

MITIGATED NEGATIVE  
DECLARATION  
and INITIAL STUDY

Conditional Use Permit 23-005  
Site Plan Review 22-010  
March 2024

Prepared for:

City of Palmdale  
38250 Sierra Highway  
Palmdale, California 93550

Prepared by:

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Wildlife Biologist  
B.S. Degree, Wildlife Management  
Humboldt State University

## INITIAL STUDY

1. PROJECT TITLE: Conditional Use Permit 23-005/Site Plan Review 22-010
2. LEAD AGENCY NAME AND ADDRESS:  
City of Palmdale  
Economic and Community Development Department, Planning Division  
38250 Sierra Highway, Palmdale, California, 93550
3. CONTACT PERSON AND PHONE NUMBER:  
Sam Dominguez, Assistant Planner, 661.267.5216
4. PROJECT LOCATION: APNs 3005-010-025 and 026, Palmdale, California. Approximately 2 acres (0.8 ha). The project area is located south of Avenue O, and west of 10<sup>th</sup> Street West, T6N, R12W, a portion of the NE1/4 of the NE1/4 of the NE1/4 of the NE1/4 of Section 16 (Figures 1 and 2).
5. PROJECT SPONSOR'S NAME AND ADDRESS:  
Shawna Ricker  
661.952.7918  
[shawna@duke-engineering.com](mailto:shawna@duke-engineering.com)  
Duke Engineering  
44732 Yucca Avenue  
Lancaster, California 93534
6. GENERAL PLAN DESIGNATION: VC (Visitor Commercial)
7. ZONING: VC
8. DESCRIPTION OF PROJECT: The proposed project consists of the construction and operation of one (1) 4,988 square foot convenience store, gas station fuel areas and canopy, underground fuel tanks, and one (1) 5,400 square foot drive through restaurant. An Alcoholic Beverage Control (ABC) license 20 to provide beer and wine in the convenience store will be requested. Off-site roadway improvements along 10<sup>th</sup> Street West and Avenue O are planned for better traffic control. Specific details of the project are depicted on the site plan (Appendix A):
9. SURROUNDING LAND USES AND SETTING: Lands adjacent to the north, east, west, and south of the project site are zoned Visitor Commercial. Lands zoned Equestrian Residential are approximately 400 feet to the north and approximately 425 feet to the west of the project site. Land zoned Light Industrial are present approximately 400 feet to the north and approximately 480 feet to the northeast. Land zoned Regional Commercial are present approximately 760 feet to the south. Nearby lands are zoned equestrian residential, regional commercial, flex employment, and industrial. A single-family home is present approximately 170 feet to the southwest (Figures 2 and 3).

Figure 1. Vicinity Map

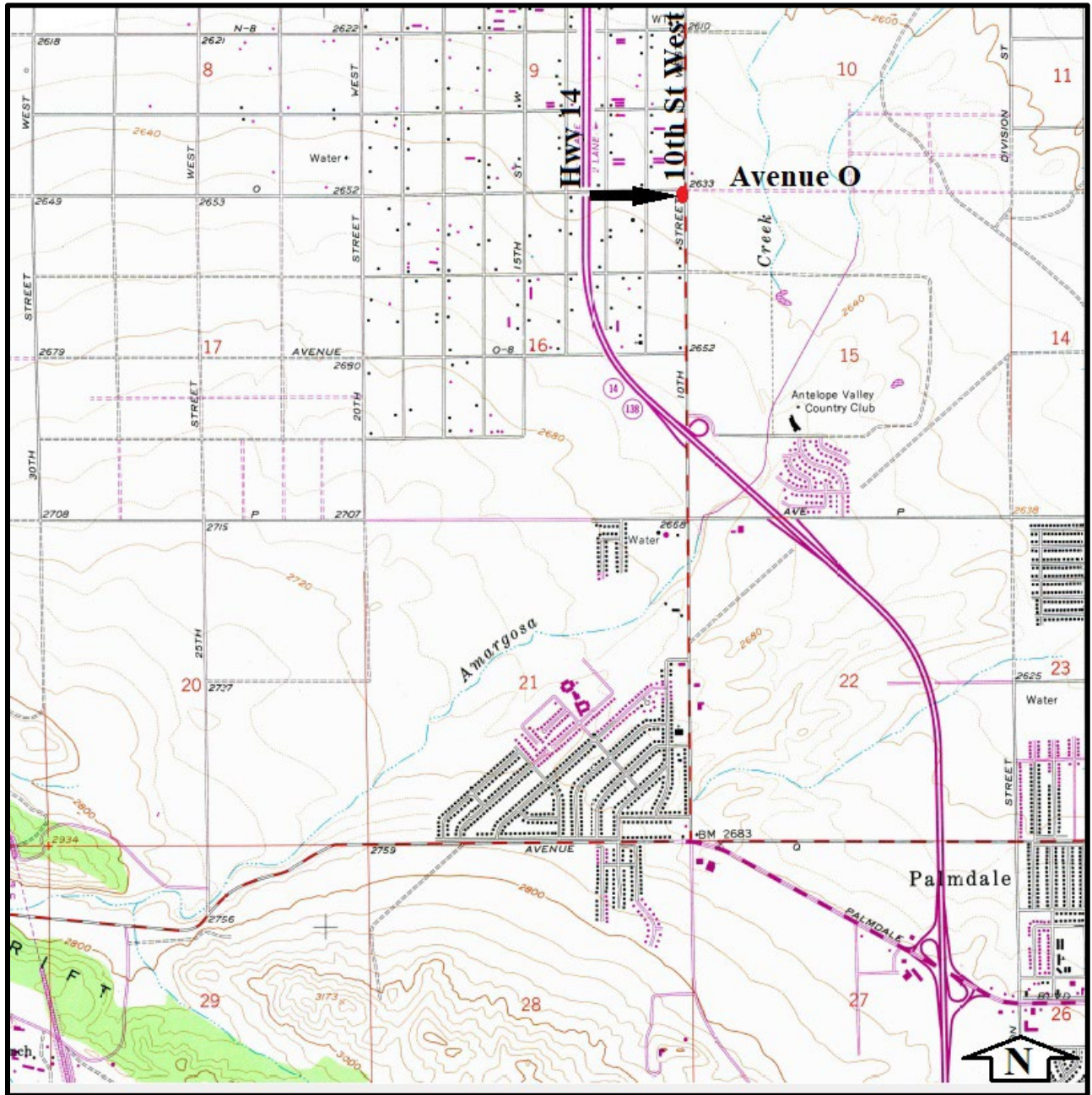


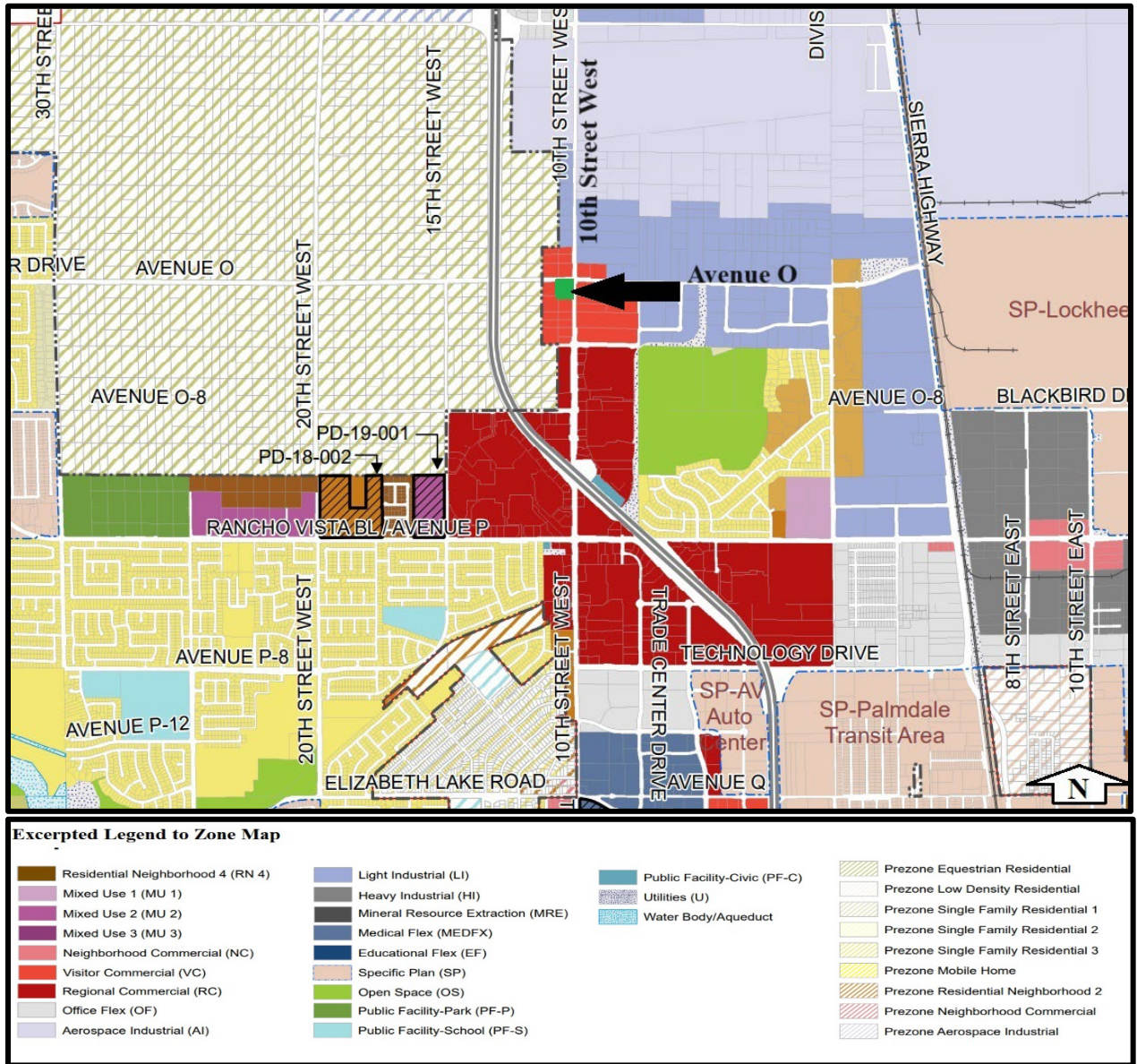


Figure 2. Aerial (Google Earth 2022)





Figure 3. Zone Map



Excerpt is from Palmdale General Plan 2045. Black arrow and green square added to indicate project site location.

10. OTHER PUBLIC AGENCIES WHOSE APPROVAL IS REQUIRED (e.g., permits, financing approval, or participation agreement). Distribution of this document is appropriate, but not limited, to the following agencies:

Lahontan Regional Water Quality Control Board  
Antelope Valley Air Quality Management District  
Los Angeles County Sanitation District 14  
Los Angeles County Fire

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1?

The Native American Heritage Commission was notified and responded with negative results on their sacred land search. A list of potential tribes that may be interested was provided. Consultation with appropriate tribes was made and concerns were incorporated into this document under Tribal Cultural Resources and the Mitigation, Monitoring, and Reporting Plan.

1. Aesthetics:	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Have a substantial adverse effect on a scenic vista?				X
<p>The project site is not located next to a scenic vista. Vistas surrounding the project site consist primarily of highly disturbed desert, single-family homes, roadways, and commercial development. There would be no adverse effect on a scenic vista. The closest vista that could be considered “scenic” would be the Lamont Odett Vista Point overlooking Lake Palmdale from State Route 14 (SR-14). This overlook is 13 miles from the project site.</p>				
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				X
<p>There are no trees, rock outcroppings, or historic buildings on the project site (Appendix B). No damage would occur to scenic resources. The closest vista that could be considered “scenic” would be the Lamont Odett Vista Point overlooking Lake Palmdale from SR-14. This overlook is 13 miles from the project site.</p>				
c) Substantially degrade the existing visual character or quality of the site and its surroundings?				X
<p>The vacant land which makes up the project site and land immediately adjacent have already been disturbed through development and use. Housing, commercial facilities, and impacted land occurred prior to 1995 based on Google Earth aerial photography. The project site was disturbed, possibly through grading, prior to 2003 based on Google Earth aerial photography. This facility would just become a part of the existing view in the area. Development as planned will blend with the surrounding area and will follow Palmdale Municipal Code (PMC) requirements such as those found in Chapter 17 for aesthetically pleasing construction. The proposed project would not substantially degrade the existing visual character or quality of the site or its surroundings.</p>				
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				X
<p>This project would create a new source of light, to include lighting for the parking lot, gas pump canopies, building lights, illuminated signage for the gas prices and for the drive through restaurant. The additional lighting would not be considered substantial given the existing surrounding uses. Major shopping centers and restaurants are present to the south, residential housing to the west, and commercial facilities are present to the north. This project is situated within a commercial use area and is compatible with allowable uses within the VC zone. The project will incorporate standards detailed within the PMC for lighting.</p>				



<p><b>2. Agriculture Resources:</b> In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:</p>	<p><b>Potentially Significant Impact</b></p>	<p><b>Less than Significant with Mitigation</b></p>	<p><b>Less Than Significant</b></p>	<p><b>No Impact</b></p>
<p>a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?</p>				<p>X</p>
<p>This project site is not considered prime, unique, or farmland of statewide importance based on the Farmland Mapping and Monitoring Program - <a href="http://DLRP.ImportantFarmlandFinder.ca.gov">DLRP Important Farmland Finder (ca.gov)</a> . The project site is zoned Visitor Commercial (VC) and not considered agricultural (City of Palmdale 2022).</p>				
<p>b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?</p>				<p>X</p>
<p>No. There are no Williamson Act contracts within the City of Palmdale (Rincon 2022).</p>				
<p>c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?</p>				<p>X</p>
<p>There is no noted farmland nearby and therefore no conversion of farmland to non-agricultural use could occur. The area, both project site and adjacent sites, are zoned visitor commercial.</p>				

3. Air Quality: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				X
Development and operation of this project will comply with all applicable district rules and regulations, and proposed control measures as required by the Antelope Valley Desert Air Quality Management District (AVAQMD). By complying with these rules, regulations, and measures the project would not conflict with or obstruct implementation of the air quality plan. Additionally, the use of new and better emission control devices reduce any significant amount of contaminants from being emitted into the air at the pumps. This project is located within an appropriately zoned area (Visitor Commercial). The VMT evaluation determined the project did not require a traffic study as it falls within the adopted screening criteria of less than 50,000 square feet of retail project size (Rutettgers & Schuler 2024).				
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				X
The Antelope Valley is in an ozone and particulate matter nonattainment region. The Air Quality Plan has specific measures incorporated within it which address this and must be followed. As long as development and operations are able to follow those required measures they cannot cause a cumulatively considerable increase in any criteria for which a region is in nonattainment. Dust controls are incorporated into the construction process and are closely monitored by the City. Emission control measures are incorporated into the tanks, pumps, and processes required to be followed by all gas stations.				
Also see a) above.				
c) Expose sensitive receptors to substantial pollutant concentrations?				X
No sensitive receptors are present around the project site and therefore no exposure could occur.				
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				X
Typical construction odors would be expected and would be temporary. These odors would not affect a substantial number of people. Objectionable odors of the nature expected to affect a substantial number of people would be those such as landfills, and sewage treatment facilities. Emissions from gas stations are tightly controlled through required emission control features, Antelope Valley Air Quality Management District (AVAQMD) rules and regulations, and inspections.				

4. Biological Resources Would the project:	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		X		
The biological report for this project site indicated no sensitive plant or wildlife species were observed (Wolfe 2022, Appendices B and C). The report does indicate the potential for burrowing owls, some species of migratory birds or other sensitive species to potentially move into the project site. Mitigation measures to avoid impacts to any sensitive species were developed within the biological report and have been included in the MMRP (Appendix D). Mitigation measures recommended by the biological report are more than sufficient to ensure no substantial adverse effects would occur due to this project (Appendix D).				
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?				X
There is no riparian habitat or sensitive natural community present on the project site.				
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
There are none of these features within the project site.				
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X
There is no evidence of any movement corridors or nursery sites within this project area. This project will not interfere with the movement of fish or wildlife species, migratory corridors, or wildlife nursery sites.				
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X
There are no sensitive resources within the project site which could be impacted (Wolfe 2022).				
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				X
There are none of these plans in effect in this area. Palmdale does have a native plant ordinance; Title 14. Environmental Management, Chapter 14.04, Joshua tree and Native Desert Vegetation Preservation.				



5. Cultural Resources	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?		X		
No adverse change would be expected. A Cultural Resources Report was completed for the project site (Hudlow 2022, Appendix E). There was no observation of any historical resources on the project site. The Records Search returned with a negative finding for cultural resources. However, mitigation measures will be employed in the event resources or remains are discovered during construction. These measures are listed in the MMRP (Appendix D).				
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?				X
No archaeological resources are present within this project site (Hudlow 2022). No indication of human remains was observed on the project site.				
c) Disturb any human remains, including those interred outside of dedicated cemeteries?		X		
No indication of human remains was observed on the project site. See b) above. Mitigation measures will be employed in the event resources or remains are discovered during construction. These measures are listed in the MMRP (Appendix D).				
6. Energy	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				X
During construction and operation, this project will be required to comply with the latest Environmental Protection Agency (EPA) and California Air Resources Board (CARB) emissions standards as well as Title 24 Building Efficiency Standards. Following these standards will ensure no significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources occur.				
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficient?				X
This project will comply with applicable regulations and City of Palmdale General Plan policies to prevent wasteful, inefficient, or unnecessary consumption of energy resources during construction and operation. The project will construct and operate in a manner consistent with energy efficiency goals contained in the City of Palmdale Energy Action Plan. Construction and operation would comply with relevant provisions of the State's CALGreen and Title 24 of the California Energy Code (City of Palmdale 2022, Rincon 2022).				

7. <b>Geology and Soils:</b> Would the project	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Directly or indirectly cause substantial adverse effects, including the risk of loss, injury, or death involving: <ul style="list-style-type: none"> <li>i) rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.</li> <li>ii) Strong seismic ground shaking?</li> <li>iii) Seismic-related ground failure, including liquefaction?</li> <li>iv) Landslides?</li> </ul>				X
i) The project site is not located within the Alquist-Priolo special studies zone (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022). ii) Strong seismic shaking could occur anywhere in Southern California. The facilities would have to comply with the California Building Codes. iii) the potential for on-site liquefaction or seismically induced dynamic settlement should be negligible (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022). iv) Site topography is relatively flat, hazards from landslides are considered negligible (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022).				
b) Result in substantial soil erosion or the loss of topsoil?				X
Grading and soil disturbance will create some soil erosion and loss of topsoil but due to requirements in the Stormwater Pollution Prevention Plan (SWPP) which will be part of the construction these actions will not result in substantial soil erosion or loss of topsoil. The subject site drainage occurs by minor sheet flow and erosion could occur. Measures have been incorporated into the construction that will minimize any sheet flow erosion potential (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022).				
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				X
The project would comply with the California Building Code and incorporate recommendations from the geo-technical and soils report into the development of the project. Liquefaction on this project site should be negligible (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022)				
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				X
The expansion index tests (ASTM D 4829) indicate that the upper site soils are considered to have a “very low”(0-20) expansion potential (Earth Systems 2008, Bruin Geotechnical Services Inc. 2022). Therefore, no substantial risks to life or property would be expected.				

7.Geology and Soils Cont: Would the project	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				X
The project will connect to the city sewer system. No septic tanks or alternative waste water disposal systems are planned.				
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		X		
There were no indication of any paleontological resources and no unique geologic features present or expected. However, mitigation measures will be employed in the event resources are discovered during construction. These measures are listed in the MMRP (Appendix D).				



<b>8.Greenhouse Gas Emissions:</b> Would the project:	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				X
Although an Air Quality and GHG Study was not accomplished a project of this small size, following all AVAQMD rules, would have a de minimums effect directly or indirectly.				
b) Conflict with an applicable plan, policy, or r egulation adopted for the purpose of reducing the emissions of greenhouse gases?		X		
<p>Given that greenhouse gases would be well below the applicable AVAQMD Significant Emissions Thresholds no conflict could occur. The project incorporates energy-efficiency and green building standards as detailed within the California Building Standards Code and in the City of Palmdale General Plan.</p>				

9. Hazards and Hazardous Materials	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				X
<p>All processes which include the use (transporting, delivery, handling, storage, etc.) of hazardous materials (gasoline and diesel fuel primarily) would comply with all applicable, Federal, State and local agencies and regulations, including the U.S. Environmental Protection Agency; the California Department of Transportation, The California Department of Toxic Substance Control; the California Department of Industrial Relations; the Resource of Conservation and Recovery Act (RCRA); and the Los Angeles County Fire Department (LACFD), which is the Certified Unified Program Agency for Los Angeles County. Underground storage tanks (UST) would be permitted by the Los Angeles County Department of Public Works (LACDPW) Environmental Programs Division. These USTs would store gas and diesel fuel on the project site. Routine inspections are made by Federal, State and local regulatory agencies with jurisdiction over fuel dispensing facilities. Provisions established by Section 2540.1, Gasoline Dispensing and Service Stations, of the California Occupational Safety and Health Regulations; Chapter 38, Liquefied Petroleum Gases, of the California Fire Code; RCRA and LACFD must be followed to remain in operation. Given the regulatory parameters, impacts associated with handling, storing and dispensing of hazardous material would be less than significant.</p>				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				X
Note a) above.				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				X
<p>No schools are within one-quarter mile. Highland High School is located 2 miles to the southwest. In addition, this project is located in an area zoned commercial and adjacent to industrial.</p>				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				X
<p>An Envirostor search was completed for the project site. No hazardous materials sites were within 0.5 miles of the project site (distance that was researched).</p>				

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				X
This project site is not within an airport land use plan.				
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				X
This project is not located within the vicinity of a private airstrip.				
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				X
Development of this project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. This project is in an appropriately zoned area where these issues were previously considered when zoning was approved.				
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				X
The context of the project site is such that a risk to wildland fires would be anticipated to be low to nonexistent.				



10. Hydrology and Water Quality	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Violate any water quality standards or waste discharge requirements?		X		
<p>The project will apply National Pollutant Discharge Elimination System (NPDES) best management practices to ensure water quality standards and waste discharge requirements are met. The required Stormwater Pollution Prevention Plan (SWPPP) further ensures no violations would occur. An underground detention system, catch basin, pumps, and filters to clean and remove water during a storm event will be constructed for the project (Duke Engineering 2022a). Mitigation measures to be applied are listed in the MMRP (Appendix D).</p>				
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				X
<p>Approximately 1.5 acre feet of water per year is projected to be used for this project. Water will be obtained through connection to the City water supply (Los Angeles Water District 40). This minimal amount of water per year would not be enough to substantially deplete groundwater supplies or interfere with groundwater recharge.</p>				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in: i)substantial erosion or siltation on- or off-site? ii)substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site? iii)create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? iv)impede or redirect flood flows?				X
<p>i) through iv) Best management practices as required by both NPDES and the SWPPP as overseen by Lahontan Water Quality Control Board ensures control of erosion and siltation during construction. Sufficient drainage controls through detention basins, catch basins and pumps will be incorporated into the project development to prevent flooding on or off site and prevent exceedance of existing drainage systems (Duke Engineering 2022b).</p>				
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				X
Not applicable.				
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				X
<p>The proposed project is being developed within an already evaluated area zoned for commercial. This development is small, normal construction, and normal operations fitting within the bounds expected within the General Plan for build out (City of Palmdale 2022).</p>				

<b>11. Land Use and Planning</b>	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Physically divide an established community?				X
This project site and adjacent areas are zoned visitor commercial. Commercial development is present to the north and south of the project site. No community would be divided.				
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				X
No conflict with any applicable plan or regulation would occur. The project site is zoned appropriately for the planned project.				
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?				X
Currently there are no habitat conservation or natural community conservation plans that cover this area. Palmdale does have a native plant ordinance; Title 14. Environmental Management, Chapter 14.04, Joshua tree and Native Desert Vegetation Preservation.				
<b>12. Mineral Resources</b>	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X
No loss of known mineral resources would occur due to development of this site. Mineral resources of concern are located east of 62nd Street East (City of Palmdale 2022).				
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				X
See a) above.				

13. Noise	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				X
Construction of the site would be required to follow established standards within the General Plan (City of Palmdale 2022, Rincon 2022). This area is within a commercial and industrial area where noise sensitive receptors are not present. Construction noise would be considered within normal conventional standards for this type of development. Operation of the gas station and associated structures is within the standards expected of a commercial development.				
b) Generation of excessive groundborne vibration or groundborne noise levels?				X
Normal conventional construction noise would be expected during development of this project. Operations would be consistent with a commercial/industrial area and not have equipment operating that would create groundborne vibration or groundborne noise levels.				
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X
This site is not located in the vicinity of an airstrip or airport. Plant 42 is approximately 2.5 miles to the northeast. This project is not within any Plant 42 Accident Potential Zones as noted in chapter 8 of the Palmdale General Plan (City of Palmdale 2022).				

