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Resource Impact Mitigation Program for the Sunset Crossroads Project, Banning, Riverside County. Prepared for NP Banning Industrial, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Assessment for the Ortega Plaza Project, Lake Elsinore, Riverside County. Prepared for Empire Design Group. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Resource Record Search Update for the Green River Ranch III Project, Green River Ranch Specific Plan SP00-001, City of Corona, California. Prepared for Western Realco. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Assessment for the Cypress/Slover Industrial Center Project, City of Fontana, San Bernardino County, California. Prepared for T&B Planning, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2020 Paleontological Monitoring Report for the Imperial Landfill Expansion Project (Phase VI, Segment C-2), Imperial County, California. Prepared for Republic Services, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 Paleontological Assessment for the Manitou Court Logistics Center Project, City of Jurupa Valley, Riverside County, California. Prepared for Link Industrial. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 Paleontological Resource Impact Mitigation Program for the Del Oro (Tract 36852) Project, Menifee, Riverside County. Prepared for D.R. Horton. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 Paleontological Assessment for the Alessandro Corporate Center Project (Planning Case PR-2020-000519), City of Riverside, Riverside County, California. Prepared for OZI Alessandro, LLC. Report on file at Brian F. Smith and Associates, Inc., Poway, California.
- 2021 Paleontological Monitoring Report for the Boardwalk Project, La Jolla, City of San Diego. Prepared for Project Management Advisors, Inc. Report on file at Brian F. Smith and Associates, Inc., Poway, California.

APPENDIX B

Fossil Locality Search



May 26, 2021

Brian F. Smith and Associates Todd Wirths 14010 Poway Road, Suite A Poway, CA 92064

Dear Mr. Wirths,

This letter presents the results of a record search conducted for Ramona Webster Project in the city of Perris, Riverside County, California. The project site consists of 52 acres located south of Ramona Expressway, west of Webster Avenue, east of I-215 and north of Morgan Avenue in Section 12, Township 4 South and Range 4 West on the *Perris, CA* USGS 7.5 minute topographic quadrangle.

The geologic unit underlying the project area is mapped entirely as very old alluvial fan deposits dating to the early Pleistocene epoch (Morton, Bovard & Alvarez, 2003). Pleistocene alluvial units are considered to be of high paleontological sensitivity. The Western Science Center does not have localities within the project area or a one mile radius, but does have numerous localities within similarly mapped alluvial sediments throughout the region. Pleistocene alluvial deposits in southern California are well documented and known to contain abundant fossil resources including those associated with Columbian mammoth (*Mammuthus columbi*), Pacific mastodon (*Mammut pacificus*), Sabertooth cat (*Smilodon fatalis*), Ancient horse (*Equus sp.*) and many other Pleistocene megafauna.

Any fossils recovered from the Ramona Webster Project area would be scientifically significant. Excavation activity associated with development of the area has the potential to impact the paleontologically sensitive Pleistocene alluvial units and it is the recommendation of the Western Science Center that a paleontological resource mitigation plan be put in place to monitor, salvage, and curate any recovered fossils associated with the current study area.

If you have any questions, or would like further information, please feel free to contact me at dradford@westerncentermuseum.org

Sincerely,

Darla Radford Collections Manager