<b>14. Population and Housing</b>	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				X
No new homes are being proposed. This project is a relatively small business which would not generate substantial population growth.				
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				X
No housing would be displaced due to development of this project site.				
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				X
No people would be displaced due to development of this project site.				
<b>15. Public Services:</b>	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				X
Fire Protection				X
Police Protection				X
Schools, parks, other public facilities				X
The project is compatible with the City's land designation and impacts on public services were evaluated for the General Plan (Rincon 2022, City of Palmdale 2022). Construction would be required to meet all current fire codes. This facility is not expected to increase population levels that would impact or cause a need for new facilities.				

<b>16. Recreation</b>	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X
This is a relatively small business that would not have a significant impact on parks or other recreational facility.				
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				X
No recreational facilities nor need for recreational facilities will occur due to development of this project site.				
<b>17. Transportation</b> Would the project:	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				X
A proposed bike path is planned for Avenue O and for 10 <sup>th</sup> Street West, along the north and east boundary of the project site. Modifications to Avenue O and 10 <sup>th</sup> Street West are planned as part of this project. As the improvements along Avenue O and 10 <sup>th</sup> Street West are accomplished consideration for the City's planned bike paths could be incorporated into project development. This project will not conflict with the accepted circulation system addressed in the City of Palmdale General Plan.				
b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?				X
This is a relatively small site within an already developed commercial and industrial area. Avenue O and 10 <sup>th</sup> Street West are considered Crosstown streets. A high frequency transit corridor is planned for 10 <sup>th</sup> Street West (City of Palmdale 2022). Within the CEQA Guidelines Section 15064.3 it is noted that "Generally, projects within one half mile of ...an existing high quality transit corridor should be presumed to cause a less than significant transportation impact." With the planned improvements, number of cars noted in the trip generation letter, and approved zoning this project would not be expected to conflict or be inconsistent with the CEQA Guidance.				
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				X
Planned street improvements are being incorporated into the project to ensure no hazardous geometric design features occur.				
d) Result in inadequate emergency access?				X
Roads bordering the project site are sufficient to provide emergency access for this planned use. The project is within an already evaluated land designation for commercial and industrial use which has considered emergency access.				

<b>18. Tribal Cultural Resources:</b> Would the project cause a substantial adverse change in the significance of a Tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:	<b>Potentially Significant Impact</b>	<b>Less than Significant with Mitigation</b>	<b>Less Than Significant</b>	<b>No Impact</b>
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k)				X
There are no resources present on this site listed in the California Register of Historical Resources or in a local register.				
b) A resource determined by the lead agency, in its discretion and is supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code section 5024.1. In applying the criteria set forth in subdivision ( c) of Public Resources Code section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe.				X
<p>The Palmdale Planning Department contacted the appropriate Tribes to determine if there were any concerns. Sarah Brunzell, Manager for the Cultural Resources Management Division, Tribal Historic and Cultural Preservation Department for the Fernandeano Tataviam Band of Mission Indians responded. Ms. Brunzell’s response via email is presented here: “The proposed project is located near a seasonal occupation site where both milling and lithic reduction occurred. The proposed project is also in close proximity to State Route (SR) 138 which was constructed over prehistoric Native American trails used for lifeways. It is likely ancestors who utilized both the season occupation site and prehistoric trail also engaged with the land at the proposed project site due to its location.”</p> <p>It is not known where the seasonal occupation site Ms. Brunzell refers to but proximity to SR-138 is approximately 6 miles to the southeast of the project site.</p> <p>Based on the Hudlow Cultural Resource Report (Appendix E) there was no observation of any historical resources on the project site. The Records Search returned with a negative finding for cultural resources.</p> <p>Mitigation measures as requested by Ms. Brunzell have been incorporated into the MMRP (Appendix D).</p>				



19. Utilities and Service Systems	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				X
Analysis was accomplished on sewer and drainage issues as these were considered to be the most likely to have the opportunity for impacts. Adequately sized sewer lines and new manhole will be constructed for this project (Duke Engineering 2022a). An underground detention system, catch basin, pumps, and filters to clean and remove water during a storm event will be constructed for the project which will address drainage issues (Duke Engineering 2022b).				
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				X
This facility is projected to use approximately 1.5 acre feet of water annually for its operations. This is a small facility as the water usage indicates. Sufficient water supplies would be expected to be available to support an operation of this size.				
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				X
The current capacity of the Lancaster Water Reclamation Plant has a capacity of 18mgd. It is currently using approximately 14.6 mgd (Los Angeles County Sanitation Districts (LACSD) 2022). Since only 1.5 acre feet of water is projected to be used a year it can be seen that wastewater generation by this project would be infinitesimal.				
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impact the attainment of solid waste reduction goals?				X
Sufficient landfill space is available for a project this size. This project is not expected to impact attainment of solid waste reduction goals. Recycling protocols are part of normal operating functions.				
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				X
This new development would have to implement recycling programs with a 50 percent diversion of solid waste based on Assembly Bill 939 and the County Integrated Waste Management Plan. The project will comply with all federal, state, local management and reduction statutes/regulations for solid waste.				

20. Mandatory Findings of Significances	Potentially Significant Impact	Less than Significant with Mitigation	Less Than Significant	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				X
No, there are no valuable habitats, plants, or wildlife within this project site and no examples of California history or prehistory. This site has been highly disturbed and no important examples of history, prehistory or natural features exist within the site.				
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				X
No cumulatively considerable impacts are expected from this project. The project has a small footprint, is within an already zoned commercial area which had been planned and evaluated within the General Plan (City of Palmdale 2022, Rincon 2022).				
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				X
As noted in the individual elements of this checklist there are no significant impacts in any of the categories. There is nothing unusual or large about this project. This is a conventional straightforward project that will not cause substantial adverse effects on human beings directly or indirectly.				

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## **Appendix A Site Plan**



**GENERAL NOTES**

1. CONCRETE SIDEWALKS WHERE ADJACENT TO EXISTING SIDEWALKS SHALL HAVE JOINTS AND EDGES TO MATCH EXISTING THROUGHOUT. ALL CONTROL OR CONSTRUCTION JOINTS SHALL MATCH EXISTING IN APPEARANCE AND SPACING. PROVIDE EXPANSION JOINTS EVERY 20 FEET OR AS INDICATED ON THE DRAWINGS OR DIRECTED OTHERWISE. CONCRETE FINISH SHALL HAVE A STEEL HAND TROWEL SMOOTH OR BROOM FINISH TO MATCH EXISTING. SEE CIVIL DRAWINGS FOR SCOPE OF WORK.
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. ALL DIMENSIONS SHALL BE TO THE FACE OF STUD, OR TO THE FACE OF CONCRETE, OR TO THE FACE OF MASONRY, UNLESS OTHERWISE NOTED OR DETAILED.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE JOBSITE CONDITIONS, ADDRESS AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT IN WRITING. THESE CONDITIONS SHALL BE RESOLVED PRIOR TO THE START OF ANY WORK OR DEMOLITION. WRITTEN CLARIFICATION(S) FROM THE ARCHITECT WILL BE FORWARDED TO THIS CONTRACTOR FOR FURTHER REVIEW AND ACTION.
4. REFER TO CIVIL DRAWINGS AND PRECISE GRADING PLANS FOR ELEVATION CALLOUTS, DRAINAGE, ETC.

**PUBLIC FIRE FLOW REQUIREMENT**

2000 GPM @ 20 PSI FOR 2 HOURS

**PROJECT INFORMATION**

**PROJECT:** APN# 3005-010-025 & 3005-010-026  
PROPOSED 1 - BUILDING DEVELOPMENT  
4,988 SQ.FT. - CHEVRON "EXTRA MILE" GAS STATION AND STORE

**BUILDING LOCATION:** APN# 3005-010-025 & 3005-010-026  
AVENUE O AND 10TH STREET WEST  
PALMDALE, CA 93550

**BUILDING USE:** BUILDING A = MARKET WITH ALCOHOL SALES  
BUILDING B = FAST FOOD RESTAURANT WITH DRIVE-THROUGH

**PURSUED ALCOHOL LICENSE:** TYPE 20

**APN:** #3005-010-025 3005-010-026

**SCOPE OF WORK:** SITE DEVELOPMENT, NEW LANDSCAPING, GRADING, NEW PAVING AND PARKING LOTS. (1) NEW GAS STATION WITH A 4,988 SF CONVENIENCE STORE THAT HAS ALCOHOL SALES, RESTROOMS, AN OFFICE, AND STORAGE. (1) NEW 5,045 SF CORE AND SHELL BUILDING FOR A RESTAURANT AND DRIVE-THROUGH ACCOMMODATIONS.

**ZONING:** VC - VISITOR COMMERCIAL

**CONSTRUCTION TYPE:** VB NON-SPRINKLER

**OCCUPANCY:** B

**SPRINKLER BUILDING:** NO

**FIRE ALARM:** NO

**NUMBER OF STORIES:** 1 STORY

**LOT AREA:** APN# 3005-010-025 & 3005-010-026 = 81,576 SQ.FT. (1.87 ACRES)

**BUILDING AREA:** 4,988 SQ.FT. = <90% LOT AREA ALLOWABLE

**LANDSCAPING:** PARKING LOT SF = 10,345 x .05 = 517.25 SF LANDSCAPING REQUIRED  
PROPOSED LANDSCAPING = 3,694 SF LANDSCAPING PROVIDED

**TOTAL BUILDING HEIGHT:** 30 FEET. (MAXIMUM HEIGHT ALLOWED 40' - ACCESSORY STRUCTURE < 17')

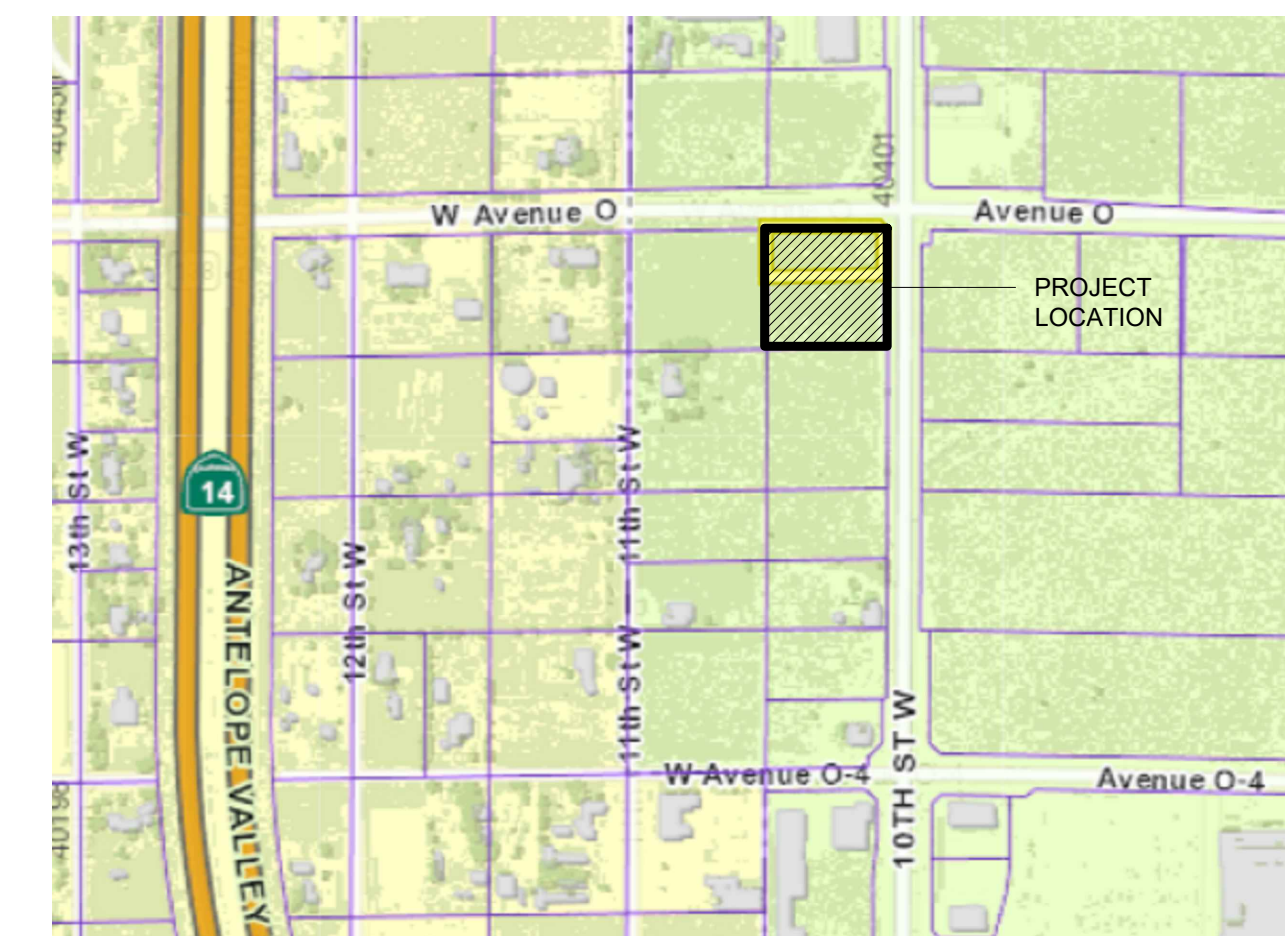
**PARKING REQUIRED:** 4 PER 1,000 SF OF CONVENIENCE MARKET (PER PMC. SECTION 17.87-030A) + 1 PARKING SPACES FOR EACH EMPLOYEE  
= 12 STALLS REQUIRED + 5 EMPLOYEE PARKING (20 PROVIDED)  
= 1 ADA SPACES (1 VAN) PER SEC 11B-208.2.4  
= 2 EV CAPABLE REQUIRED, 0 REQUIRED TO BE PROVIDED PER SECTION 5.106.5.3.1 CGBC 2022  
= 1 EV VAN ADA RQ'D TO COMPLY W/ TABLE 11B-228.3.2.1 CBC 2022

6 SPACES PER 1,000 SF OF RESTAURANT + 1 SPACE PER EMPLOYEE + 4 SPACES FOR PICK UP  
= 12 SPACES REQUIRED + 4 EMPLOYEE PARKING (23 PROVIDED)  
= 1 ADA SPACE (1 VAN) PER SEC 11B-208.2.4  
= 2 EV CAPABLE REQUIRED, 0 REQUIRED TO BE PROVIDED PER SECTION 5.106.5.3.1 CGBC 2022  
= 1 EV VAN ADA RQ'D TO COMPLY W/ TABLE 11B-228.3.2.1 CBC 2022

**BICYCLE PARKING:** 2 BICYCLE SPACES PER 50 SPACES = 2 BICYCLE SPACES REQUIRED FOR 21 STALLS.  
2 BICYCLE SPACES PROVIDED

**LOADING ZONE:** CONVENIENCE STORE = 1 REQUIRED  
RESTAURANT = 1 REQUIRED  
PROVIDED (1) 11'x30' SHARED LOADING ZONE

**KEY MAP**



**PROJECT OWNER**  
**DAVID SHAMSIAN**  
1752 WEST AVENUE K  
LANCASTER, CA 93534  
(310)279-2732

**ENGINEER OF RECORD**  
**DUKE ENGINEERING**  
44732 YUCCA AVENUE  
LANCASTER, CA  
661-952-7918

- ACCESSIBLE PATH OF TRAVEL, 1:12 MAX SLOPE & 2% MAX. CROSS SLOPE
- EV ELECTRIC VEHICLE PARKING PROVIDED
- EV FUTURE ELECTRIC VEHICLE PARKING
- PAVEMENT
- FIRE DEPARTMENT ROAD
- TRUNCATED DOMES
- ADA PATH OF TRAVEL

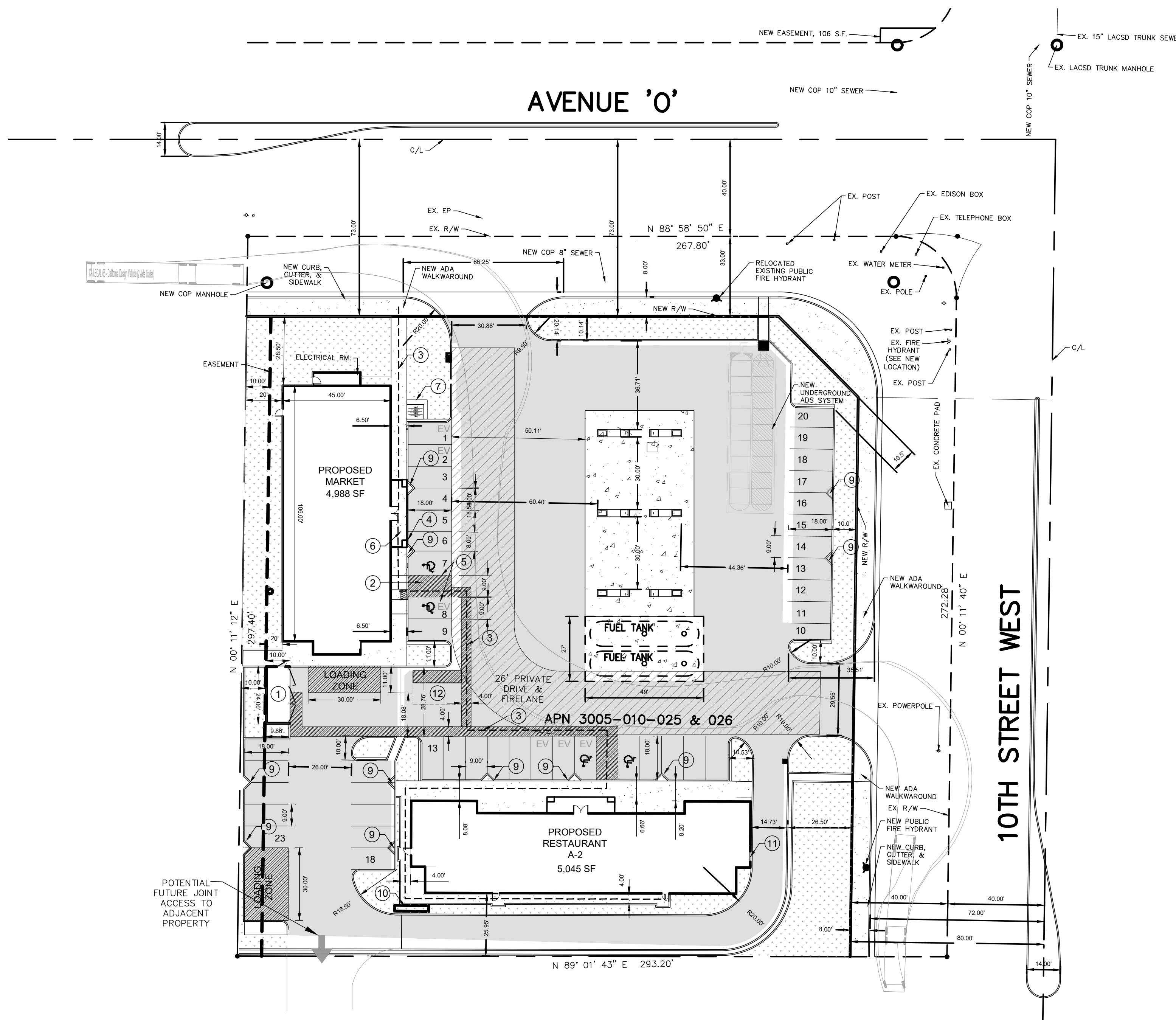
**CONSTRUCTION NOTES**

- 1 TRASH ENCLOSURE SEE DETAILS SHEET A1.01
- 2 ADA STRIPING AND SIGNAGE
- 3 ADA PATH OF TRAVEL, 1:12 MAX. SLOPE WITH 2% MAX CROSS SLOPE
- 4 ADA NOTIFICATION SIGNAGE
- 5 ADA PARKING STALL
- 6 TRUNCATED DOMES
- 7 SHORT TERM BICYCLE PARKING - 2
- 8 LOADING ZONE
- 9 PARKING DIAMOND WITH ONE CANOPY TREE
- 10 MENU / ORDERING STAND
- 11 DRIVE-THROUGH WINDOW
- 12 PASSENGER DROP OFF  
5'x20' ACCESS ISLE AND AN 8'x20' PULL-UP SPACE

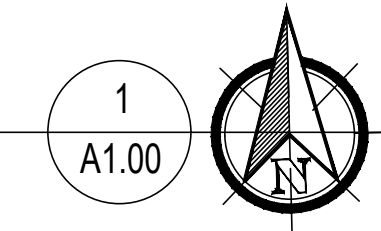
**APPLICABLE CODES**

THE PROJECT SHALL COMPLY WITH THE FOLLOWING BUILDING CODES AND CITY OF PALMDALE AMENDMENTS:

1. 2022 CALIFORNIA BUILDING CODE (CBC)
2. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC)
5. 2022 CALIFORNIA PLUMBING CODE (CPC)
6. 2022 CALIFORNIA FIRE CODE (CFC)
7. CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (CBEES)



**SITE PLAN**  
SCALE: 1" = 30'



Revisions	No.	By	Date

**PROJECT**  
**CHEVRON - SHAMSIAN**  
AVENUE O & 10TH STREET WEST  
PALMDALE, CA  
APN: 3005-010-025,026



**SHEET TITLE**  
**SITE PLAN**

**SHEET**  
**A1.00**  
Project No. 22012



**Appendix B. Photographs On and Off the Project Site (February 14, 2023)**





Representative photographs of the project site from the northeast corner looking towards the west (top) and towards the south (bottom).





Representative photographs of the project site from the southeast corner looking towards the west (top) and towards the north (bottom).





Representative photographs looking off the project site. Top photograph looking towards the north. Bottom photograph looking towards the south.





Representative photographs looking off the project site. Top photograph looking towards the northeast. Bottom photograph looking towards the east.

## **Appendix C Biological Resource Assessment**



April 19, 2022

Mr. David Shamsian  
1752 W Ave. "K"  
Lancaster, CA 93534

**RE: BIOLOGICAL PRECONSTRUCTION SURVEY REPORT FOR A PROPOSED CHEVRON EXTRA MILE GAS STATION AND ASSOCIATED FACILITIES, IN PALMDALE, LOS ANGELES COUNTY, CA**

Dear Mr. Shamsian:

## **INTRODUCTION**

At your request, a biological preconstruction survey was conducted on April 14, 2022, on approximately 2.5 acres and buffer zones at the southwest corner of 10<sup>th</sup> Street W and West Avenue O, Palmdale, Los Angeles County, CA. The proposed project includes the construction of gas loading areas, underground gas storage tanks, parking areas, a proposed market and an area for a future phase. The site plan is shown on Figure 1.

Land uses in the surrounding area include scattered residential and commercial development in all directions. There is open rangeland mostly to the east with Lucky Luke Brewing and Henry's Hardware and Supply to the north. A residence is located southwest of the proposed station. The site is almost level, sloping very slightly to the east and south.

The site appears highly disturbed, with bulldozer tracks, off-road vehicle trails, including motorcycles, and dumping of soil, trash, and other debris. The vegetation alongside 10<sup>th</sup> Street West on the east side of the parcels and a smaller portion of area along the east end of West Avenue O adjacent to the parcels has been bladed off for the most part, as can be seen on Google Earth aerial photographs.

## **METHODS**

On April 14, 2022, Marcia Wolfe, a certified Senior Ecologist of the Ecological Society of America and a field technician, Phillip King, conducted pedestrian biological transects across and around the property, assessing the site condition and looking for evidence of any listed wildlife or plant species of concern, including the burrowing owl. The use of meandering pedestrian transects helps to ensure 100 percent coverage of the project site. The survey included a variable width buffer zone beyond the boundaries of the project site where possible. For safety and legal reasons, paved roads and private properties were not surveyed by conducting transects; however, binoculars were used to survey those areas from a safe distance. Presence of wildlife, particularly sensitive species, or their sign was recorded. Field notes were used to record habitat features and wildlife activities during the survey. A photographic record was made of specific site features and wildlife evidence.



## **METHODS (continued)**

Using the California Natural Diversity Database (2021), a search of the proposed project area for sensitive species was conducted for the USGS Ritter Ridge USGS (Appendix A). As recommended, a 9-quadrangle map search also was conducted (Appendix B). The search revealed documentation of four threatened species, 13 species of concern, and four species on the Watch List. The four threatened species include Swainson's hawk, tricolored blackbird, Mohave ground squirrel and the western Joshua tree, being proposed candidate threatened species by both federal and state law.

Species of special concern documented in the area by the CNDDDB (2022) include *Vaux's swift* (*Chaetura vaux*), *the tricolored blackbird* (*Agelaius tricolor*), *yellow breasted chat* (*Icteria virens*), *loggerhead shrike* (*Lanius ludovicianus*), *LeConte's thrasher* (*Toxostoma lecontei*), *burrowing owl* (*Athene cunicularia*), *American badger* (*Taxidea taxus*), *northern California legless lizard* (*Anniella pulchra*), *California glossy snake* (*Arizona elegans occidentalis*), *western pond turtle* (*Emys marmorata*), *two striped garter snake* (*Thamnophis hammondi*), *coast-horned lizard* (*Phrynosoma blainvillii*) and the *coastal whiptail, a lizard*, (*Aspidocelis tigris stejnegeri*).

## **RESULTS**

The project area is on the southwest corner of the intersection of West Avenue O and 10<sup>th</sup> Street West. The soils were observed to be sandy with small rough rocks scattered throughout. The landscape is generally flat with a very gently sloping grade to the east and south. The site ranges in elevations around +/-2635 feet (NRCS 1926).

The location is extremely disturbed, having had soil moved by heavy equipment in scattered areas throughout the project area. An extensive area west and adjacent to 10<sup>th</sup> Street West has been bladed almost void of vegetation as evidenced on Google Earth aerial photographs. Evidence of offroad driving also was present with numerous foot, motorcycle and truck trails imprinted in the soil across the entire site.

The proposed roads, buildings, and parking lots of this project would be developed on and adjacent to already highly disturbed and undeveloped areas (Figure 2). Due to the level of disturbance throughout the property, there are areas that have little vegetation, and the soil has become compacted, especially where the vegetation has been removed.

The eastern portion of the project is directly adjacent to disturbed shoulder of 10<sup>th</sup> Street West. West Avenue O forms the northern boundary of the property, while the western side is adjacent to vacant land with a large California poppy population. The south side of the project is along another vacant undeveloped parcels. To the southwest is a residence. Other than horticultural plants that are in the commercial areas surrounding the vacant lots, there are not very many places for birds to roost, except on the ground, in small shrubs, nearby residential fencing and horticultural trees and the small shrubs on the project site. Although no nests were encountered on the project site,



## RESULTS (continued)

in this habitat birds more than likely nest on the ground or under the small shrubs as we have observed elsewhere in the desert.

California ground squirrel (*Otospermophilus beecheyi*) were observed running off the southern portion of the property east of the adjacent residence. A few ground squirrel burrows were also observed throughout the site. There was extensive trash along the northern and east sides of the project area in addition to scattered trash throughout the acreage.

Lists of plants and wildlife identified on the project site during the survey are included in Appendices B and C, respectively. No threatened or endangered plant or wildlife species were encountered on the project site.

Only a few mammal species or their sign were observed during the survey. However, evidence of the California ground squirrel was scattered throughout the project area except for the most disturbed areas void of vegetation. A number of small mammal burrows, probably the white-footed deer mouse (*Peromyscus maniculatus*), were sparsely scattered in a few areas.

Very few birds were documented to be present during the survey, perhaps because of the large red-tailed hawk (*Buteo jamaicensis*) hunting over the project site during the time of the survey. The most common bird observed or heard during the field survey was the Common raven (*Corvus corax*). No sign of listed and/or any other special status wildlife species, such as the burrowing owl, including their burrows or pellets, whitewash, feathers, tracks, or prey remains, were observed on the project site. However, this project does occur within the known range of it and other sensitive wildlife species, which could potentially move onto the project site

Plant species observed were mostly non-native annuals, a few shrubs and invasive species. The most dominant non-native plant species observed include Russian thistle (*Salsola tragus*), filaree (*Erodium cicutarium*), tumble mustard (*Sisymbrium altissimum*), red brome (*Bromus madritensis ssp. rubens*) and cheatgrass (*Bromus tectorum*). Rattlesnake sandmat (*Euphorbia albomarginata*) and turkey mullein (*Croton setigerus*) are common native plant species observed. No suitable habitats for listed and/or other special status plant species were observed on the project area. A few native shrubs were observed in small, less disturbed areas scattered around the site.

## CONCLUSIONS

The western burrowing owl, as well as other bird species, are highly mobile. Some are migratory and have been known to inhabit previously disturbed areas, such as culverts, open pipe and piles of wood. The burrowing owl, and other raptor species including the northern harrier, the golden eagle, and the prairie falcon, as well as the federally protected desert tortoise and the state

## CONCLUSIONS (continued)

threatened Mohave ground squirrel or Nelson's antelope ground squirrel (*Ammospermophilus nelsoni*) could range onto the project area as they are known in the adjacent regions. New nests, dens, or burrows could be constructed or excavated at any time. Dens or burrows have been known to be dug overnight in the middle of ongoing construction or even on developed sites. projects. The burrowing owl has also been known to inhabit open piping, culverts, and loose piles of concrete or other construction materials, rubble or debris. Any wildlife may also hide, sleep, or rest among machinery, equipment, buildings, parked trailers, or vehicles and among stockpiled materials during construction and/or operations.

Although documented for the region by the CNDDDB, no evidence of the Mohave ground squirrel was encountered. Should a Mohave ground squirrel, Nelson's antelope ground squirrel, or any other sensitive species be spotted on the site during construction, to ensure regulatory compliance, they must be avoided. Construction activities that could harm them must be stopped, and a qualified biologist contacted immediately to determine the proper course of action. Harassment of listed species, including yelling or chasing, is prohibited and unlawful. Take of a listed species may result in regulatory action and a fine since this project has no wildlife agency permit.

Several species of birds, such as the mourning dove, and others, which are protected by the federal Migratory Bird Treaty Act (MBTA), prefer to nest in barren open ground or small shrubs. Although none were observed during the survey, mourning dove are common in this type of habitat. If any bird nests, eggs or young are encountered during the project, they will be avoided by a minimum 100-foot radius buffer zone, and a qualified biologist contacted to determine the course of action.

An employee environmental training session shall be conducted to inform employees of the species which may occur on the site, what they look like, and the take avoidance measures, particularly pertaining to the appearance of potential burrows in the work area, observation of listed species, 15 mph speed limit, keeping open pipes or cavities covered or fenced off from wildlife access, and containment and removal of human food related trash. Any new employees arriving on site throughout the duration of the project also shall receive environmental training before commencing work.

To prevent accidental take of any protected wildlife species, standard agency take avoidance measures and protection measures are required to be implemented. The requirement to comply with environmental laws, regulations and their related guidelines and polices shall be included in the contract of each contractor. A summary of the take avoidance measures to be implemented to help prevent take include, but are not limited to the following:

- Training of contractors and employees regarding the possible species of concern which may occur on the site and the take avoidance and protection measures to be immediately implemented if one is observed;
- Inspecting trenches and excavations to prevent entrapment of wildlife species;

**CONCLUSIONS (continued)**

- Providing ramps or coverings of all excavations to help prevent entrapment;
- Covering of openings such as found on pipes, poles and vaults to prevent entrapment. If wildlife are encountered inside pipes, contact a qualified biologist to ascertain the course of action. Harassment of protected species is prohibited by both federal and state laws.
- Keeping garbage and food stuffs contained and removed daily from the project site;
- Keeping vehicles and equipment on surveyed areas on the project site only;
- Inspecting inside and underneath vehicles, equipment and materials prior to moving them;
- If any protected species are found, all work which may harm it must stop immediately and a qualified wildlife biologist be contacted; and,
- Using slow speed limits of 15-20 mph or less; and avoiding night work.

If you have any questions or need further assistance, please do not hesitate to contact us.

Sincerely,



Marcia H. Wolfe  
Certified Senior Ecologist, Ecological Society of America  
MH Wolfe and Associates Environmental Consulting, Inc.

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## FIGURES

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Figure 2. Showing site condition with piles of dirt reinvaded with annual grasses trash, bare soil and bladed areas adjacent to streets.



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## APPENDICES

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APPENDIX A. CNDDDB search results for Ritter Ridge USGS quadrangle map.



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CNDDDB Quad Species List 33 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Birds	<i>Aquila chrysaetos</i>	golden eagle	ABNKC22010	None	None	FP WL	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Accipitridae - <i>Aquila chrysaetos</i>
Animals - Birds	<i>Buteo regalis</i>	ferruginous hawk	ABNKC19120	None	None	WL	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Buteo regalis</i>
Animals - Birds	<i>Buteo swainsoni</i>	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Accipitridae - <i>Buteo swainsoni</i>
Animals - Birds	<i>Chaetura vauxi</i>	Vaux's swift	ABNUA03020	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Apodidae - <i>Chaetura vauxi</i>
Animals - Birds	<i>Ardea alba</i>	great egret	ABNGA04040	None	None	-	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Ardeidae - <i>Ardea alba</i>
Animals - Birds	<i>Falco mexicanus</i>	prairie falcon	ABNKD06090	None	None	WL	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Falconidae - <i>Falco mexicanus</i>
Animals - Birds	<i>Agelaius tricolor</i>	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Icteridae - <i>Agelaius tricolor</i>
Animals - Birds	<i>Icteria virens</i>	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Icteridae - <i>Icteria virens</i>
Animals - Birds	<i>Lanius ludovicianus</i>	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Laniidae - <i>Lanius ludovicianus</i>
Animals - Birds	<i>Toxostoma lecontei</i>	Le Conte's thrasher	ABPBK06100	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Mimidae - <i>Toxostoma lecontei</i>
Animals - Birds	<i>Aimophila ruficeps canescens</i>	southern California rufous-crowned sparrow	ABPBX91091	None	None	WL	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Passerellidae - <i>Aimophila ruficeps canescens</i>
Animals - Birds	<i>Artemisiospiza belli belli</i>	Bell's sage sparrow	ABPBX97021	None	None	WL	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Passerellidae - <i>Artemisiospiza belli belli</i>
Animals - Birds	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Strigidae - <i>Athene cunicularia</i>
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Mammals	<i>Perognathus inornatus</i>	San Joaquin pocket mouse	AMAFD01060	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mammals - Heteromyidae - <i>Perognathus inornatus</i>
Animals - Mammals	<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	AMAEB03051	None	None	-	-	3411852	RITTER RIDGE	Unprocessed	Animals - Mammals - Leporidae - <i>Lepus californicus bennettii</i>
Animals - Mammals	<i>Taxidea taxus</i>	American badger	AMAJF04010	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Mammals - Mustelidae - <i>Taxidea taxus</i>
Animals - Mammals	<i>Xerospermophilus mohavensis</i>	Mohave ground squirrel	AMAFB05150	None	Threatened	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mammals - Sciuridae - <i>Xerospermophilus mohavensis</i>

Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Arizona elegans occidentalis	California glossy snake	ARADB01017	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Reptiles - Colubridae - Arizona elegans occidentalis
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis hammondi	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondi
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Perideridia pringlei	adobe yampah	PDAP11N0D0	None	None	-	4.3	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Apiaceae - Perideridia pringlei
Plants - Vascular	Opuntia basilaris var. brachyclada	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411852	RITTER RIDGE	Mapped	Plants - Vascular - Cactaceae - Opuntia basilaris var. brachyclada
Plants - Vascular	Calystegia peirsonii	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Convolvulaceae - Calystegia peirsonii
Plants - Vascular	Astragalus hornii var. hornii	Horn's milk-vetch	PDFAB0F421	None	None	-	1B.1	3411852	RITTER RIDGE	Mapped	Plants - Vascular - Fabaceae - Astragalus hornii var. hornii
Plants - Vascular	Canbya candida	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Papaveraceae - Canbya candida
Plants - Vascular	Goodmania luteola	golden goodmania	PDPGN0B010	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Polygonaceae - Goodmania luteola
Plants - Vascular	Androsace elongata ssp. acuta	California androsace	PDPRI02031	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Primulaceae - Androsace elongata ssp. acuta

Appendix B. 9 quad map CNDDDB search results.

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**CNDDDB 9-Quad Species List 324 records.**

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Anaxyrus californicus	arroyo toad	AAABB01230	Endangered	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Animals - Amphibians - Bufonidae - Anaxyrus californicus
Animals - Amphibians	Anaxyrus californicus	arroyo toad	AAABB01230	Endangered	None	SSC	-	3411843	AGUA DULCE	Mapped	Animals - Amphibians - Bufonidae - Anaxyrus californicus
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3411843	AGUA DULCE	Unprocessed	Animals - Amphibians - Ranidae - Rana draytonii
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3411842	ACTON	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana draytonii
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Amphibians - Ranidae - Rana draytonii
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Amphibians - Ranidae - Rana draytonii
Animals - Amphibians	Rana muscosa	southern mountain yellow-legged frog	AAABH01330	Endangered	Endangered	WL	-	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana muscosa
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3411842	ACTON	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3411861	LANCASTER EAST	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3411851	PALMDALE	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter striatus	sharp-shinned hawk	ABNKC12020	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Accipitridae - Accipiter striatus
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP WL	-	3411842	ACTON	Mapped and Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP WL	-	3411853	SLEEPY VALLEY	Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP WL	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3411863	DEL SUR	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3411861	LANCASTER EAST	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3411862	LANCASTER WEST	Mapped	Animals - Birds - Accipitridae - Buteo regalis



Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411861	LANCASTER EAST	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411863	DEL SUR	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411862	LANCASTER WEST	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411851	PALMDALE	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Circus hudsonius	northern harrier	ABNKC11011	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Accipitridae - Circus hudsonius
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Eremophila alpestris actia	California horned lark	ABPAT02011	None	None	WL	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Alaudidae - Eremophila alpestris actia
Animals - Birds	Eremophila alpestris actia	California horned lark	ABPAT02011	None	None	WL	-	3411862	LANCASTER WEST	Unprocessed	Animals - Birds - Alaudidae - Eremophila alpestris actia
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3411862	LANCASTER WEST	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Piranga rubra	summer tanager	ABPBX45030	None	None	SSC	-	3411851	PALMDALE	Unprocessed	Animals - Birds - Cardinalidae - Piranga rubra
Animals - Birds	Piranga rubra	summer tanager	ABPBX45030	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Cardinalidae - Piranga rubra
Animals - Birds	Piranga rubra	summer tanager	ABPBX45030	None	None	SSC	-	3411843	AGUA DULCE	Unprocessed	Animals - Birds - Cardinalidae - Piranga rubra
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3411861	LANCASTER EAST	Mapped and Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3411863	DEL SUR	Mapped	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	3411851	PALMDALE	Mapped	Animals - Birds - Charadriidae - Charadrius montanus

Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3411862	LANCASTER WEST	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3411842	ACTON	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	3411842	ACTON	Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Spinus lawrencei	Lawrence's goldfinch	ABPBY06100	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Fringillidae - Spinus lawrencei
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411851	PALMDALE	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411863	DEL SUR	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Threatened	SSC	-	3411862	LANCASTER WEST	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Icteridae - Icteria virens
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Birds - Icteridae - Icteria virens
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411851	PALMDALE	Mapped and Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411853	SLEEPY VALLEY	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411862	LANCASTER WEST	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411861	LANCASTER EAST	Mapped	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Hydroprogne caspia	Caspian tern	ABNNM08020	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Laridae - Hydroprogne caspia



Animals - Birds	Toxostoma lecontei	Le Conte's thrasher	ABPBK06100	None	None	SSC	-	3411851	PALMDALE	Mapped and Unprocessed	Animals - Birds - Mimidae - Toxostoma lecontei
Animals - Birds	Toxostoma lecontei	Le Conte's thrasher	ABPBK06100	None	None	SSC	-	3411861	LANCASTER EAST	Unprocessed	Animals - Birds - Mimidae - Toxostoma lecontei
Animals - Birds	Toxostoma lecontei	Le Conte's thrasher	ABPBK06100	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Birds - Mimidae - Toxostoma lecontei
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Setophaga petechia	yellow warbler	ABPBX03010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Parulidae - Setophaga petechia
Animals - Birds	Setophaga petechia	yellow warbler	ABPBX03010	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Birds - Parulidae - Setophaga petechia
Animals - Birds	Aimophila ruficeps canescens	southern California rufous-crowned sparrow	ABPBX91091	None	None	WL	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Birds - Passerellidae - Aimophila ruficeps canescens
Animals - Birds	Aimophila ruficeps canescens	southern California rufous-crowned sparrow	ABPBX91091	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Passerellidae - Aimophila ruficeps canescens
Animals - Birds	Aimophila ruficeps canescens	southern California rufous-crowned sparrow	ABPBX91091	None	None	WL	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Passerellidae - Aimophila ruficeps canescens
Animals - Birds	Aimophila ruficeps canescens	southern California rufous-crowned sparrow	ABPBX91091	None	None	WL	-	3411853	SLEEPY VALLEY	Mapped	Animals - Birds - Passerellidae - Aimophila ruficeps canescens
Animals - Birds	Artemisospiza belli belli	Bell's sage sparrow	ABPBX97021	None	None	WL	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Passerellidae - Artemisospiza belli belli
Animals - Birds	Artemisospiza belli belli	Bell's sage sparrow	ABPBX97021	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Passerellidae - Artemisospiza belli belli
Animals - Birds	Artemisospiza belli belli	Bell's sage sparrow	ABPBX97021	None	None	WL	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Birds - Passerellidae - Artemisospiza belli belli
Animals - Birds	Artemisospiza belli belli	Bell's sage sparrow	ABPBX97021	None	None	WL	-	3411842	ACTON	Unprocessed	Animals - Birds - Passerellidae - Artemisospiza belli belli
Animals - Birds	Passerculus sandwichensis beldingi	Belding's savannah sparrow	ABPBX99015	None	Endangered	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Passerellidae - Passerculus sandwichensis beldingi
Animals - Birds	Pelecanus erythrorhynchos	American white pelican	ABNFC01010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Pelecanidae - Pelecanus erythrorhynchos
Animals - Birds	Nannopterum auritum	double-crested cormorant	ABNFD01020	None	None	WL	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Phalacrocoracidae - Nannopterum auritum
Animals - Birds	Sphyrapicus ruber	red-breasted sapsucker	ABNYF05020	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Picidae - Sphyrapicus ruber
Animals - Birds	Polioptila californica californica	coastal California gnatcatcher	ABPBJ08081	Threatened	None	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Birds - Polioptilidae - Polioptila californica californica
Animals - Birds	Polioptila californica californica	coastal California gnatcatcher	ABPBJ08081	Threatened	None	SSC	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Birds - Polioptilidae - Polioptila californica californica
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Birds - Strigidae - Athene cunicularia

Animals - Birds	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	None	None	SSC	-	3411862	LANCASTER WEST	Mapped and Unprocessed	Animals - Birds - Strigidae - <i>Athene cunicularia</i>
Animals - Birds	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	None	None	SSC	-	3411861	LANCASTER EAST	Mapped	Animals - Birds - Strigidae - <i>Athene cunicularia</i>
Animals - Birds	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	None	None	SSC	-	3411851	PALMDALE	Mapped and Unprocessed	Animals - Birds - Strigidae - <i>Athene cunicularia</i>
Animals - Birds	<i>Athene cunicularia</i>	burrowing owl	ABNSB10010	None	None	SSC	-	3411863	DEL SUR	Mapped and Unprocessed	Animals - Birds - Strigidae - <i>Athene cunicularia</i>
Animals - Birds	<i>Strix occidentalis occidentalis</i>	California Spotted Owl	ABNSB12013	None	None	SSC	-	3411842	ACTON	Mapped	Animals - Birds - Strigidae - <i>Strix occidentalis occidentalis</i>
Animals - Birds	<i>Strix occidentalis occidentalis</i>	California Spotted Owl	ABNSB12013	None	None	SSC	-	3411843	AGUA DULCE	Mapped	Animals - Birds - Strigidae - <i>Strix occidentalis occidentalis</i>
Animals - Birds	<i>Calypte costae</i>	Costa's hummingbird	ABNUC47020	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Trochilidae - <i>Calypte costae</i>
Animals - Birds	<i>Calypte costae</i>	Costa's hummingbird	ABNUC47020	None	None	-	-	3411843	AGUA DULCE	Unprocessed	Animals - Birds - Trochilidae - <i>Calypte costae</i>
Animals - Birds	<i>Selasphorus rufus</i>	rufous hummingbird	ABNUC51020	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Trochilidae - <i>Selasphorus rufus</i>
Animals - Birds	<i>Empidonax traillii</i>	willow flycatcher	ABPAE33040	None	Endangered	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Tyrannidae - <i>Empidonax traillii</i>
Animals - Birds	<i>Empidonax traillii</i>	willow flycatcher	ABPAE33040	None	Endangered	-	-	3411863	DEL SUR	Unprocessed	Animals - Birds - Tyrannidae - <i>Empidonax traillii</i>
Animals - Birds	<i>Empidonax traillii extimus</i>	southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	-	-	3411843	AGUA DULCE	Mapped	Animals - Birds - Tyrannidae - <i>Empidonax traillii extimus</i>
Animals - Birds	<i>Vireo bellii pusillus</i>	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Birds - Vireonidae - <i>Vireo bellii pusillus</i>
Animals - Birds	<i>Vireo bellii pusillus</i>	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3411862	LANCASTER WEST	Mapped	Animals - Birds - Vireonidae - <i>Vireo bellii pusillus</i>
Animals - Birds	<i>Vireo bellii pusillus</i>	least Bell's vireo	ABPBW01114	Endangered	Endangered	-	-	3411851	PALMDALE	Mapped	Animals - Birds - Vireonidae - <i>Vireo bellii pusillus</i>
Animals - Crustaceans	<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3411863	DEL SUR	Mapped	Animals - Crustaceans - Branchinectidae - <i>Branchinecta lynchi</i>
Animals - Fish	<i>Catostomus santaanae</i>	Santa Ana sucker	AFCJC02190	Threatened	None	-	-	3411842	ACTON	Mapped	Animals - Fish - Catostomidae - <i>Catostomus santaanae</i>
Animals - Fish	<i>Catostomus santaanae</i>	Santa Ana sucker	AFCJC02190	Threatened	None	-	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Fish - Catostomidae - <i>Catostomus santaanae</i>
Animals - Fish	<i>Gila orcuttii</i>	arroyo chub	AFCJB13120	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Fish - Cyprinidae - <i>Gila orcuttii</i>
Animals - Fish	<i>Gila orcuttii</i>	arroyo chub	AFCJB13120	None	None	SSC	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Fish - Cyprinidae - <i>Gila orcuttii</i>
Animals - Fish	<i>Gila orcuttii</i>	arroyo chub	AFCJB13120	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Fish - Cyprinidae - <i>Gila orcuttii</i>
Animals - Fish	<i>Gasterosteus aculeatus microcephalus</i>	resident threespine stickleback	AFCPA03015	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Fish - Gasterosteidae - <i>Gasterosteus aculeatus microcephalus</i>

Animals - Fish	<i>Gasterosteus aculeatus williamsoni</i>	unarmored threespine stickleback	AFCPA03011	Endangered	Endangered	FP	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Fish - Gasterosteidae - <i>Gasterosteus aculeatus williamsoni</i>
Animals - Fish	<i>Gasterosteus aculeatus williamsoni</i>	unarmored threespine stickleback	AFCPA03011	Endangered	Endangered	FP	-	3411842	ACTON	Mapped and Unprocessed	Animals - Fish - Gasterosteidae - <i>Gasterosteus aculeatus williamsoni</i>
Animals - Fish	<i>Gasterosteus aculeatus williamsoni</i>	unarmored threespine stickleback	AFCPA03011	Endangered	Endangered	FP	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Fish - Gasterosteidae - <i>Gasterosteus aculeatus williamsoni</i>
Animals - Fish	<i>Oncorhynchus mykiss irideus</i> pop. 10	steelhead - southern California DPS	AFCOA0209J	Endangered	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Fish - Salmonidae - <i>Oncorhynchus mykiss irideus</i> pop. 10
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411842	ACTON	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411862	LANCASTER WEST	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411851	PALMDALE	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Insects	<i>Bombus crotchii</i>	Crotch bumble bee	IIHYM24480	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Insects - Apidae - <i>Bombus crotchii</i>
Animals - Insects	<i>Euphydryas editha quino</i>	quino checkerspot butterfly	IILEPK405L	Endangered	None	-	-	3411853	SLEEPY VALLEY	Mapped	Animals - Insects - Nymphalidae - <i>Euphydryas editha quino</i>
Animals - Insects	<i>Euphydryas editha quino</i>	quino checkerspot butterfly	IILEPK405L	Endangered	None	-	-	3411843	AGUA DULCE	Mapped	Animals - Insects - Nymphalidae - <i>Euphydryas editha quino</i>
Animals - Mammals	<i>Antilocapra americana</i>	pronghorn	AMALD01010	None	None	-	-	3411863	DEL SUR	Unprocessed	Animals - Mammals - Antilocapridae - <i>Antilocapra americana</i>
Animals - Mammals	<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	AMAFF08041	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Cricetidae - <i>Neotoma lepida intermedia</i>
Animals - Mammals	<i>Onychomys torridus ramona</i>	southern grasshopper mouse	AMAFF06022	None	None	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Mammals - Cricetidae - <i>Onychomys torridus ramona</i>
Animals - Mammals	<i>Onychomys torridus ramona</i>	southern grasshopper mouse	AMAFF06022	None	None	SSC	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Mammals - Cricetidae - <i>Onychomys torridus ramona</i>
Animals - Mammals	<i>Lynx rufus pallescens</i>	pallid bobcat	AMAJH03022	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Felidae - <i>Lynx rufus pallescens</i>
Animals - Mammals	<i>Perognathus inornatus</i>	San Joaquin pocket mouse	AMAFD01060	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mammals - Heteromyidae - <i>Perognathus inornatus</i>
Animals - Mammals	<i>Perognathus inornatus</i>	San Joaquin pocket mouse	AMAFD01060	None	None	-	-	3411851	PALMDALE	Mapped	Animals - Mammals - Heteromyidae - <i>Perognathus inornatus</i>
Animals - Mammals	<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	AMAEB03051	None	None	-	-	3411852	RITTER RIDGE	Unprocessed	Animals - Mammals - Leporidae - <i>Lepus californicus bennettii</i>
Animals - Mammals	<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	AMAEB03051	None	None	-	-	3411843	AGUA DULCE	Unprocessed	Animals - Mammals - Leporidae - <i>Lepus californicus bennettii</i>

Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3411863	DEL SUR	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Ammospermophilus nelsoni	Nelson's (=San Joaquin) antelope squirrel	AMAFB04040	None	Threatened	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Scuriidae - Ammospermophilus nelsoni
Animals - Mammals	Xerospermophilus mohavensis	Mohave ground squirrel	AMAFB05150	None	Threatened	-	-	3411862	LANCASTER WEST	Mapped	Animals - Mammals - Scuriidae - Xerospermophilus mohavensis
Animals - Mammals	Xerospermophilus mohavensis	Mohave ground squirrel	AMAFB05150	None	Threatened	-	-	3411861	LANCASTER EAST	Mapped and Unprocessed	Animals - Mammals - Scuriidae - Xerospermophilus mohavensis
Animals - Mammals	Xerospermophilus mohavensis	Mohave ground squirrel	AMAFB05150	None	Threatened	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mammals - Scuriidae - Xerospermophilus mohavensis
Animals - Mammals	Xerospermophilus mohavensis	Mohave ground squirrel	AMAFB05150	None	Threatened	-	-	3411851	PALMDALE	Mapped and Unprocessed	Animals - Mammals - Scuriidae - Xerospermophilus mohavensis
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3411842	ACTON	Mapped	Animals - Mammals - Vespertilionidae - Antrozous pallidus
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Vespertilionidae - Antrozous pallidus
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	None	SSC	-	3411842	ACTON	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	None	SSC	-	3411843	AGUA DULCE	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Myotis ciliolabrum	western small-footed myotis	AMACC01140	None	None	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis ciliolabrum
Animals - Mammals	Myotis velifer	cave myotis	AMACC01050	None	None	SSC	-	3411862	LANCASTER WEST	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis velifer
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411842	ACTON	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411862	LANCASTER WEST	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411861	LANCASTER EAST	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411851	PALMDALE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila



Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411852	RITTER RIDGE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411853	SLEEPY VALLEY	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta fontiphila	Soledad shoulderband	IMGASC2250	None	None	-	-	3411843	AGUA DULCE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta fontiphila
Animals - Mollusks	Helminthoglypta traskii pacuimensis	Pacoima shoulderband	IMGASC2472	None	None	-	-	3411843	AGUA DULCE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta traskii pacuimensis
Animals - Mollusks	Helminthoglypta traskii pacuimensis	Pacoima shoulderband	IMGASC2472	None	None	-	-	3411842	ACTON	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta traskii pacuimensis
Animals - Mollusks	Helminthoglypta vasquezi	Vasquez shoulderband	IMGASC2660	None	None	-	-	3411843	AGUA DULCE	Mapped	Animals - Mollusks - Helminthoglyptidae - Helminthoglypta vasquezi
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411851	PALMDALE	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411861	LANCASTER EAST	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411862	LANCASTER WEST	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella pulchra	Northern California legless lizard	ARACC01020	None	None	SSC	-	3411863	DEL SUR	Mapped	Animals - Reptiles - Anniellidae - Anniella pulchra
Animals - Reptiles	Anniella spp.	California legless lizard	ARACC01070	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped	Animals - Reptiles - Anniellidae - Anniella spp.
Animals - Reptiles	Anniella spp.	California legless lizard	ARACC01070	None	None	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Reptiles - Anniellidae - Anniella spp.
Animals - Reptiles	Anniella spp.	California legless lizard	ARACC01070	None	None	SSC	-	3411842	ACTON	Mapped	Animals - Reptiles - Anniellidae - Anniella spp.
Animals - Reptiles	Anniella spp.	California legless lizard	ARACC01070	None	None	SSC	-	3411843	AGUA DULCE	Mapped	Animals - Reptiles - Anniellidae - Anniella spp.
Animals - Reptiles	Arizona elegans occidentalis	California glossy snake	ARADB01017	None	None	SSC	-	3411842	ACTON	Mapped	Animals - Reptiles - Colubridae - Arizona elegans occidentalis
Animals - Reptiles	Arizona elegans occidentalis	California glossy snake	ARADB01017	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped	Animals - Reptiles - Colubridae - Arizona elegans occidentalis
Animals - Reptiles	Arizona elegans occidentalis	California glossy snake	ARADB01017	None	None	SSC	-	3411851	PALMDALE	Mapped	Animals - Reptiles - Colubridae - Arizona elegans occidentalis
Animals - Reptiles	Arizona elegans occidentalis	California glossy snake	ARADB01017	None	None	SSC	-	3411852	RITTER RIDGE	Mapped	Animals - Reptiles - Colubridae - Arizona elegans occidentalis



Animals - Reptiles	Salvadora hexalepis virgultea	coast patch-nosed snake	ARADB30033	None	None	SSC	-	3411851	PALMDALE	Unprocessed	Animals - Reptiles - Colubridae - Salvadora hexalepis virgultea
Animals - Reptiles	Salvadora hexalepis virgultea	coast patch-nosed snake	ARADB30033	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Reptiles - Colubridae - Salvadora hexalepis virgultea
Animals - Reptiles	Salvadora hexalepis virgultea	coast patch-nosed snake	ARADB30033	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Reptiles - Colubridae - Salvadora hexalepis virgultea
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411853	SLEEPY VALLEY	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3411843	AGUA DULCE	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis hammondii	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondii
Animals - Reptiles	Thamnophis hammondii	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411853	SLEEPY VALLEY	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondii
Animals - Reptiles	Thamnophis hammondii	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondii
Animals - Reptiles	Thamnophis hammondii	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondii
Animals - Reptiles	Thamnophis hammondii	two-striped gartersnake	ARADB36160	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Reptiles - Natricidae - Thamnophis hammondii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411842	ACTON	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411853	SLEEPY VALLEY	Mapped	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411852	RITTER RIDGE	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411851	PALMDALE	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411863	DEL SUR	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411862	LANCASTER WEST	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411861	LANCASTER EAST	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii

Animals - Reptiles	Phrynosoma blainvillii	coast horned lizard	ARACF12100	None	None	SSC	-	3411843	AGUA DULCE	Mapped and Unprocessed	Animals - Reptiles - Phrynosomatidae - Phrynosoma blainvillii
Animals - Reptiles	Uma scoparia	Mojave fringe-toed lizard	ARACF15030	None	None	SSC	-	3411851	PALMDALE	Unprocessed	Animals - Reptiles - Phrynosomatidae - Uma scoparia
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411851	PALMDALE	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411852	RITTER RIDGE	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411842	ACTON	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Animals - Reptiles	Aspidoscelis tigris stejnegeri	coastal whiptail	ARACJ02143	None	None	SSC	-	3411843	AGUA DULCE	Unprocessed	Animals - Reptiles - Teiidae - Aspidoscelis tigris stejnegeri
Community - Aquatic	Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream	CARE2320CA	None	None	-	-	3411843	AGUA DULCE	Mapped	Community - Aquatic - Southern California Threespine Stickleback Stream
Community - Aquatic	Southern California Threespine Stickleback Stream	Southern California Threespine Stickleback Stream	CARE2320CA	None	None	-	-	3411842	ACTON	Mapped	Community - Aquatic - Southern California Threespine Stickleback Stream
Community - Terrestrial	Mojave Riparian Forest	Mojave Riparian Forest	CTT61700CA	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped	Community - Terrestrial - Mojave Riparian Forest
Community - Terrestrial	Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	CTT32720CA	None	None	-	-	3411843	AGUA DULCE	Mapped	Community - Terrestrial - Riversidian Alluvial Fan Sage Scrub
Community - Terrestrial	Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	-	-	3411853	SLEEPY VALLEY	Mapped	Community - Terrestrial - Southern Coast Live Oak Riparian Forest
Community - Terrestrial	Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	-	-	3411853	SLEEPY VALLEY	Mapped	Community - Terrestrial - Southern Cottonwood Willow Riparian Forest
Community - Terrestrial	Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped	Community - Terrestrial - Southern Cottonwood Willow Riparian Forest
Community - Terrestrial	Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	-	-	3411842	ACTON	Mapped	Community - Terrestrial - Southern Cottonwood Willow Riparian Forest
Community - Terrestrial	Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	-	-	3411843	AGUA DULCE	Mapped	Community - Terrestrial - Southern Cottonwood Willow Riparian Forest
Community - Terrestrial	Southern Riparian Scrub	Southern Riparian Scrub	CTT63300CA	None	None	-	-	3411843	AGUA DULCE	Mapped	Community - Terrestrial - Southern Riparian Scrub
Community - Terrestrial	Southern Riparian Scrub	Southern Riparian Scrub	CTT63300CA	None	None	-	-	3411842	ACTON	Mapped	Community - Terrestrial - Southern Riparian Scrub

Community - Terrestrial	Southern Riparian Scrub	Southern Riparian Scrub	CTT63300CA	None	None	-	-	3411853	SLEEPY VALLEY	Mapped	Community - Terrestrial - Southern Riparian Scrub
Community - Terrestrial	Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	-	-	3411842	ACTON	Mapped	Community - Terrestrial - Southern Sycamore Alder Riparian Woodland
Community - Terrestrial	Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	-	-	3411841	PACIFICO MOUNTAIN	Mapped	Community - Terrestrial - Southern Sycamore Alder Riparian Woodland
Community - Terrestrial	Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	-	-	3411843	AGUA DULCE	Mapped	Community - Terrestrial - Southern Sycamore Alder Riparian Woodland
Community - Terrestrial	Southern Willow Scrub	Southern Willow Scrub	CTT63320CA	None	None	-	-	3411853	SLEEPY VALLEY	Mapped	Community - Terrestrial - Southern Willow Scrub
Community - Terrestrial	Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA	None	None	-	-	3411863	DEL SUR	Mapped	Community - Terrestrial - Valley Needlegrass Grassland
Community - Terrestrial	Wildflower Field	Wildflower Field	CTT42300CA	None	None	-	-	3411863	DEL SUR	Mapped	Community - Terrestrial - Wildflower Field
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411863	DEL SUR	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411862	LANCASTER WEST	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411861	LANCASTER EAST	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411851	PALMDALE	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Yucca brevifolia	western Joshua tree	PMAGA0B071	None	Candidate Threatened	-	-	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Agavaceae - Yucca brevifolia
Plants - Vascular	Perideridia pringlei	adobe yampah	PDAPI1N0D0	None	None	-	4.3	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Apiaceae - Perideridia pringlei
Plants - Vascular	Hulsea vestita ssp. gabrielensis	San Gabriel Mountains hulsea	PDAST4Z075	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Asteraceae - Hulsea vestita ssp. gabrielensis
Plants - Vascular	Hulsea vestita ssp. gabrielensis	San Gabriel Mountains hulsea	PDAST4Z075	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Asteraceae - Hulsea vestita ssp. gabrielensis
Plants - Vascular	Hulsea vestita ssp. gabrielensis	San Gabriel Mountains hulsea	PDAST4Z075	None	None	-	4.3	3411843	AGUA DULCE	Unprocessed	Plants - Vascular - Asteraceae - Hulsea vestita ssp. gabrielensis
Plants - Vascular	Packera ionophylla	Tehachapi ragwort	PDAST8H1T0	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Asteraceae - Packera ionophylla
Plants - Vascular	Stylocline masonii	Mason's neststraw	PDAST8Y080	None	None	-	1B.1	3411842	ACTON	Mapped	Plants - Vascular - Asteraceae - Stylocline masonii
Plants - Vascular	Symphyotrichum greatae	Greata's aster	PDASTE80U0	None	None	-	1B.3	3411842	ACTON	Mapped	Plants - Vascular - Asteraceae - Symphyotrichum greatae
Plants - Vascular	Symphyotrichum greatae	Greata's aster	PDASTE80U0	None	None	-	1B.3	3411841	PACIFICO MOUNTAIN	Mapped	Plants - Vascular - Asteraceae - Symphyotrichum greatae



Plants - Vascular	<i>Symphotrichum greatae</i>	Greata's aster	PDASTE80U0	None	None	-	1B.3	3411843	AGUA DULCE	Mapped	Plants - Vascular - Asteraceae - <i>Symphotrichum greatae</i>
Plants - Vascular	<i>Syntrichopappus lemmonii</i>	Lemmon's syntrichopappus	PDAST90020	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Asteraceae - <i>Syntrichopappus lemmonii</i>
Plants - Vascular	<i>Cryptantha clokeyi</i>	Clokey's cryptantha	PDBOR0A3M0	None	None	-	1B.2	3411863	DEL SUR	Mapped and Unprocessed	Plants - Vascular - Boraginaceae - <i>Cryptantha clokeyi</i>
Plants - Vascular	<i>Thysanocarpus rigidus</i>	rigid fringedpod	PDBRA2Q070	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped	Plants - Vascular - Brassicaceae - <i>Thysanocarpus rigidus</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411842	ACTON	Mapped	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411863	DEL SUR	Mapped	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411852	RITTER RIDGE	Mapped	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411853	SLEEPY VALLEY	Mapped and Unprocessed	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411851	PALMDALE	Mapped	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	PDCAC0D053	None	None	-	1B.2	3411843	AGUA DULCE	Mapped	Plants - Vascular - Cactaceae - <i>Opuntia basilaris</i> var. <i>brachyclada</i>
Plants - Vascular	<i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>	sagebrush loeflingia	PDCAR0E011	None	None	-	2B.2	3411851	PALMDALE	Mapped	Plants - Vascular - Caryophyllaceae - <i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>
Plants - Vascular	<i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>	sagebrush loeflingia	PDCAR0E011	None	None	-	2B.2	3411861	LANCASTER EAST	Mapped	Plants - Vascular - Caryophyllaceae - <i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411862	LANCASTER WEST	Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411863	DEL SUR	Mapped and Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411851	PALMDALE	Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411853	SLEEPY VALLEY	Mapped and Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Calystegia peirsonii</i>	Peirson's morning-glory	PDCON040A0	None	None	-	4.2	3411843	AGUA DULCE	Unprocessed	Plants - Vascular - Convolvulaceae - <i>Calystegia peirsonii</i>
Plants - Vascular	<i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>	San Gabriel manzanita	PDERI042P0	None	None	-	1B.2	3411842	ACTON	Mapped and Unprocessed	Plants - Vascular - Ericaceae - <i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>

Plants - Vascular	<i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>	San Gabriel manzanita	PDERI042P0	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Plants - Vascular - Ericaceae - <i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>
Plants - Vascular	<i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>	interior manzanita	PDERI042A1	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Ericaceae - <i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>
Plants - Vascular	<i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>	interior manzanita	PDERI042A1	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Ericaceae - <i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>
Plants - Vascular	<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	PDFAB0F421	None	None	-	1B.1	3411852	RITTER RIDGE	Mapped	Plants - Vascular - Fabaceae - <i>Astragalus hornii</i> var. <i>hornii</i>
Plants - Vascular	<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	PDFAB0F421	None	None	-	1B.1	3411851	PALMDALE	Mapped	Plants - Vascular - Fabaceae - <i>Astragalus hornii</i> var. <i>hornii</i>
Plants - Vascular	<i>Astragalus preussii</i> var. <i>laxiflorus</i>	Lancaster milk-vetch	PDFAB0F721	None	None	-	1B.1	3411862	LANCASTER WEST	Mapped	Plants - Vascular - Fabaceae - <i>Astragalus preussii</i> var. <i>laxiflorus</i>
Plants - Vascular	<i>Astragalus preussii</i> var. <i>laxiflorus</i>	Lancaster milk-vetch	PDFAB0F721	None	None	-	1B.1	3411861	LANCASTER EAST	Mapped	Plants - Vascular - Fabaceae - <i>Astragalus preussii</i> var. <i>laxiflorus</i>
Plants - Vascular	<i>Lupinus albifrons</i> var. <i>johnstonii</i>	interior bush lupine	PDFAB2B1J4	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Fabaceae - <i>Lupinus albifrons</i> var. <i>johnstonii</i>
Plants - Vascular	<i>Quercus durata</i> var. <i>gabrielensis</i>	San Gabriel oak	PDFAG050G2	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Fagaceae - <i>Quercus durata</i> var. <i>gabrielensis</i>
Plants - Vascular	<i>Quercus durata</i> var. <i>gabrielensis</i>	San Gabriel oak	PDFAG050G2	None	None	-	4.2	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Fagaceae - <i>Quercus durata</i> var. <i>gabrielensis</i>
Plants - Vascular	<i>Quercus durata</i> var. <i>gabrielensis</i>	San Gabriel oak	PDFAG050G2	None	None	-	4.2	3411843	AGUA DULCE	Unprocessed	Plants - Vascular - Fagaceae - <i>Quercus durata</i> var. <i>gabrielensis</i>
Plants - Vascular	<i>Frasera neglecta</i>	pine green-gentian	PDGEN05080	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Gentianaceae - <i>Frasera neglecta</i>
Plants - Vascular	<i>Frasera neglecta</i>	pine green-gentian	PDGEN05080	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Gentianaceae - <i>Frasera neglecta</i>
Plants - Vascular	<i>Phacelia mohavensis</i>	Mojave phacelia	PDHYD0C310	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Hydrophyllaceae - <i>Phacelia mohavensis</i>
Plants - Vascular	<i>Juglans californica</i>	southern California black walnut	PDJUG02020	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Juglandaceae - <i>Juglans californica</i>
Plants - Vascular	<i>Clinopodium mimuloides</i>	monkey-flower savory	PDLAM1T040	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Lamiaceae - <i>Clinopodium mimuloides</i>
Plants - Vascular	<i>Lepechinia fragrans</i>	fragrant pitcher sage	PDLAM0V030	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Lamiaceae - <i>Lepechinia fragrans</i>
Plants - Vascular	<i>Monardella viridis</i>	green monardella	PDLAM180Q2	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Lamiaceae - <i>Monardella viridis</i>
Plants - Vascular	<i>Calochortus catalinae</i>	Catalina mariposa-lily	PMLIL0D080	None	None	-	4.2	3411853	SLEEPY VALLEY	Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus catalinae</i>
Plants - Vascular	<i>Calochortus clavatus</i> var. <i>avius</i>	Pleasant Valley mariposa-lily	PMLIL0D095	None	None	-	1B.2	3411853	SLEEPY VALLEY	Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus clavatus</i> var. <i>avius</i>



Plants - Vascular	<i>Calochortus clavatus</i> var. <i>clavatus</i>	club-haired mariposa-lily	PMLIL0D091	None	None	-	4.3	3411843	AGUA DULCE	Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus clavatus</i> var. <i>clavatus</i>
Plants - Vascular	<i>Calochortus clavatus</i> var. <i>gracilis</i>	slender mariposa-lily	PMLIL0D096	None	None	-	1B.2	3411843	AGUA DULCE	Mapped	Plants - Vascular - Liliaceae - <i>Calochortus clavatus</i> var. <i>gracilis</i>
Plants - Vascular	<i>Calochortus clavatus</i> var. <i>gracilis</i>	slender mariposa-lily	PMLIL0D096	None	None	-	1B.2	3411853	SLEEPY VALLEY	Mapped	Plants - Vascular - Liliaceae - <i>Calochortus clavatus</i> var. <i>gracilis</i>
Plants - Vascular	<i>Calochortus palmeri</i> var. <i>palmeri</i>	Palmer's mariposa-lily	PMLIL0D122	None	None	-	1B.2	3411853	SLEEPY VALLEY	Mapped and Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus palmeri</i> var. <i>palmeri</i>
Plants - Vascular	<i>Calochortus palmeri</i> var. <i>palmeri</i>	Palmer's mariposa-lily	PMLIL0D122	None	None	-	1B.2	3411842	ACTON	Mapped	Plants - Vascular - Liliaceae - <i>Calochortus palmeri</i> var. <i>palmeri</i>
Plants - Vascular	<i>Calochortus plummerae</i>	Plummer's mariposa-lily	PMLIL0D150	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus plummerae</i>
Plants - Vascular	<i>Calochortus plummerae</i>	Plummer's mariposa-lily	PMLIL0D150	None	None	-	4.2	3411843	AGUA DULCE	Mapped and Unprocessed	Plants - Vascular - Liliaceae - <i>Calochortus plummerae</i>
Plants - Vascular	<i>Calochortus striatus</i>	alkali mariposa-lily	PMLIL0D190	None	None	-	1B.2	3411861	LANCASTER EAST	Mapped	Plants - Vascular - Liliaceae - <i>Calochortus striatus</i>
Plants - Vascular	<i>Calochortus striatus</i>	alkali mariposa-lily	PMLIL0D190	None	None	-	1B.2	3411862	LANCASTER WEST	Mapped	Plants - Vascular - Liliaceae - <i>Calochortus striatus</i>
Plants - Vascular	<i>Lilium parryi</i>	lemon lily	PMLIL1A0J0	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped	Plants - Vascular - Liliaceae - <i>Lilium parryi</i>
Plants - Vascular	<i>Malacothamnus davidsonii</i>	Davidson's bush-mallow	PDMAL0Q040	None	None	-	1B.2	3411842	ACTON	Mapped	Plants - Vascular - Malvaceae - <i>Malacothamnus davidsonii</i>
Plants - Vascular	<i>Malacothamnus davidsonii</i>	Davidson's bush-mallow	PDMAL0Q040	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped	Plants - Vascular - Malvaceae - <i>Malacothamnus davidsonii</i>
Plants - Vascular	<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	PDSCR0D140	None	Rare	-	1B.2	3411842	ACTON	Mapped and Unprocessed	Plants - Vascular - Orobanchaceae - <i>Castilleja gleasoni</i>
Plants - Vascular	<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	PDSCR0D140	None	Rare	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped	Plants - Vascular - Orobanchaceae - <i>Castilleja gleasoni</i>
Plants - Vascular	<i>Castilleja plagiotoma</i>	Mojave paintbrush	PDSCR0D2J0	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Orobanchaceae - <i>Castilleja plagiotoma</i>
Plants - Vascular	<i>Castilleja plagiotoma</i>	Mojave paintbrush	PDSCR0D2J0	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Orobanchaceae - <i>Castilleja plagiotoma</i>
Plants - Vascular	<i>Castilleja plagiotoma</i>	Mojave paintbrush	PDSCR0D2J0	None	None	-	4.3	3411862	LANCASTER WEST	Unprocessed	Plants - Vascular - Orobanchaceae - <i>Castilleja plagiotoma</i>
Plants - Vascular	<i>Canbya candida</i>	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411861	LANCASTER EAST	Mapped and Unprocessed	Plants - Vascular - Papaveraceae - <i>Canbya candida</i>
Plants - Vascular	<i>Canbya candida</i>	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411862	LANCASTER WEST	Mapped and Unprocessed	Plants - Vascular - Papaveraceae - <i>Canbya candida</i>
Plants - Vascular	<i>Canbya candida</i>	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Papaveraceae - <i>Canbya candida</i>
Plants - Vascular	<i>Canbya candida</i>	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411851	PALMDALE	Unprocessed	Plants - Vascular - Papaveraceae - <i>Canbya candida</i>

Plants - Vascular	Canbya candida	white pygmy-poppy	PDPAP05020	None	None	-	4.2	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Plants - Vascular - Papaveraceae - Canbya candida
Plants - Vascular	Diplacus johnstonii	Johnston's monkeyflower	PDSCR1B1H0	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Phrymaceae - Diplacus johnstonii
Plants - Vascular	Eriastrum rosamondense	Rosamond eriastrum	PDPLM030G0	None	None	-	1B.1	3411862	LANCASTER WEST	Mapped	Plants - Vascular - Polemoniaceae - Eriastrum rosamondense
Plants - Vascular	Gilia latiflora ssp. cuyamensis	Cuyama gilia	PDPLM040T2	None	None	-	4.3	3411863	DEL SUR	Unprocessed	Plants - Vascular - Polemoniaceae - Gilia latiflora ssp. cuyamensis
Plants - Vascular	Linanthus concinnus	San Gabriel linanthus	PDPLM090D0	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Mapped and Unprocessed	Plants - Vascular - Polemoniaceae - Linanthus concinnus
Plants - Vascular	Linanthus concinnus	San Gabriel linanthus	PDPLM090D0	None	None	-	1B.2	3411842	ACTON	Mapped	Plants - Vascular - Polemoniaceae - Linanthus concinnus
Plants - Vascular	Acanthoscyphus parishii var. abramsii	Abrams' oxytheca	PDPGN0J041	None	None	-	1B.2	3411842	ACTON	Unprocessed	Plants - Vascular - Polygonaceae - Acanthoscyphus parishii var. abramsii
Plants - Vascular	Acanthoscyphus parishii var. abramsii	Abrams' oxytheca	PDPGN0J041	None	None	-	1B.2	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Polygonaceae - Acanthoscyphus parishii var. abramsii
Plants - Vascular	Acanthoscyphus parishii var. parishii	Parish's oxytheca	PDPGN0J044	None	None	-	4.2	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Polygonaceae - Acanthoscyphus parishii var. parishii
Plants - Vascular	Acanthoscyphus parishii var. parishii	Parish's oxytheca	PDPGN0J044	None	None	-	4.2	3411842	ACTON	Unprocessed	Plants - Vascular - Polygonaceae - Acanthoscyphus parishii var. parishii
Plants - Vascular	Chorizanthe parryi var. parryi	Parry's spineflower	PDPGN040J2	None	None	-	1B.1	3411862	LANCASTER WEST	Mapped	Plants - Vascular - Polygonaceae - Chorizanthe parryi var. parryi
Plants - Vascular	Chorizanthe parryi var. parryi	Parry's spineflower	PDPGN040J2	None	None	-	1B.1	3411861	LANCASTER EAST	Mapped	Plants - Vascular - Polygonaceae - Chorizanthe parryi var. parryi
Plants - Vascular	Chorizanthe spinosa	Mojave spineflower	PDPGN040R0	None	None	-	4.2	3411861	LANCASTER EAST	Unprocessed	Plants - Vascular - Polygonaceae - Chorizanthe spinosa
Plants - Vascular	Chorizanthe spinosa	Mojave spineflower	PDPGN040R0	None	None	-	4.2	3411862	LANCASTER WEST	Unprocessed	Plants - Vascular - Polygonaceae - Chorizanthe spinosa
Plants - Vascular	Chorizanthe spinosa	Mojave spineflower	PDPGN040R0	None	None	-	4.2	3411851	PALMDALE	Unprocessed	Plants - Vascular - Polygonaceae - Chorizanthe spinosa
Plants - Vascular	Dodecahema leptoceras	slender-horned spineflower	PDPGN0V010	Endangered	Endangered	-	1B.1	3411843	AGUA DULCE	Mapped	Plants - Vascular - Polygonaceae - Dodecahema leptoceras
Plants - Vascular	Eriogonum umbellatum var. minus	alpine sulphur-flowered buckwheat	PDPGN086U7	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Polygonaceae - Eriogonum umbellatum var. minus
Plants - Vascular	Goodmania luteola	golden goodmania	PDPGN0B010	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Polygonaceae - Goodmania luteola
Plants - Vascular	Goodmania luteola	golden goodmania	PDPGN0B010	None	None	-	4.2	3411862	LANCASTER WEST	Unprocessed	Plants - Vascular - Polygonaceae - Goodmania luteola
Plants - Vascular	Goodmania luteola	golden goodmania	PDPGN0B010	None	None	-	4.2	3411861	LANCASTER EAST	Unprocessed	Plants - Vascular - Polygonaceae - Goodmania luteola

Plants - Vascular	<i>Sidotheca caryophylloides</i>	chickweed oxytheca	PDPGN0J010	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Polygonaceae - <i>Sidotheca caryophylloides</i>
Plants - Vascular	<i>Androsace elongata</i> ssp. <i>acuta</i>	California androsace	PDPRI02031	None	None	-	4.2	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Primulaceae - <i>Androsace elongata</i> ssp. <i>acuta</i>
Plants - Vascular	<i>Androsace elongata</i> ssp. <i>acuta</i>	California androsace	PDPRI02031	None	None	-	4.2	3411852	RITTER RIDGE	Unprocessed	Plants - Vascular - Primulaceae - <i>Androsace elongata</i> ssp. <i>acuta</i>
Plants - Vascular	<i>Galium jepsonii</i>	Jepson's bedstraw	PDRUB0N130	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Rubiaceae - <i>Galium jepsonii</i>
Plants - Vascular	<i>Galium jepsonii</i>	Jepson's bedstraw	PDRUB0N130	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Rubiaceae - <i>Galium jepsonii</i>
Plants - Vascular	<i>Galium johnstonii</i>	Johnston's bedstraw	PDRUB0N140	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Rubiaceae - <i>Galium johnstonii</i>
Plants - Vascular	<i>Galium johnstonii</i>	Johnston's bedstraw	PDRUB0N140	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Rubiaceae - <i>Galium johnstonii</i>
Plants - Vascular	<i>Heuchera caespitosa</i>	urn-flowered alumroot	PDSAX0E1C0	None	None	-	4.3	3411841	PACIFICO MOUNTAIN	Unprocessed	Plants - Vascular - Saxifragaceae - <i>Heuchera caespitosa</i>
Plants - Vascular	<i>Heuchera caespitosa</i>	urn-flowered alumroot	PDSAX0E1C0	None	None	-	4.3	3411842	ACTON	Unprocessed	Plants - Vascular - Saxifragaceae - <i>Heuchera caespitosa</i>
Plants - Vascular	<i>Lycium torreyi</i>	Torrey's box-thorn	PDSOLOG0K0	None	None	-	4.2	3411851	PALMDALE	Unprocessed	Plants - Vascular - Solanaceae - <i>Lycium torreyi</i>
Plants - Vascular	<i>Muilla coronata</i>	crowned muilla	PMLIL1H020	None	None	-	4.2	3411851	PALMDALE	Unprocessed	Plants - Vascular - Themidaceae - <i>Muilla coronata</i>

APPENDIX C. Plants identified to occur on the project site.

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Appendix C. Plant species observed on the site during the field survey.

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SPECIES	COMMON NAME
<u>GRASSES/OTHER MONOCOTS</u>	
<i>Bromus madritensis ssp. rubens</i>	red brome
<i>Bromus tectorum</i>	cheatgrass
<i>Festuca megalura</i>	foxtail fescue
<i>Hordeum murinum</i>	false or wall barley
<u>FORBS</u>	
<i>Amsinkckia tessellata</i>	fiddleneck
<i>Chenopodium album</i>	lambs' quarters
<i>Croton setigerus</i>	turkey mullein
<i>Erodium cicutarium</i>	filaree
<i>Eschscholzia californica</i>	California poppy
<i>Euphorbia albomarginata</i>	white margin sand ma, or rattlesnake weed
<i>Phacelia tanacetifolia</i>	lacy leafed phacelia
<i>Salsola tragus</i>	Russian thistle
<i>Sisymbrium altissimum</i>	tumble mustard
<i>Sisymbrium irio</i>	rocket mustard
<i>Tribulus terrestris</i>	puncture vine
<u>SHRUBS/TREES</u>	
<i>Atriplex confertifolia</i>	shadscale
<i>Atriplex canescens</i>	four wing saltbush
<i>Chrysothamnus nauseosus</i>	rubber rabbitbrush
<i>Ephedra viridis</i>	green ephedra
<i>Yucca brevifolia</i>	old dead pieces in soil

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APPENDIX D. List of animals and wildlife observed during the field surveys.

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Appendix D. Wildlife and other animal species or their sign observed on the site during the field survey.

COMMON NAME	SPECIES	COMMENTS
<u>BIRDS</u>		
Common raven	<i>Corvus corax</i>	fly over
Red tailed hawk Down feathers on ground	<i>Buteo jamaicensis</i>	soaring over site apparent bird mortality
<u>MAMMALS</u>		
Black-tailed jackrabbit Botta's pocket gopher California ground squirrel	<i>Lepus californicus</i> <i>Thomomys bottae</i> <i>Otospermophilus beecheyi</i>	small area of scat burrows and mounds burrows, scat and tracks, observed
Dog	<i>Canis lupus</i>	tracks along road shoulder
White-footed deer mouse	<i>Peromyscus maniculatus (prob)</i>	burrows
<u>REPTILES</u>		
Side-blotched lizard	<i>Uta stansburiana</i>	observed running



## **Appendix D Mitigation, Monitoring and Reporting Plan**

<b>BIOLOGICAL RESOURCES</b>	<b>Mitigation Measure</b>
<p>Project occurs within the known range of sensitive wildlife species which could potentially move onto the project site.</p>	<p><b>BIO-1:</b> Consistent with the “Staff Report on Burrowing Owl Mitigation” a take avoidance (preconstruction) burrowing owl survey will be accomplished no more than 14 days prior to ground disturbance activities to ensure no owls have moved into the study site (CDFG 2012). If burrowing owls are found to have moved into the site, methods noted within the Staff Report will be applied as appropriate.</p> <p><b>BIO-2:</b> If possible, removal of vegetation will occur outside the nesting season for migratory birds. Nesting generally lasts from February to July but may extend beyond this time frame. If this removal will occur during or close to the nesting season, a qualified biologist will survey all areas to be disturbed as close as possible but no more than one week prior to removal. If active bird nests are found, impacts to nests will be avoided by either delaying work or establishing initial buffer areas of a minimum of 50 feet (16 m) around active migratory bird species nests. The project biologist will determine if the buffer areas should be increased or decreased based on the nesting bird response to disturbances.</p> <p><b>BIO-3:</b> Train contractors and employees regarding the possible species of concern which may occur on the site and the take avoidance and protection measures to be immediately implemented if one is observed.</p> <p><b>BIO-4:</b> Inspect trenches and excavations to prevent entrapment of wildlife species and help prevent entrapment.</p> <p><b>BIO-5:</b> Covering of openings such as found on pipes, poles and vaults to prevent entrapment. If wildlife are encountered inside pipes, contact a qualified biologist to ascertain the course of action. Harassment of protected species is prohibited by both federal and state laws.</p> <p><b>BIO-6:</b> Keep garbage and food stuffs contained and removed daily from the project site.</p> <p><b>BIO-7:</b> Keep vehicles and equipment on surveyed areas on the project site only. Inspect inside and underneath vehicles, equipment and materials prior to moving them. If any protected species are found, all work which may harm it must stop immediately and a qualified wildlife biologist be contacted.</p> <p><b>BIO-8:</b> Use slow speed limits of 15-20 mph or less and avoid night work.</p>
<p><b>Timing:</b> During development</p>	
<p><b>Implementing Entity:</b> Developer will include as part of construction contract/specifications.</p>	
<p><b>Monitoring Agency:</b> City of Palmdale Planning Department or it’s designee</p>	

<b>CULTURAL RESOURCES</b>	<b>Mitigation Measure</b>
<p>In the event resources or remains are discovered during project activities the following measures will be implemented.</p>	<p><b>CUL-1:</b> Inadvertent Discovery of Archaeological Resources. If archaeological resources are encountered during implementation of the Project, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period.</p> <p><b>CUL-2:</b> Human Remains. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.</p>
<p><b>Timing:</b> During development</p>	
<p><b>Implementing Entity:</b> Developer will include as part of construction contract/specifications.</p>	
<p><b>Monitoring Agency:</b> City of Palmdale Planning Department or it's designee</p>	
<b>GEOLOGY AND SOILS</b>	<b>Mitigation Measure</b>
<p>In the event of inadvertent findings are during construction activities the following measures will be implemented.</p>	<p><b>GEO-1:</b> Inadvertent Discovery of Paleontological Resources. If paleontological resources are encountered during implementation of the Project, ground-disturbing activities will be temporarily redirected from the vicinity of the find. A qualified paleontologist (the "Project Paleontologist") shall be retained by the developer to make an evaluation of the find. If the resource is significant, Mitigation Measure GEO-2 shall apply.</p> <p><b>GEO-2:</b> Paleontological Treatment Plan. If a significant paleontological resource(s) is discovered on the property, in consultation with the Project proponent and the City, the qualified paleontologist shall develop a plan of mitigation which shall include salvage excavation and removal of the find, removal of sediment from around the specimen (in the laboratory), research to identify and categorize the find, curation in the find a local qualified repository, and preparation of a report summarizing the find.</p>
<p><b>Timing:</b> During development</p>	
<p><b>Implementing Entity:</b> Developer will include as part of construction contract/specifications.</p>	
<p><b>Monitoring Agency:</b> City of Palmdale Planning Department or it's designee</p>	

HYDROLOGY AND WATER QUALITY	Mitigation Measure
<p>Best management practices as required by both NPDES and the SWPPP will be accomplished through implementation of the following measures.</p>	<p><b>WQ-1:</b> Prior to issuance of a grading permit the applicant shall obtain coverage under the statewide general NPDES permit for control of construction and post-construction related storm water in accordance with the requirements of the Small MS4 General Permit. In addition, the applicant shall:</p> <ul style="list-style-type: none"> <li>• Prepare a project specific Storm Water Pollution Prevention Plan (SWPPP) as required in the NPDES permit and shall identify site-specific erosion and sediment control best management practices that will be implemented;</li> <li>• The SWPPP shall be applicable to all areas of the project site including construction areas, access roads to and through the site, and staging and stockpile areas;</li> <li>• Temporary best management practices for all components of the project must be implemented until such time as permanent post-construction best management practices are in place and functioning; and</li> <li>• All excess sediment excavated as part of the Project that is not used onsite should be stockpiled in a location such that it will not be transported by wind or water into a surface water. An adequate combination of sediment and erosion control BMPs must be implemented and maintained to temporarily stabilize all stockpiled sediment until such time that it is reused and/or permanently stabilized.</li> </ul> <p><b>WQ-2:</b> The applicant/developer shall prepare and implement a comprehensive Spill Prevention and Response Plan for the Project, subject to review and approval by the City Planner and City Engineer (or their designee) prior to the issuance of any associated building or grading permit. This plan should outline the site-specific monitoring requirements and list the best management practices necessary to prevent hazardous material spills or to contain and cleanup a hazardous material spill, should one occur.</p>
<p><b>Timing:</b> Prior to and during development</p>	
<p><b>Implementing Entity:</b> Developer will include as part of construction contract/specifications. Lahontan Water Quality Control Board (permits)</p>	
<p><b>Monitoring Agency:</b> City of Palmdale Planning Department or it's designee</p>	

TRIBAL CULTURAL RESOURCES	Mitigation Measure
<p>To ensure no Tribal cultural resources or remains are impacted during project activities the following measures will be implemented.</p>	<p><b>TCR-1:</b> The project applicant shall retain a professional Tribal Monitor procured by the Fernandefio Tataviam Band of Mission Indians to observe all ground-disturbing activities including, but not limited to, clearing, grubbing, grading, excavating, digging, trenching, plowing, drilling, tunneling, quarrying, leveling, driving posts, auguring, blasting, stripping topsoil or similar activity. If cultural resources are encountered, the Tribal Monitor will have the authority to request that ground-disturbing activities cease within 60 feet of discovery and a qualified archaeologist meeting Secretary of Interior standards retained by the project applicant as well as the Tribal Monitor shall assess the find.</p> <p><b>TCR-2:</b> The Lead Agency and/or applicant shall, in good faith, consult with the FTBMI on the disposition and treatment of any Tribal Cultural Resource encountered during all ground disturbing activities.</p> <p><b>TCR-3:</b> If human remains or funerary objects are encountered during any activities associated with the Project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code shall be enforced for the duration of the Project.</p> <p>a. Inadvertent discoveries of human remains and/or funerary object(s) are subject to California State Health and Safety Code Section 7050.5, and the subsequent disposition of those discoveries shall be decided by the Most Likely Descendant (MLD), as determined by the Native American Heritage Commission (NAHC), should those findings be determined as Native American in origin.</p>
<p><b>Timing:</b> During development</p>	
<p><b>Implementing Entity:</b> Developer will include as part of construction contract/specifications.</p>	
<p><b>Monitoring Agency:</b> City of Palmdale Planning Department or it's designee</p>	



## **Appendix E Cultural Resource Report**

**A**  
**PHASE I CULTURAL RESOURCE SURVEY**  
**FOR APNS 3005-010-025, AND -026**  
**10<sup>TH</sup> STREET WEST AND AVENUE O,**  
**CITY OF PALMDALE, CALIFORNIA**

**Submitted to:**  
David Shamsian  
1752 West Avenue K  
Lancaster, California 93534

**Keywords:**  
Ritter Ridge 7.5' Quadrangle, City of Palmdale,  
California Environmental Quality Act

**Submitted by:**  
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**Author:**  
Scott M. Hudlow

**December 2017; Revised March 2022**

## Management Summary

At the request of David Shamsian, a Phase I Cultural Resource Survey APNs 3005-010-025 and -026, 10<sup>th</sup> Street West and Avenue O, City of Palmdale, California. The Phase I Cultural Resource Survey consisted of a pedestrian survey of the approximate two-acre site and a cultural resource record search.

No cultural resources were identified. **If archaeological resources are encountered during the course of construction, a qualified archaeologist should be consulted for further evaluation.**

**If human remains or potential human remains are observed during construction, work in the vicinity of the remains will cease, and they will be treated in accordance with the provisions of State Health and Safety Code Section 7050.5. The protection of human remains follows California Public Resources Codes, Sections 5097.94, 5097.98, and 5097.99.**

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## **1.0 Introduction**

At the request of David Shamsian, *Hudlow Cultural Resource Associates* conducted an approximate two-acre Phase I Cultural Resource Survey of APNs 3005-010-025 and -026, 10<sup>th</sup> Street West and Avenue O, City of Palmdale, California for a proposed commercial development. The Phase I Cultural Resource Survey consisted of a pedestrian survey and a cultural resource record search in accordance with the California Environmental Quality Act.

## **2.0 Project Location**

The project area is in the City of Palmdale. It is the NE  $\frac{1}{4}$  of the NE  $\frac{1}{4}$  of the NE  $\frac{1}{4}$  of Section 16, T.6N., R.12W., San Bernardino Baseline and Meridian, as displayed on the United States Geological Survey (USGS) Ritter Ridge 7.5-minute quadrangle map (Figure 1). The project area is at the southwest corner of 10<sup>th</sup> Street West and Avenue O in the City of Palmdale, California.

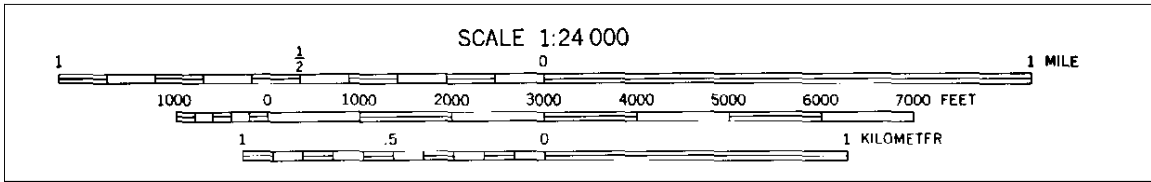
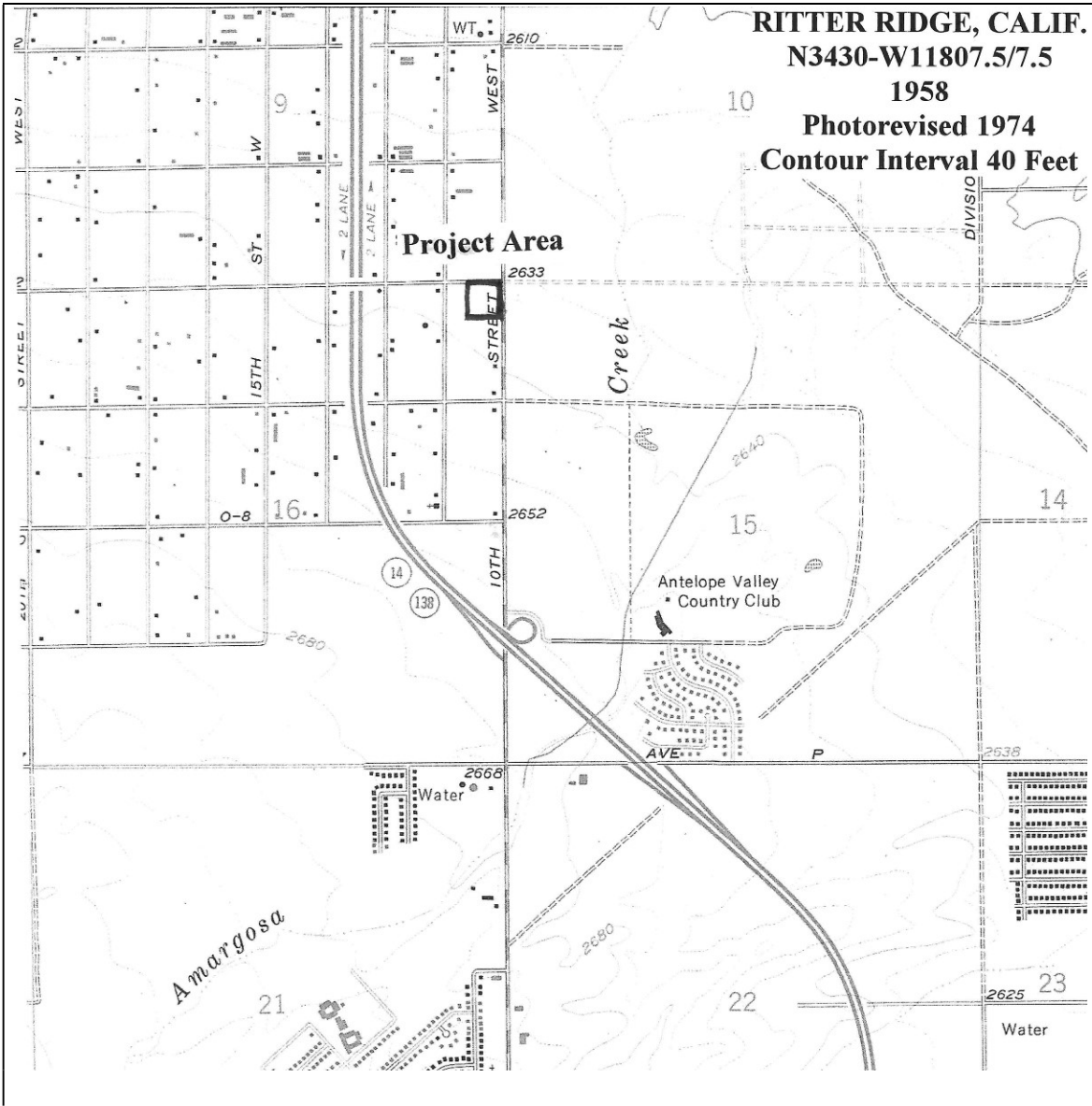
## **3.0 Records Search**

A record search of the project area and the environs within one mile was conducted at the South Coast Archaeological Information Center. Scott M. Hudlow performed the record search on November 20, 2017. The record search revealed that eight surveys had been conducted within a half-mile of the project area. No previous surveys have addressed the current project area. Two cultural resources have been identified within one half-mile of the project area; one is a historic homestead and one is a prehistoric isolate. No cultural resources have been identified within the current project area.

A Sacred Lands File search was requested from the Native American Heritage Commission on November 25, 2017. The search, which was completed on November 29, 2017, revealed that no Native American cultural resources are located in close proximity to the project area. Native American consultation letters were sent out on December 1, 2017 to each of the listed tribal entities, notifying each interested Los Angeles County Native Contact, per the list provided by the Native American Heritage Commission. Ten parties were sent letters. These letters both described the project and provided maps for further reference. By December 22, 2017, one party returned a response with comments, the San Manuel Band of Mission Indians. The email specified conditions upon which entity they would consult, and what they required to conduct that consultation (Appendix II).

## **4.0 Environmental Background**

The project area is located at an approximate elevation of 2633 feet above mean sea level. The project area lies in the Antelope Valley, east of Quartz Hill and north of Amargosa Creek, west of Little Rock Wash, at the western edge of the Mojave Desert. The project area lies within a saltbush scrub vegetation zone. The project area has been heavily impacted by construction



**Figure 1**  
**Project Area Location Map**



mounds, particularly on the northwestern portion of the project area (Figures 2 and 3).

## 5.0 Prehistoric Archaeological Context

A generally accepted prehistoric cultural chronology for the western Mojave region has yet to be developed, partially because sparse local chronometric data is available to use as a foundation. Consequently, most proposed local culture histories have been borrowed from other regions, with minor modifications based on sparse local data. The most common pattern is the tripartite Early/Middle/ Late sequence familiar in Californian culture history, often with the addition of a Post-Contact (Norwood 1987) or Protohistoric Period (Sutton 1988). The differences between the sequences are mainly in the inclusion of various horizons, technologies, or stages. The following chronology is based on Claude Warren's Lake Mojave, Pinto, Gypsum, Saratoga Springs, and Protohistoric Periods, which is partially based on time-sensitive projectile points and shell bead sequences (Warren 1984; Warren and Crabtree 1986).

### *Lake Mojave Period - ca. 10,000-5,000 B.C.*

Most Lake Mojave Period sites within the northern Mojave Desert and southwestern Great Basin are early Holocene lakeshore occupations. Sutton stated that the subsistence strategy during this period was presumably one of hunting and utilization of lacustrine resources (Sutton 1988:30). The best examples of sites from this period are associated with the shoreline of Pleistocene Lake Mojave (Campbell *et al.* 1937). Artifacts include percussion-flaked foliate points and knives, Lake Mojave and Silver Lake projectile points, and an unspecialized tool kit of scrapers, graters, and perforating tools.

### *Pinto Period - ca. 5,000-2,000 B.C.*

Some scholars have interpreted the association of Pinto Basin sites and a now extinct riverbed as indicative of occupation during a time of abundant moisture (Campbell and Campbell 1935). Settlement patterns appear to be associated with ephemeral lakes and now-dry streams and springs (Warren 1984). Though the Pinto Period is roughly concurrent with the Altithermal climatic event, (a time when human populations were supposedly reduced in size and more widely dispersed due to the desiccation of wetter habitats), the occurrence of a milder, wetter, Little Pluvial period within the Altithermal has been noted by several archaeologists (Moratto 1984:546). The extent to which the Little Pluvial climatic period may coincide with Pinto Period sites is unknown.

To date, at least seventeen Pinto points and six Pinto Period sites have been recorded in the vicinity (Campbell 1994a). Norwood (1987:104) noted that the lowland areas in the northern portions of adjacent Edwards Air Force Base (AFB) contain evidence of substantial occupations which may date to the Pinto Period; such a conclusion would contradict the hypothesis of a small, dispersed population distribution at this time. Recent evaluation of a Lake Mojave/Pinto



**Figure 2**  
**Project Area, View to the Southwest**



**Figure 3**  
**Project Area, View to the East**

Period site at Phillips Laboratory supports Norwood's observation about substantial occupations (Campbell 1994b).

#### *Gypsum Period - ca. 2000 B.C.-A.D. 500*

During the Gypsum Period, evidence of a millingstone culture becomes much more common. The mortar and pestle were probably introduced during this period (Wallace 1955:222-223; Warren 1984:4163). Wallace noted evidence of expanded subsistence activities where late period peoples around Mesquite Flat were believed to have extended their food-collecting activities into the surrounding mountains (Wallace 1977:121).

A gradual transition from the use of large dart points to smaller projectile points associated with use of the bow and arrow occurred toward the end of the Gypsum Period. Approximately A.D. 500, the bow and arrow essentially replaced the atlatl (a device used for throwing spears or darts that consists of a rod with a hook at the rear end to hold the projectile in place until release) (Warren 1984:415). Shutler postulated that Anasazi ceramics were initially introduced into the eastern Mojave at about the same time (Shutler *et al* 1961). Diagnostic projectile points associated with the Gypsum Period include the Humboldt, Gypsum Cave, Elko Eared, and Elko Corner-notched types (Warren 1984:414-415). Other temporal designations, which may be correlated with Warren's Gypsum Period, include the Early and Middle Rose Spring Periods (Lanning 1963; Clewlow *et al.* 1970) and the Newberry Period (Bettinger and Taylor 1974).

The scant published literature reports relatively little local evidence of Gypsum material (Robinson 1977:45; Sutton 1988:38). Norwood (1987:101-104) however, notes several isolated examples of projectile points from this period at Edwards AFB. A study of projectile points in the Base Historic Preservation Officer's database has identified ten Humboldt points, four Elko Corner-notched points, one Elko Side-notched point, five undifferentiated Elko points, and three Gypsum Cave points (Campbell 1994a). If isolated points are eliminated from the sample, the remaining 17 points from the Gypsum Period come from 16 sites. Radiocarbon data identifies another five Antelope Valley sites (LAN-82, LAN-192, KER-303, KER-526, and KER-533) with materials that fall within the Gypsum Period. Hydration readings suggest the possibility that a number of additional Gypsum Period sites are present. Therefore, a Gypsum presence in the area is well represented.

#### *Saratoga Springs Period - ca. A.D. 500-1200*

The Saratoga Springs Period is marked by what appears to be the establishment of large villages, or village complexes. This reflects a transition from the previous seasonal transhumance pattern into one of semi-, or fully-sedentary occupation within the Antelope Valley (Sutton 1988).

This period also marks the beginning of the Shoshonean period, named for the Shoshonean peoples who occupied the Western Mojave Desert during this period (Robinson 1977). The Numic and Takic Shoshonean groups were expanding during this period. Both groups made use of a millingstone technology-- other aspects of their material culture include marine shell, bone, and perishable artifacts. Takic sociopolitical organizations differ from those of Northern Numic groups. The Kitanemuk (a Takic group) are reported as having well developed social ranking and prestige systems (Blackburn and Bean 1978). Grover Krantz postulated that the Takic expansion to the south was stimulated by Northern groups who "...overran their neighbors for a considerable distance to the south" (Krantz 1978:64) in order to obtain acorn resources. This migration occurred at about 2000 B.P. (Sutton 1988:40).

Time-sensitive projectile points from this period include the Rose Spring, Cottonwood, and Desert Side-Notched series. It has been argued that assemblages with Cottonwood points and no Desert Side-Notched points represent an earlier occupation than sites with both Cottonwood and Desert Side-notched points, and that the earlier occupation is associated with the Hakataya influence from the Southwest (Warren 1984:423-424; Warren and Crabtree 1986:191). In the western Mojave Desert, diagnostic materials from this period include various types or examples of poorly understood brownware pottery and desert side notch series projectile points (Warren and Crabtree 1986:191). The use of pottery in the Antelope Valley is currently poorly understood.

A current local projectile point database includes four complete Rose Spring points and three projectile point fragments identified as Rose Spring. These seven items were recovered from six sites (CA-KER-562, CA-KER-672, CA-KER-1171, CA-KER-2533, CA-KER-2817, and CA-LAN-828). Twenty-five complete points and twenty-seven point fragments recovered from twenty sites represent the Cottonwood series of projectile points (Campbell 1994a). One complete Desert Side-notched point and three fragments identified as Desert Side-notched have been recovered from four sites (CA-KER-672, CA-KER-1180, CA-KER-2025, and CA-LAN-769).

#### *Protohistoric Period- ca. A.D. 1200-Historic*

Warren used the term "Protohistoric" to describe the period, which reflects a transition from the prehistoric to historic eras (Warren 1984). However, Arkush, noting this term has distinct cultural implications, argued this time is more properly designated the "Late Archaic," while many archaeologists colloquially call this period the "Late Prehistoric" (Arkush 1990:29). This period is also termed the "Shoshonean" Period (Warren 1984; Warren and Crabtree 1986), potentially clouding the culture history sequence by adding a name, which has cultural and linguistic meanings when describing modern groups. Whatever its name, the period markers are considered to be Desert Side-notched arrow points "...and various poorly defined types of brownware pottery including Owens Valley Brownware" (Warren and Crabtree 1986:191).

This period reflects a continuation of cultural developments established during the previous period, but with adaptive modifications. Trade along the Mojave River likely affected the people of the Eastern Antelope Valley, allowing active groups to acquire considerable amounts of wealth. Socioeconomic and sociopolitical organizations continued to increase in complexity. However, most Antelope Valley groups appear to have developed stronger ties with coastal groups rather than those of the eastern desert and Great Basin (Warren 1984:426). By approximately A.D. 1300, the Hakataya expansion reached its western extreme. Warren (1984) interprets the paucity of ceramic ware in Antelope Valley village sites as evidence that Hakatayan influence upon local groups was minimal.

## **6.0 Ethnographic Background**

The "Contact" period is difficult to define in theory and to detect in practice. The earliest contact between the native populations of the New and Old Worlds traditionally dates to Columbus' landfall. Native Americans felt the Europeans' impact (and later, the Euro-Americans) in a variety of ways, and direct, face-to-face contact was not necessary for their lives to be changed irrevocably. For example, trade items like guns, horses, metal, and cloth spread quickly, and were rapidly incorporated into the indigenous cultures; in many cases, trade with Europeans altered an entire culture or dramatically shifted power balances between groups. Diseases to which Native Americans had little or no resistance preceded the Euro-Americans to the furthest corners of the continent, decimating entire populations within months (Cook 1955). Specific types of osteological damage or mass burials can indicate the onset of Euro-American diseases. However, such evidence has been elusive. Thus, "contact" in North America is usually perceived by anthropologists not as a single point in time, but rather, as a period of centuries, the beginning and ending points of which are frustratingly vague, and vary from region to region. Such population shifts rippled across the continent, exacerbated by the expansion of European and Euro-American settlements. Even word-of-mouth spread the news of alien people, goods, and events.

In the archaeological record, clear evidence of contact takes three forms: a mix of aboriginal and Euro-American artifacts, aboriginal-style artifacts made from Euro-American materials (e.g., glass projectile points or thimble tinklers), or European forms, designs, and motifs utilized in aboriginal crafts (i.e. basketry or pottery).

The term "Protohistoric" is also sometimes used in this context. Arkush (1990:29) defined this Protohistoric Period as "...a distinct span of time during which native cultures were modified by the introduction of Euro-American diseases, material, and/or practices prior to intensive, face-to-face contact with whites." In fact, historical documents from explorers and others describe many tribes long before "intensive" contact occurred, and other groups experienced such contact without much, if any, historical documentation.



Just as the dates are hard to define, it is a challenge to determine which aboriginal groups inhabited the Antelope Valley, particularly the area, which is now Edwards AFB. Generally, people occupied core areas in the hills and mountains surrounding the valley and traveled into the desert to gather particular plants, or to escape mountain weather; consequently, the desert boundaries were neither strict nor firmly embedded in the "memory culture" of the ethnographic present. The peripatetic hunter-gatherers of the area do not seem to have been particularly territorial. According to Earle, Harrington's informants indicated "...that all of the clan groups of Serrano/Haminat speech affiliation north of Cajon Pass and east of Soledad Pass constituted a single ethnic domain," although differences in dialect, social organization, and material culture are present (Earle 1990:97).

To add to the ethnographic tangle, or perhaps causing some of it, the cultures of the Antelope Valley were severely impacted by repeated diasporas, a common tale in California: first, missionization under the Spanish; then transfer to "reserved" land under the Americans; then dispossession from the reservations as the land was converted (sometimes questionably) to claims by Euro-Americans under the Homestead Laws, and last, another removal to still more distant reservations or marginal land.

Each dislocation effectively removed the people further from the traditional patterns of the generations before, adding a new layer of custom and habit, creating a cultural mosaic by the time ethnographers arrived.

For these and a variety of other reasons, determining contact-period aboriginal territories on the Base may be a futile exercise, if not impossible. In fact, in the available ethnographic territorial information for the Antelope Valley, by far the vaguest data concerns an area almost exactly described by the boundaries of Edwards AFB.

In the following discussions, it should be kept firmly in mind that the "territories" are all somewhat arbitrary, descriptions from "memory culture," and different author's comments may be based on the same sources, giving a false impression of corroborating evidence. Generally, four groups occupied the western Mojave at the time of contact: Kitanemuk, Tataviam ("Alliklik"), Kawaiisu, and Vanyume ("Serrano"). Additionally, other groups, particularly the Mojave from the east, were known to pass through the area while trading with coastal groups. The Kawaiisu are known to have occasionally utilized portions of the Base (Cultural Systems Research 1980:190-191). Lowell Bean and Sylvia Brakke Vane speculated the Tataviam and Gabrielino may have also exploited resources found on the Base. It is also probable that Mojave and Quechan groups, wide-ranging travelers and traders, utilized resources as they passed through the region (Cultural Systems Research 1980:191).



### *Kitanemuk and Tataviam*

The Kitanemuk and the Tataviam occupied the western portion of the Antelope Valley, but no distinct line can be drawn between their lands. Kroeber's description of Tataviam (or, as he called them, "Alliklik") territory did not include the Antelope Valley, but clearly was centered on the nearby upper Santa Clara River in the mountains west of the valley (Kroeber 1925: 556). According to Kroeber, the Sawmill Mountains and adjacent Liebre Mountains at the western rim of the valley were the territory of the Kitanemuk. King and Blackburn rejected this division, agreeing that the Tataviam were centered on the southern-facing slopes of the Santa Clara River drainage, but arguing it was the Tataviam whose "...territory extended over the Sawmill Mountains to the north [of the Santa Clara River] to include at least the southwestern fringes of the Antelope Valley" and Lake Elizabeth (King and Blackburn 1978:535-536). Their map placed the Tataviam south of Pastoria Creek, midway up the western edge of the Antelope Valley.

Earle, however, compared Garcés diary, upon which most of the preceding discussions were based, against J. P. Harrington's unpublished notes. Earle determined that the "*Beñeme*" of whom Garcés wrote were Vanyume proper, not a generic name assigned by the Mojave to all local Indians. Such misinterpretations of Garcés' comments and place names resulted in the misassignment of the southwestern Antelope Valley to the Tataviam or Kitanemuk. Earle's conclusions seem stronger than earlier arguments, for they support a more straightforward reading of Garcés, agree with ethnographic testimony, and are consistent with the mission records.

### *Kawaiisu*

Moving to the northern portion of the Antelope Valley, the Kawaiisu are generally agreed to have occupied the Sierra Nevada south of the Kern River fork (now Lake Isabella), and eastward for an unknown distance. Kroeber stated the Kawaiisu territory went to the boundaries of the "westernmost of the Chemehuevi [i.e., the Southern Paiute of California]" who "visited and owned" the northwestern corner of San Bernardino County--far north of Edwards AFB (Kroeber 1925:593, 594, 601).

On the other hand, Zigmond illustrated a far more limited range for the Kawaiisu, encompassing a "core area" from the northern edge of the Tehachapis to the fork of the Kern River (Zigmond 1986:398). Zigmond's map also indicates a seasonal range extending east just north of Rosamond Lake but dipping southeast to encompass Rogers Lake and the central portion of the Mojave River. This outline roughly agrees with the northeastern border of the Kitanemuk as defined by Blackburn and Bean. These boundaries should not be considered mutually exclusive, however, as among the Kawaiisu, "...the concept of territory was weakly developed, and the idea of boundary was probably nonexistent.... The characteristic shifting about in relation to the seasons makes it impossible to devise a static map of land occupation" (Zigmond 1986:398).

## Vanyume

The last group is the Vanyume, occasionally referred to as "Serrano" in the literature (Kroeber 1925; Bean and Smith 1978). Kroeber stated they were found as far west as Barstow, which statement would preclude their presence in the Antelope Valley. However, King and Blackburn (1978:535) speculated that "..the major portion of the Antelope Valley itself was probably held by Kitanemuk and Vanyume speakers." Further clouding the issue, Bean and Smith (1978:570), writing about the Vanyume in the same volume, state the language of the Vanyume cannot be identified. Bean and Smith did not fully depict the Vanyume territory in their map, omitting the northern and western portions, which may have included the Antelope Valley.

Earle correctly realized that the location of the Vanyume is the key to understanding the ethnogeography of the Antelope Valley. As previously mentioned, Harrington's notes revealed his Kitanemuk informants grouped the languages in the southern Antelope Valley and east to Cajon Pass under the name "Haminat." Dialect differences were noted and conform to the Kitanemuk, Serrano, and Vanyume "language" divisions of earlier research (Earle 1990: 98-99). This would indicate that an emphasis on determining (or despairing over) the ethnographic boundaries between these groups is wasted effort. A more productive approach, Earle argues, is an examination of the chiefs, clans and/or moieties, and *naciones*, or intermediate sociopolitical groups, which seem to have been hierarchical and reflected in inter-village organization (Earle 1990:101).

### **7.0 Field Procedures and Methods**

On November 20, 2017 and March 24, 2022, Scott M. Hudlow (for qualifications see Appendix I) conducted a pedestrian survey of the entire project area. Hudlow surveyed in north/south transects at 5-meter (16 feet) intervals across the entire parcel. All archaeological material more than fifty years of age or earlier encountered during the inventory would have been recorded.

### **8.0 Report of Findings**

No cultural resources were identified.

### **9.0 Management Recommendations**

At the request of David Shamsian, a Phase I Cultural Resource Survey APNs 3005-010-025 and -026, 10<sup>th</sup> Street West and Avenue O, City of Palmdale, California. The Phase I Cultural Resource Survey consisted of a pedestrian survey of the approximate two-acre site and a cultural resource record search.

No cultural resources were identified. **If archaeological resources are encountered during the course of construction, a qualified archaeologist should be consulted for further evaluation.**

**If human remains or potential human remains are observed during construction, work in the vicinity of the remains will cease, and they will be treated in accordance with the provisions of State Health and Safety Code Section 7050.5. The protection of human remains follows California Public Resources Codes, Sections 5097.94, 5097.98, and 5097.99.**

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## Appendix I





**Scott M. Hudlow**  
1405 Sutter Lane  
Bakersfield, California 93309  
(661) 834-9183 (w)

## **Education**

The George Washington University  
M.A. American Studies, 1993  
Specialization in Architectural History  
and Historic Archaeology

University of California, Berkeley  
B.A. History, 1987  
B.A. Anthropology, 1987  
Specialization in Colonial History  
and Historical Archaeology

## **Public Service**

3/94- *Historic Preservation Commission*. City of Bakersfield, Bakersfield, California 93305.

## **Relevant Work Experience**

11/95- *Owner, Sole Proprietorship*. Hudlow Cultural Resource Associates. 1405 Sutter Lane, Bakersfield California 93309. Operate cultural resource management business. Manage contracts, respond to RFP's, bill clients, manage temporary employees. Conduct Phase I cultural resource surveys for private and public clients; including the archaeological or architectural survey, filing of survey forms, historic research, assessing impact and writing reports. Evaluate archaeological sites or historical properties in lieu of their eligibility for the National Register of Historic Places in association with Section 106 and 110 requirements of the National Historic Preservation Act of 1966 and CEQA (California Environmental Quality Act).

Full resume available upon request.



## Appendix II



Steven Quinn  
Native American Heritage Commission  
1550 Harbor Boulevard, Suite 100  
West Sacramento, California 95691  
November 25, 2017

Mr. Quinn,

This letter officially requests a sacred land file search for a Phase I Cultural Resource Survey for a proposed commercial development in the City of Palmdale, California. The project site is as displayed on the Ritter Ridge 7.5-minute quadrangle map. Please note that my office and fax number are the same, (661) 834-9183. Thank you for your assistance in this matter. If any questions arise; do not hesitate to call or email.

Sincerely,

Hudlow Cultural Resource Associates

A handwritten signature in black ink that reads "Scott M. Hudlow". The signature is written in a cursive, slightly slanted style.

Scott M. Hudlow

Enclosures



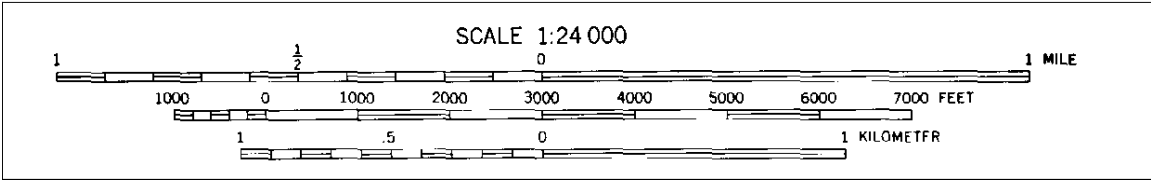
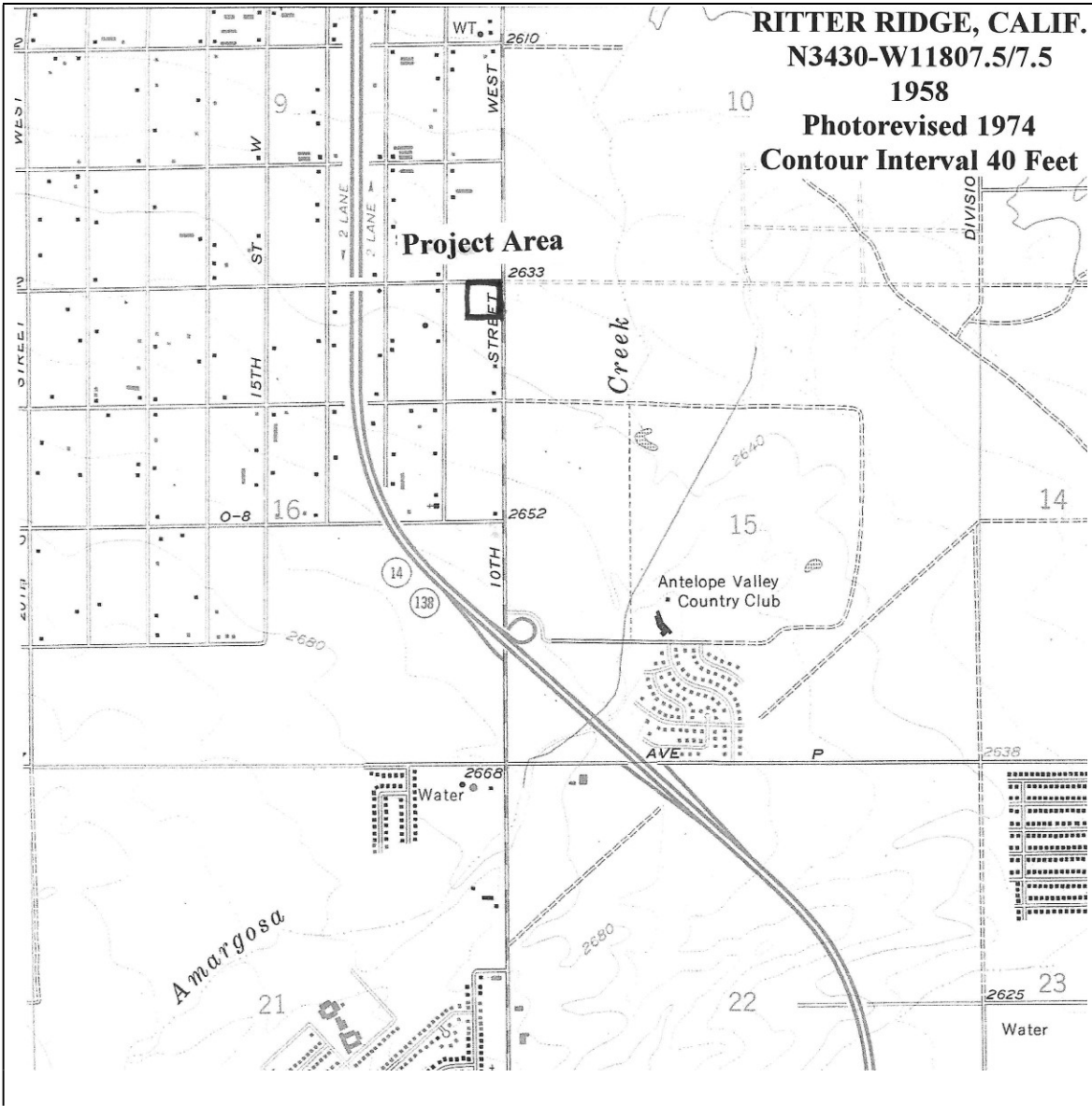
Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission  
1550 Harbor Blvd, Suite 100  
West Sacramento, CA 95691  
916-373-3710  
916-373-5471 – Fax  
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Phase I Cultural Resource Survey for APN<sup>s</sup>  
3005-010-020 & 026  
County: Los Angeles 10th Street W & Ave O  
City of Palmdale, CA  
USGS Quadrangle Name: Ritter Ridge  
Township: 6N Range: 12W Section(s): 16  
Company/Firm/Agency: Hudlow Cultural Resource Associates  
Street Address: 1405 Sutter Lane  
City: Bakersfield, CA Zip: 93309  
Phone: (661) 834-9183  
Fax: \_\_\_\_\_  
Email: shudlow@shcglobal.net

Project Description:



**Figure 1**  
**Project Area Location Map**

**NATIVE AMERICAN HERITAGE COMMISSION**

Environmental and Cultural Department  
1650 Harbor Blvd., Suite 100  
West Sacramento, CA 95691  
(916) 373-3710



November 29, 2017

Scott Hudlow  
Hudlow Cultural Resource Associates

Sent by E-mail: shudlow@sbcglobal.net

RE: Phase I Cultural Resource Survey, City of Palmdale, Los Angeles County

Dear Mr. Hudlow:

A records search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: [steven.quinn@nahc.ca.gov](mailto:steven.quinn@nahc.ca.gov).

Sincerely,

*Steven Quinn*

Steven Quinn  
Staff Services Analyst

**Native American Heritage Commission  
Native American Contact List  
Los Angeles County  
11/29/2017**

**Gabrieleno Band of Mission  
Indians - Kizh Nation**

Andrew Salas, Chairperson  
P.O. Box 393  
Covina, CA, 91723  
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gabrielenoindians@yahoo.com

Gabrieleno

**Morongo Band of Mission  
Indians**

Robert Martin, Chairperson  
12700 Pumarra Rroad  
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Fax: (951) 922-8146

Cahuilla  
Serrano

**Gabrieleno/Tongva San Gabriel  
Band of Mission Indians**

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Gabrieleno

**San Fernando Band of Mission  
Indians**

John Valenzuela, Chairperson  
P.O. Box 221838  
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tsen2u@hotmail.com

Kitanemuk  
Serrano  
Tataviam

**Gabrielino /Tongva Nation**

Sandonne Goad, Chairperson  
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Los Angeles, CA, 90012  
Phone: (951) 807 - 0479  
sgoad@gabrielino-tongva.com

Gabrielino

**San Manuel Band of Mission  
Indians**

Lee Clauss, Director of Cultural  
Resources  
26569 Community Center Drive  
Highland, CA, 92346  
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Fax: (909) 864-3370  
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Serrano

**Gabrielino Tongva Indians of  
California Tribal Council**

Robert Dorame, Chairperson  
P.O. Box 490  
Bellflower, CA, 90707  
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Gabrielino

**Serrano Nation of Mission  
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Serrano

**Gabrielino-Tongva Tribe**

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Gabrielino

**Morongo Band of Mission  
Indians**

Denisa Torres, Cultural Resources  
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dtorres@morongo-nsn.gov

Cahuilla  
Serrano

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 Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Phase I Cultural Resource Survey Project, Los Angeles County.

John Valenzuela, Chairperson  
San Fernando Band of Mission Indians  
P.O. Box 221838  
Newhall, California 91322

December 1, 2017

Mr. Valenzuela,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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If you have any questions, comments, or need additional information, please inform Scott M. Hudlow in writing before December 22, 2017. My business address is below.

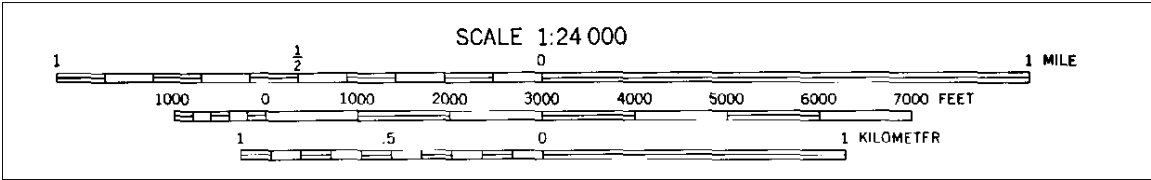
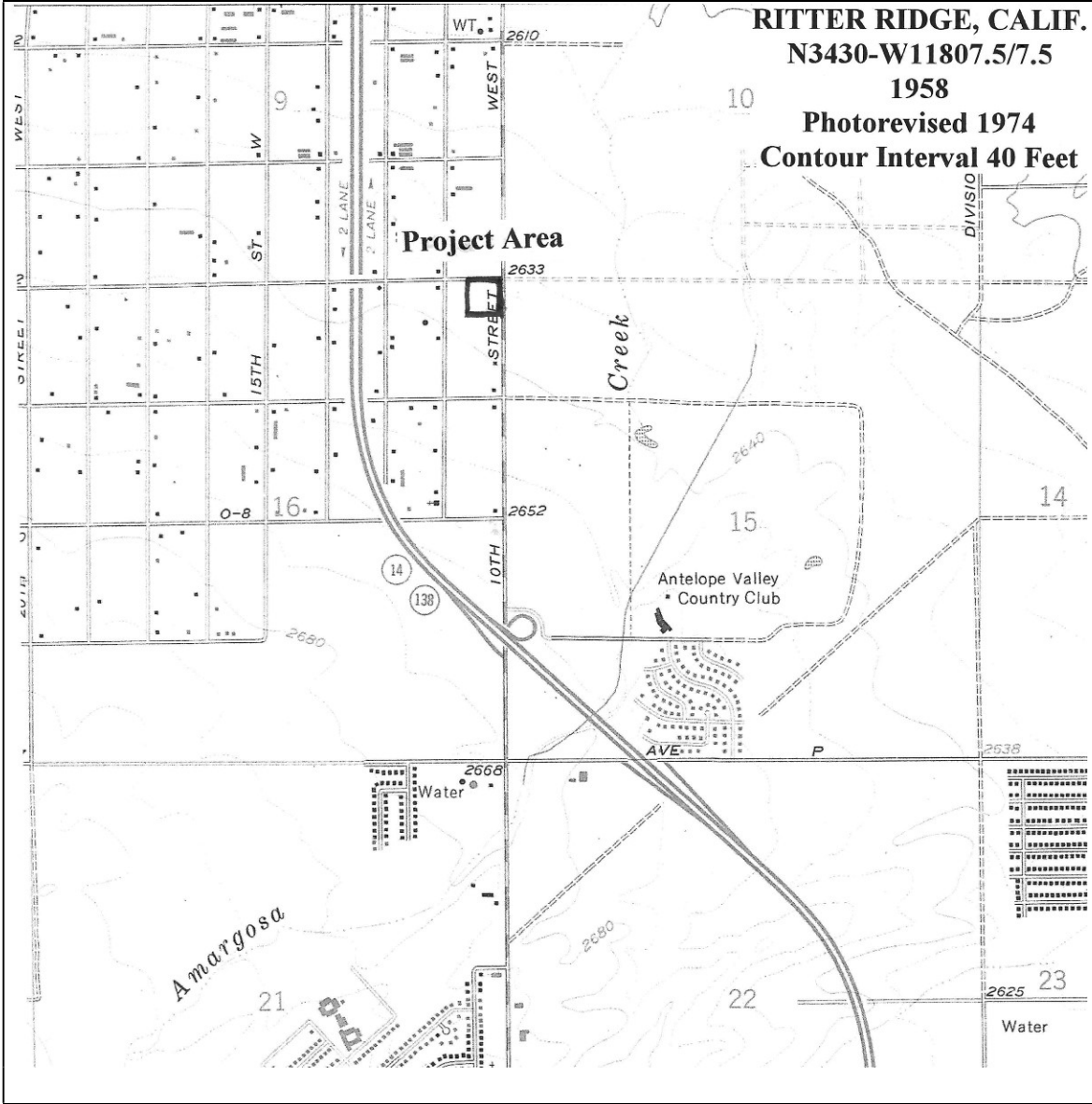
Hudlow Cultural Resource Associates  
1405 Sutter Lane  
Bakersfield, California 93309  
(661) 834-9183  
[shudlow@sbcglobal.net](mailto:shudlow@sbcglobal.net)

Sincerely,

A handwritten signature in black ink that reads "Scott M. Hudlow". The signature is written in a cursive, slightly slanted style.

Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**



Denisa Torres, Cultural Resource Manager  
Morongo Band of Mission Indians  
12700 Pumarra Road  
Banning, California 92220

December 1, 2017

Ms. Torres,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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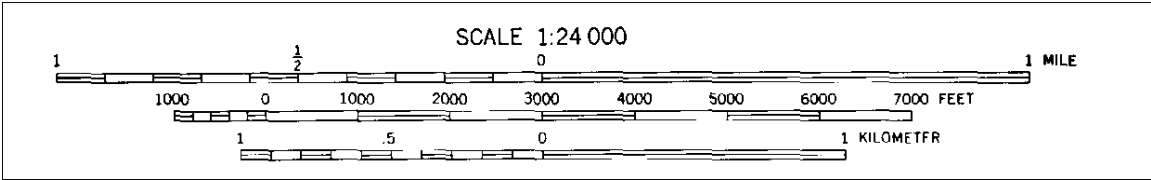
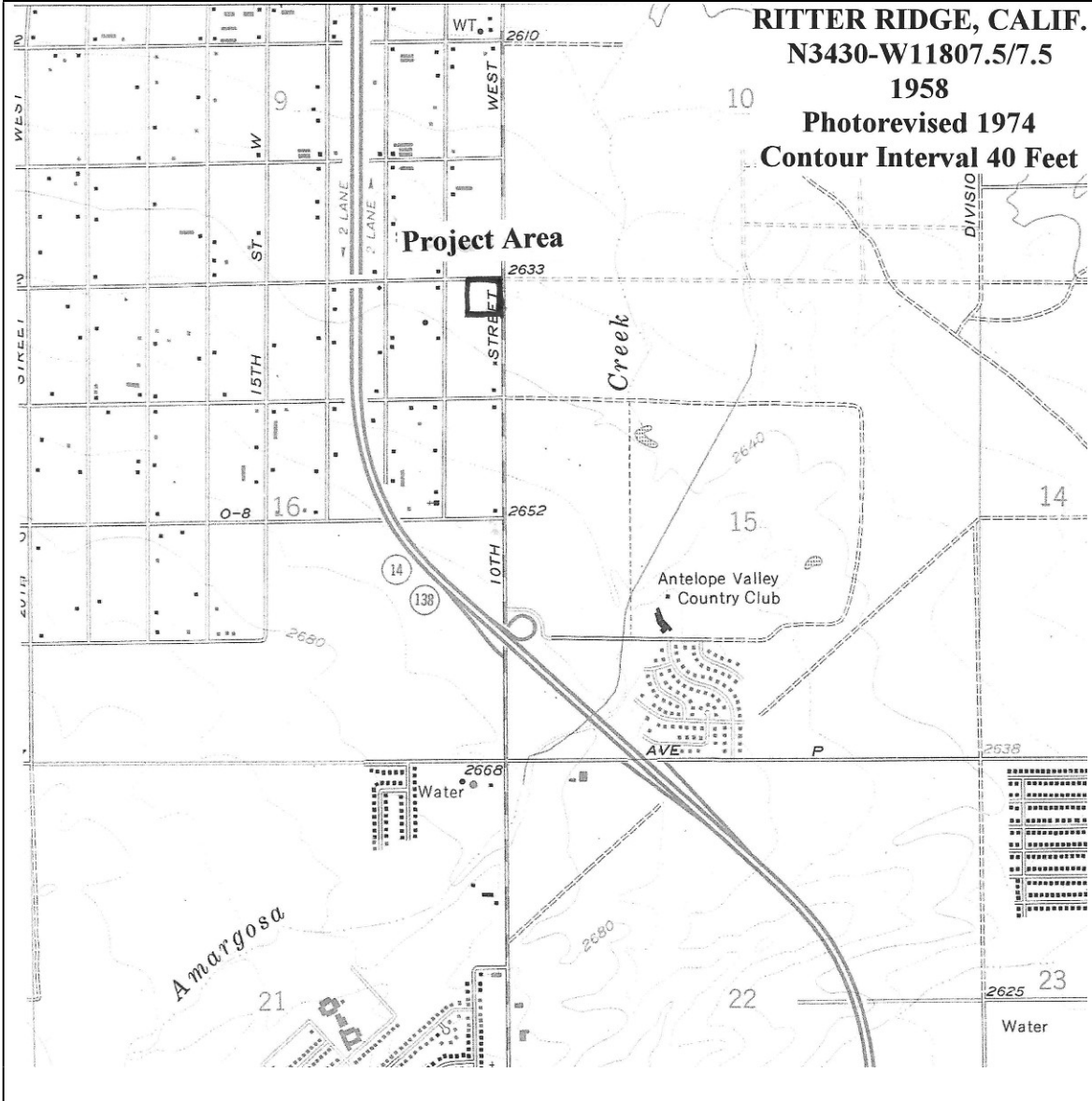
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Robert Martin, Chairperson  
Morongo Band of Mission Indians  
12700 Pumarra Road  
Banning, California 92220

December 1, 2017

Mr. Martin,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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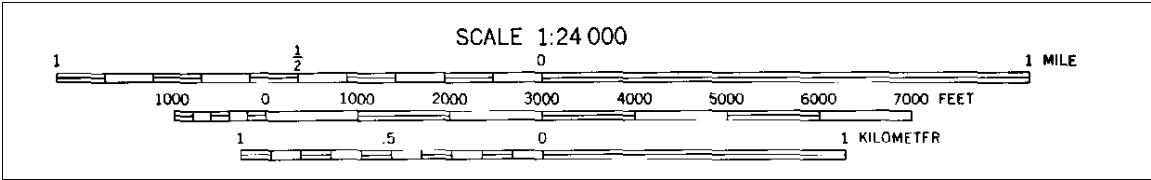
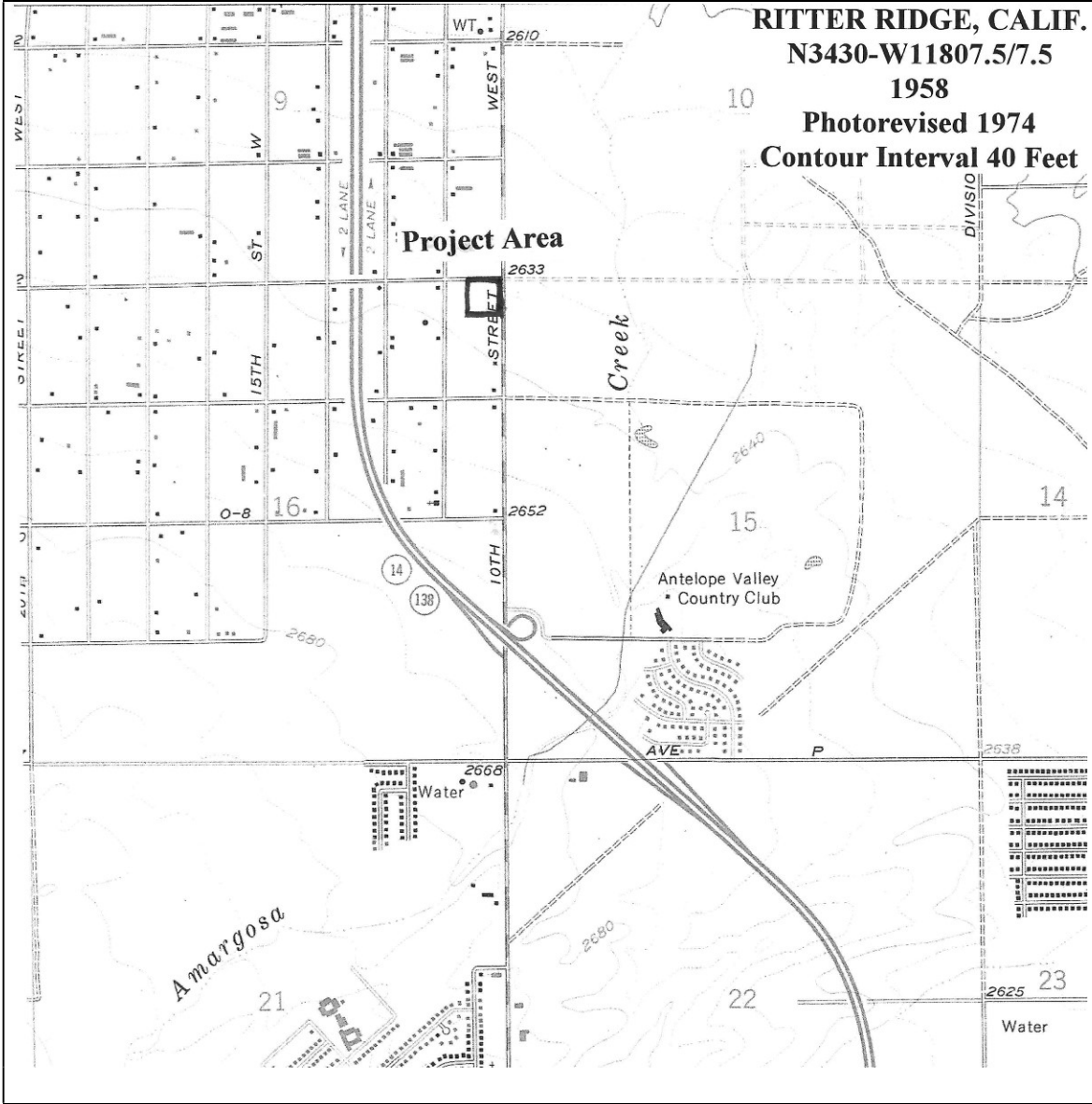
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Lee Clauss, Director of Cultural Resources  
San Manuel Band of Mission Indians  
P. O. Box 58926569 Community Center Drive  
Highland, California 92346

December 1, 2017

Mr. Clauss,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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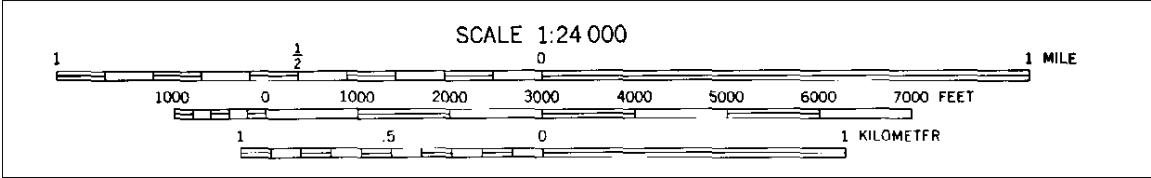
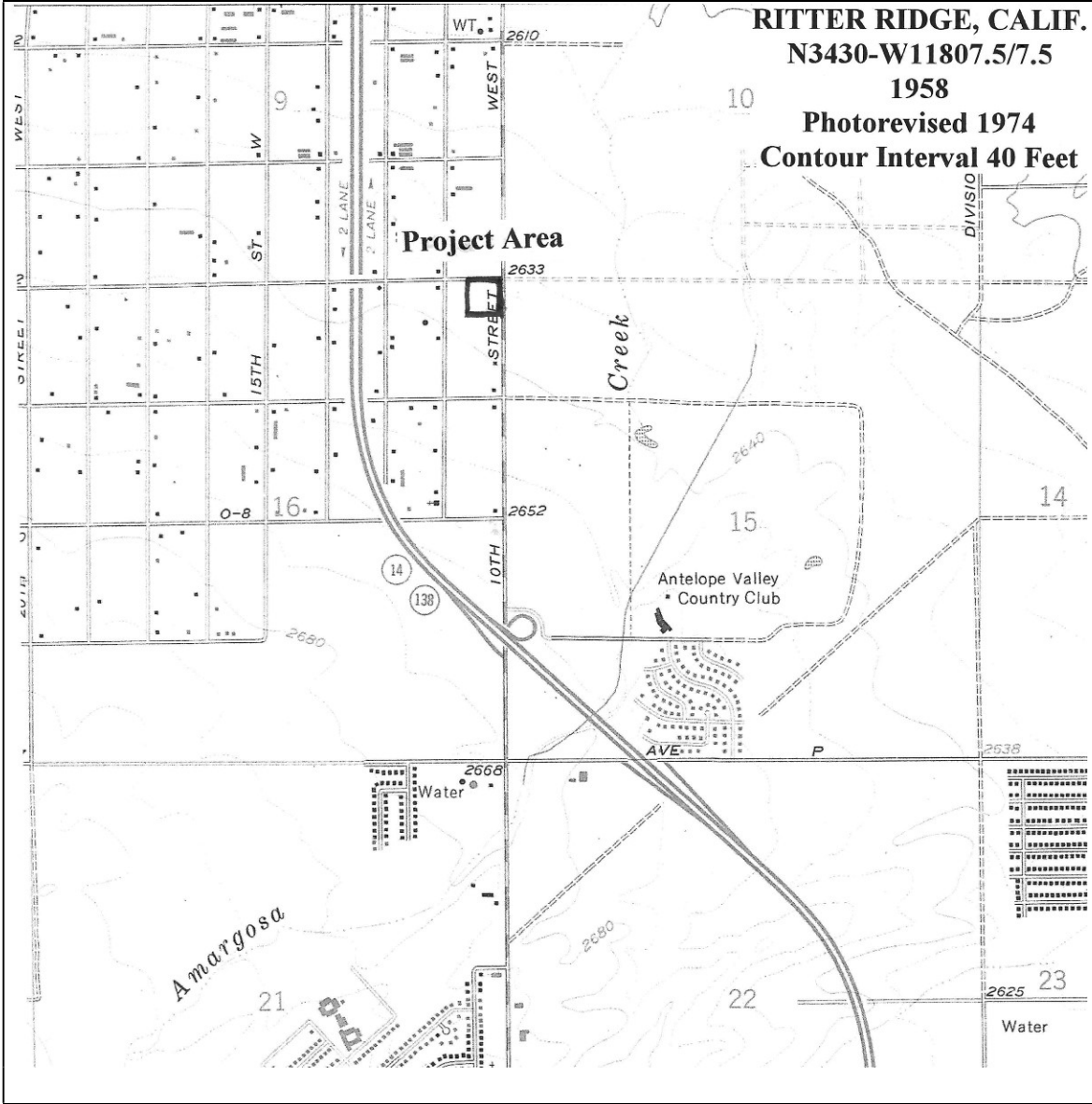
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**



Serrano Nation of Indians  
Goldie Walker  
P.O. Box 343  
Patton, California 92369

December 1, 2017

Ms. Walker,

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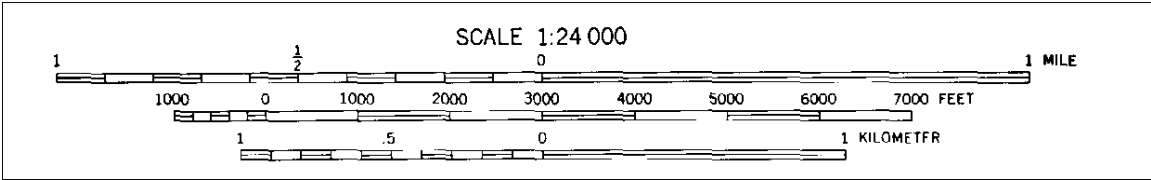
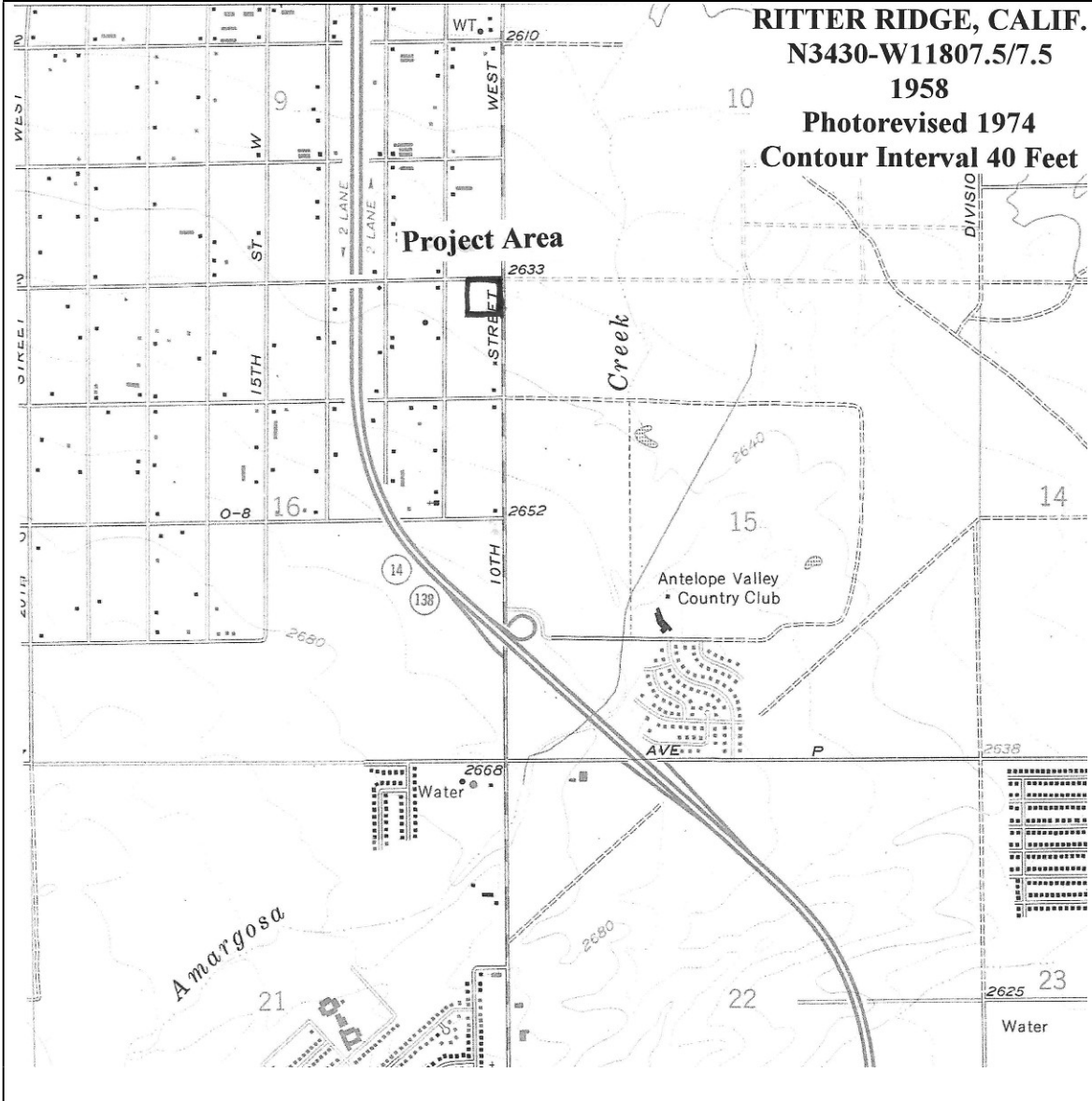
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Gabrieleno Band of Mission Indians-Kizh Nation  
Andrew Sasas  
P.O. Box 393  
Covina, California 91723

December 1, 2017

Mr. Salas,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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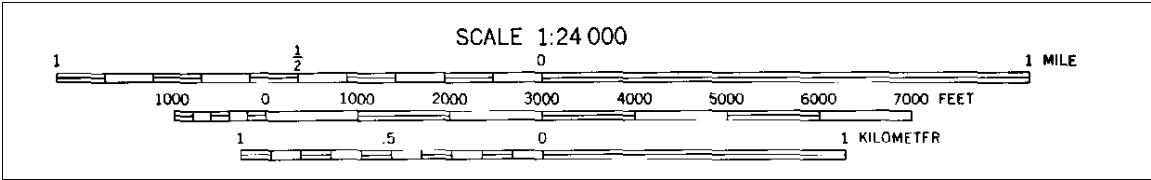
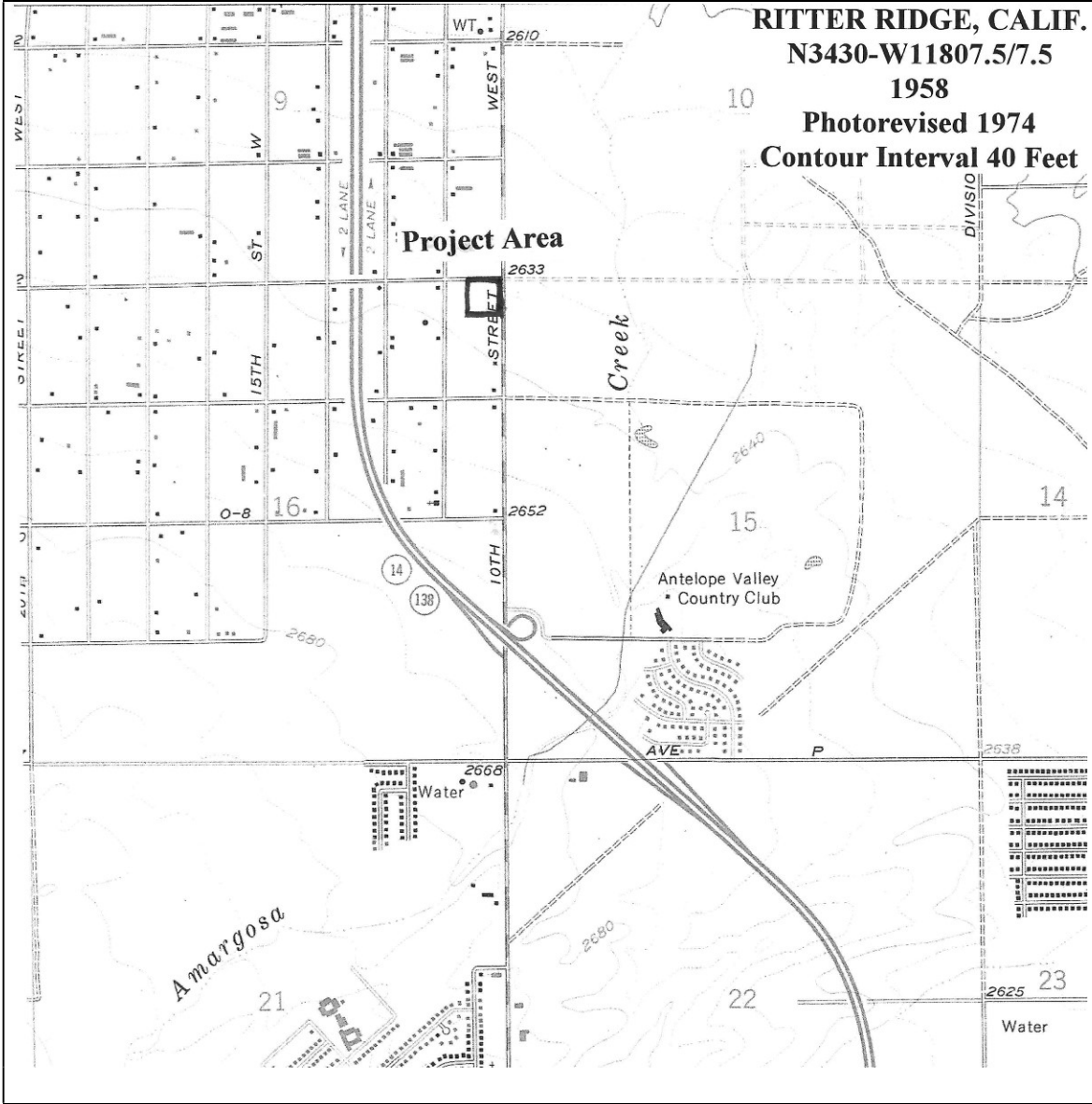
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Gabrieleno/Tongva San Gabriel Band of Mission Indians  
Anthony Morales  
P.O. Box 693  
San Gabriel, California 91723

December 1, 2017

Mr. Morales,

David Shamsian announces his intention to proceed with the planning to build a commercial development in the City of Palmdale, at the corner of 10th Street West and Avenue O. After consultation with the Native American Heritage Commission, the project area is not noted to have Native American cultural resources in close proximity. The archaeological work and reporting was performed in a manner consistent with SHPO guidelines. These guidelines are prescribed in "Instructions for Recording Historical Resources", "Archaeological Resources Management Reports (ARMR) Recommended Contents and Format," and "Guidelines for Archaeological Research Designs".

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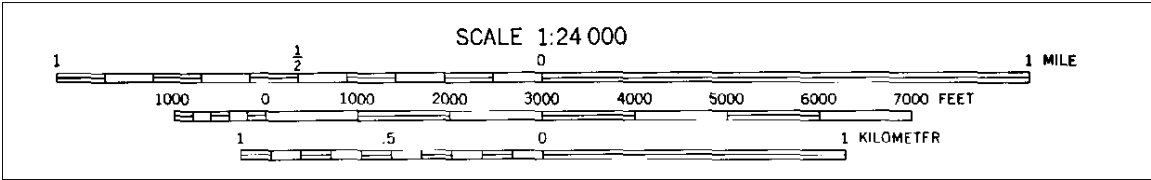
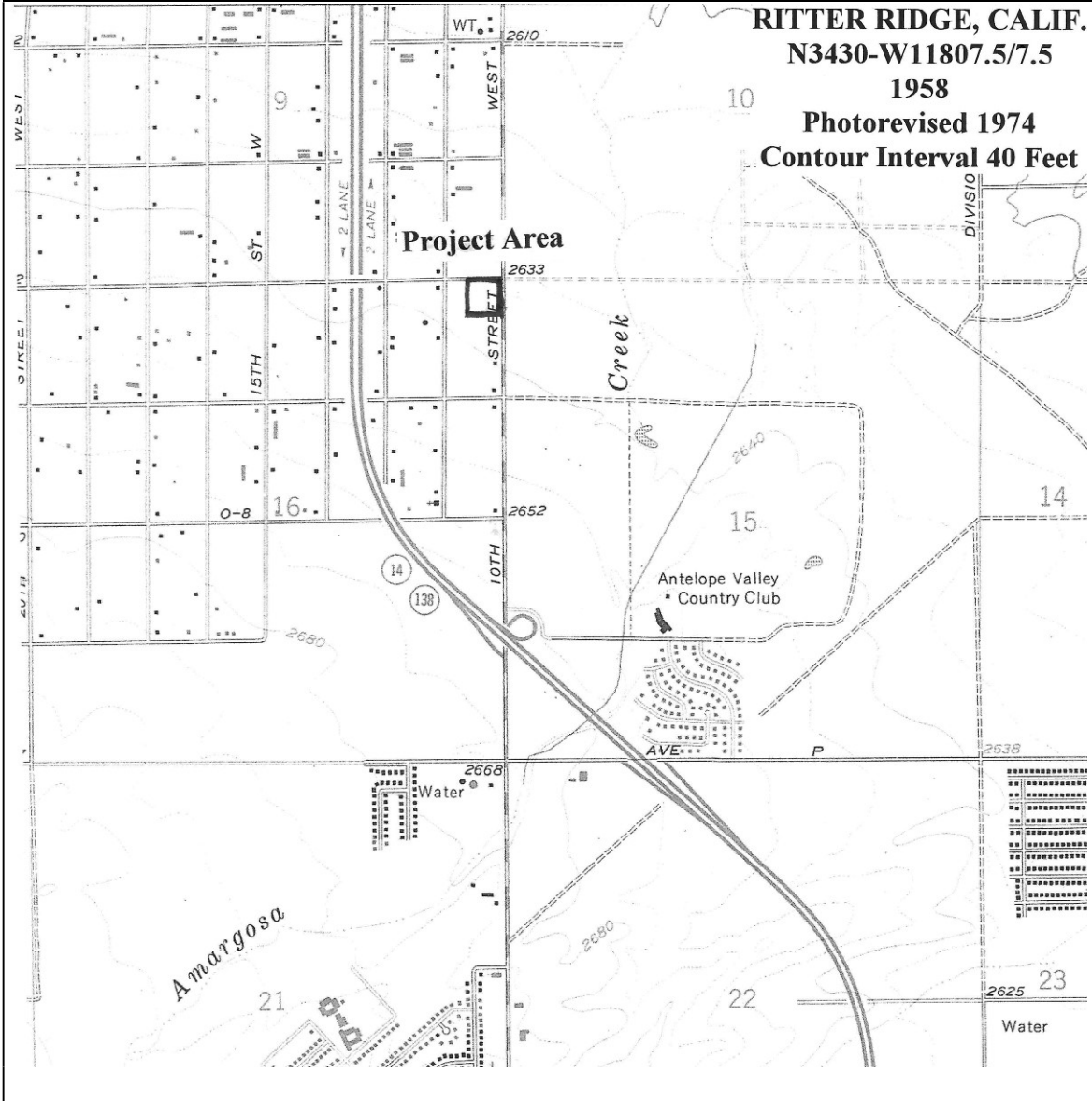
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Gabrielino/Tongva Nation  
Sandonne Goad  
106 ½ Judge John Aiso Street, #231  
Los Angeles, California 90012

December 1, 2017

Mr. Goad,

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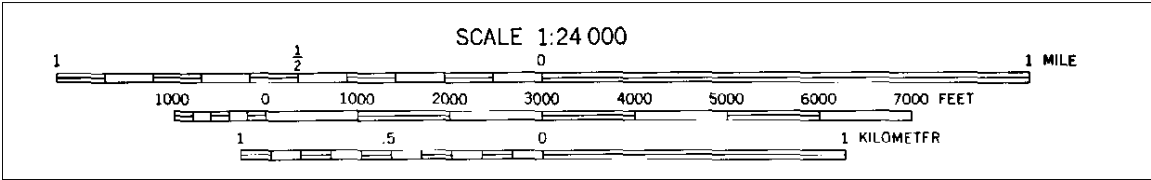
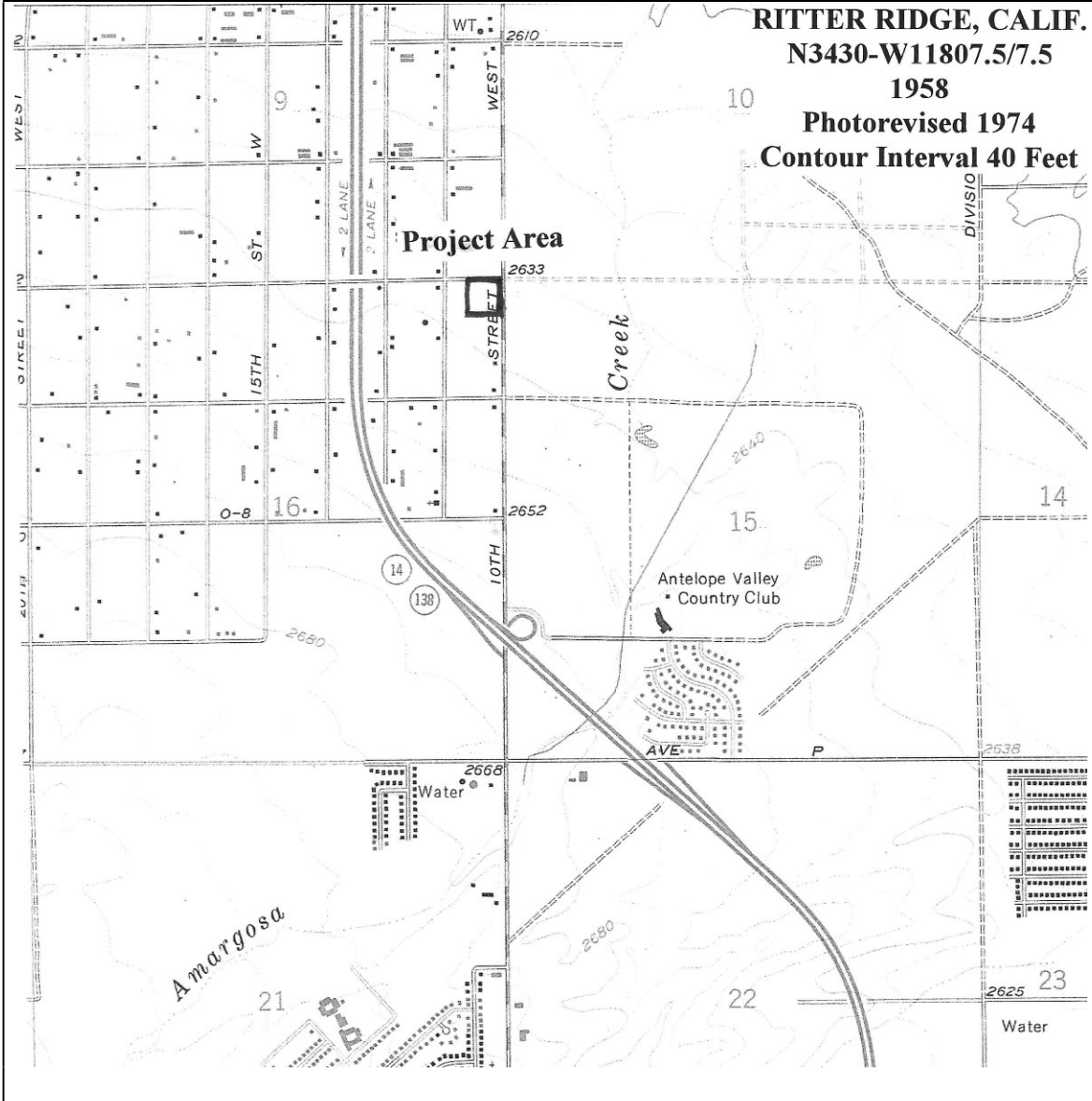
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures





**Project Area Location Map**

Gabrielino Tongva Indians of California Tribal Council  
Robert Dorame  
P.O. Box 490  
Bellflower, California 90707

December 1, 2017

Mr. Dorame,

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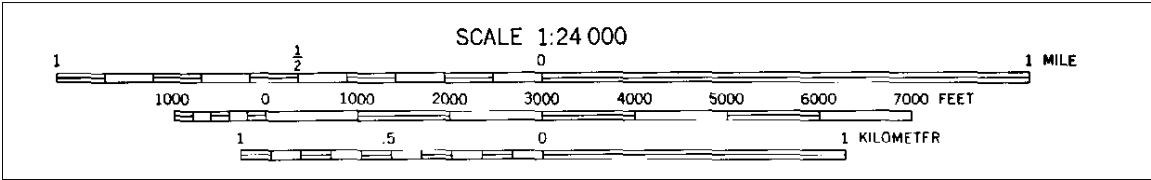
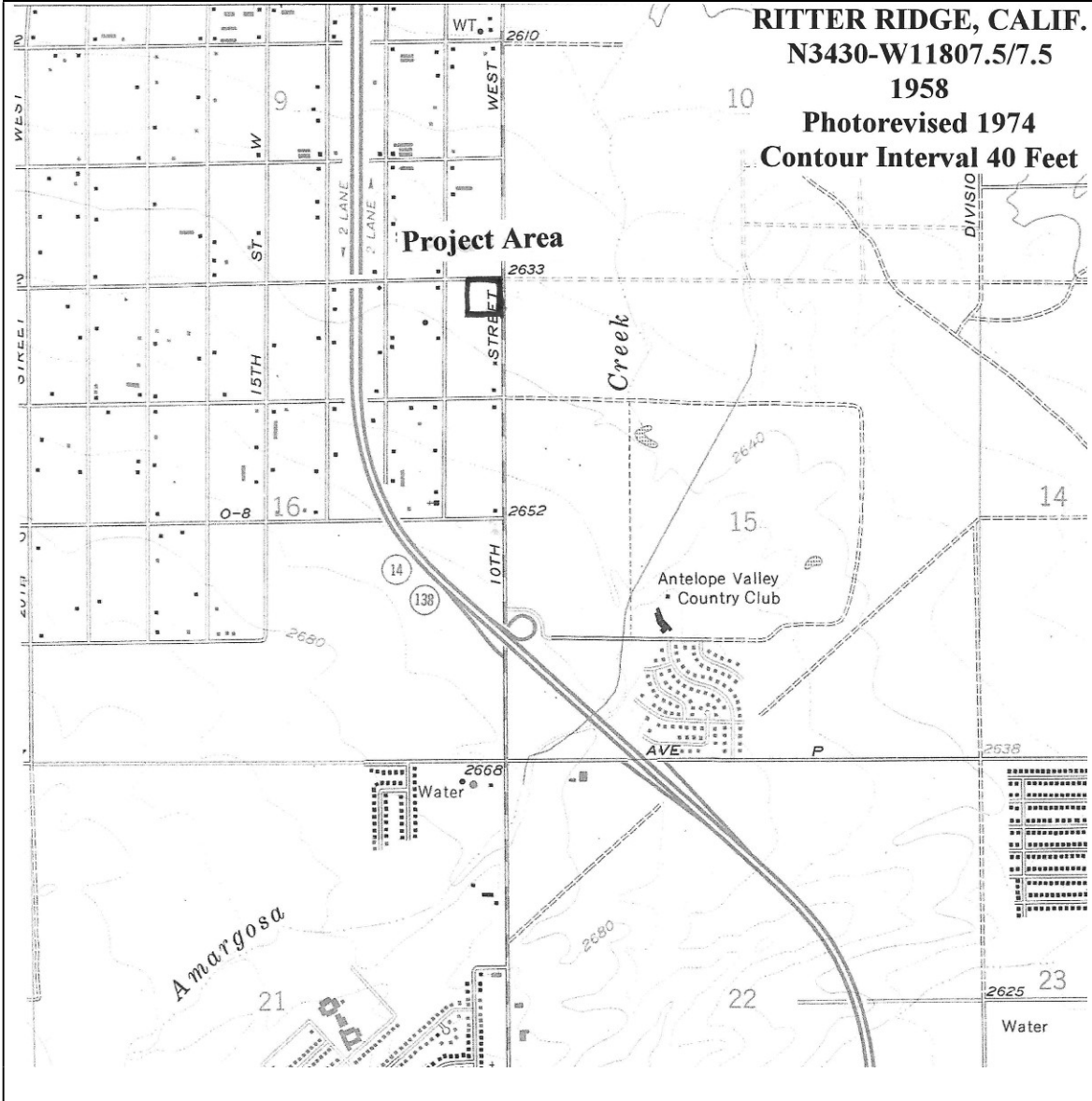
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Scott M. Hudlow  
Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

Gabrieleno Tongva Tribe  
Charles Alvarez  
23454 Vanowen Street  
West Hills, California 91307

December 1, 2017

Mr. Alvarez,

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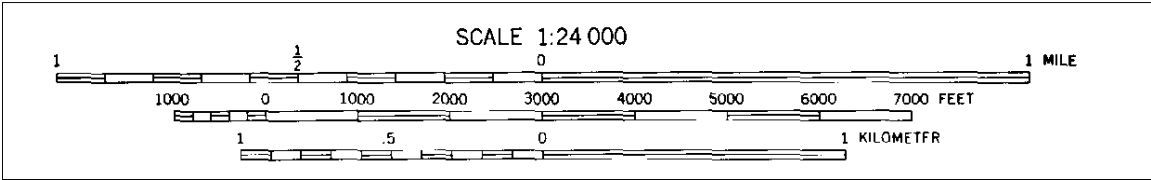
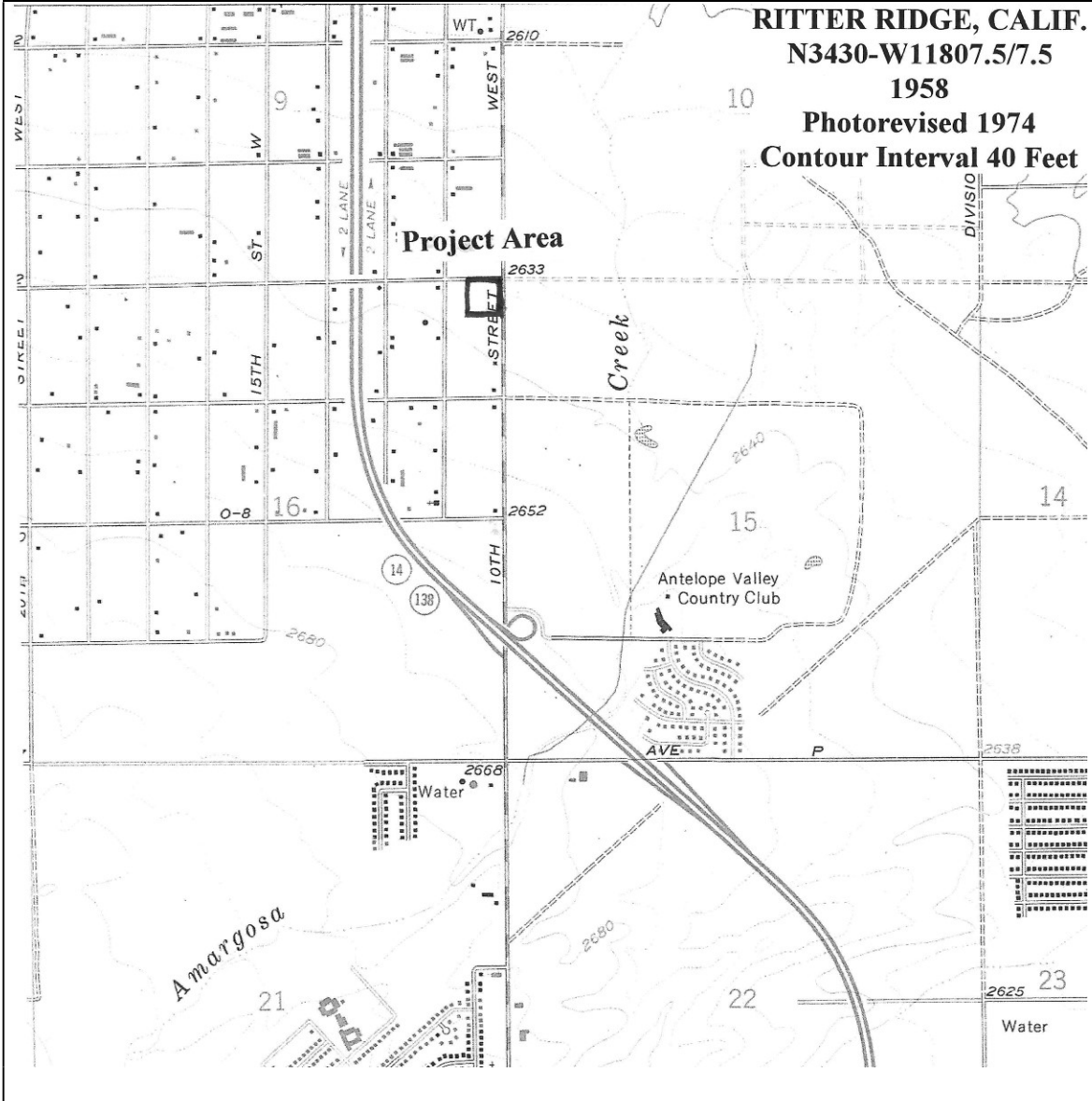
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Hudlow Cultural Resource Associates

enclosures



**Project Area Location Map**

[Jessica Mauck <JMauck@sanmanuel-nsn.gov>](mailto:JMauck@sanmanuel-nsn.gov)

To

['shudlow@sbcglobal.net'](mailto:'shudlow@sbcglobal.net')

Dec 6 at 2:24 PM

Hello Scott,

Thank you for contacting the San Manuel Band of Mission Indians (SMBMI) regarding the above referenced project. SMBMI appreciates the opportunity to review the project documentation, which was received by our Cultural Resources Management Department on 05 December 2017. The proposed project area exists within Serrano ancestral territory and, therefore, is of interest to the Tribe.

The exact purpose of your letter was unclear. We often get information requests from CRM firms who are completing reports for developers, but this letter looks more like an attempt to notify and consult with SMBMI for a proposed project. Please be aware that SMBMI only considers a project “active” once a notice has been sent out by the lead agency, and we consult only with other government entities under CEQA, as well as SB18, as SMBMI is a sovereign government. In addition, please also note that the following will be requested when SMBMI consults with the lead agency:

1. A records search of the Sacred Lands Files managed by the CA Native American Heritage Commission (NAHC) and a site file and associated literature search at the appropriate California Historical Resources Information System Information Center (CHRIS) to identify any and all recorded cultural resources within a 1-mile radius of the proposed project location(s), as well as general background research using GLO maps, Sanborn maps, historical atlases, city and state records, and other historical documents;
2. Additional maps/illustrations be provided, specifically including:
  - a. an aerial map;
  - b. a map indicating the search radius of the background research, as well as the locations where previous studies were conducted and where known historic resources are located;
  - c. photographs of the proposed project area;
  - d. engineering/design plans for the proposed project, especially plans indicating where ground-disturbing activities will occur and to what horizontal and vertical extent.
3. A Phase I archaeological investigation of the totality (100%) of the proposed project’s area of potential effect (APE) via the employ of a number of methods, including pedestrian survey that employs a transect interval of no more than 10 meters, shovel test

probes, remote sensing, and/or deep testing via controlled units or trenching of appropriate landscapes. The use of specific field methods and techniques must be justifiable and dependent upon the type and amount of ground cover present (visibility), the topographic setting (degree of slope, proximity to water, etc.), past land use (degree of prior disturbance), and probability for encountering previously undocumented resources during the proposed project (low, moderate, high probability). We strongly recommend that visibility must equal 50% or greater of the ground surface area to use pedestrian survey/reconnaissance only. Areas that have not been disturbed in the past and/or high probability areas must be explored using sub-surface testing methods in addition to pedestrian survey. Additionally, we ask that there be no collection of artifacts or excavation of features during any Phase I archaeological survey.

The provision of this information will assist San Manuel Band of Mission Indians in ascertaining how SMBMI will consult under CEQA and/or SB18 with the lead agency. If you should have any further questions with regard to this matter, please do not hesitate to contact me at your convenience, as I will be the Point of Contact (POC) for SMBMI with respect to this project.

Respectfully,

**Jessica Mauck**

CULTURAL RESOURCES ANALYST

O: (909) 864-8933 x3249

M: (909) 725-9054

26569 Community Center Drive, Highland California 92346

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination or copying of this communication is strictly prohibited. If you have received this electronic transmission in error, please delete it from your system without copying it and notify the sender by reply e-mail so that the email address record can be corrected.  
Thank You